Towards incorporating anamorphic fungi in a natural classification – checklist and notes for 2010

Hyde KD[1,2*], McKenzie EHC[3] and KoKo TW[1]

[1]School of Mae Fah Luang University, 333 M. 1. T. Tasud Muang District, Chiang Rai 57100, Thailand.
[2]Botany and Microbiology Department, College of Science, King Saud University, Riyadh, Saudi Arabia.
[3]Manaaki Whenua Landcare Research, Private Bag 92170, Auckland, New Zealand.

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A complilation of anamorphic names for both *Ascomycota* and *Basidiomycota* is provided which compises 2873 genera. The genera are listed against a backbone of teleomorphic relationships where known. The study reveals that 699 genera and 94 anamorph-like genera are linked to teleomorphic genera names, 447 genera (one anamorph-like genus) are linked to teleomorph families, orders or classes, while for more than 1728 (60.15%) genera no teleomorph link is known.

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*Corresponding author: Hyde KD – e-mail – kdhyde3@gmail.com

Introduction

The purpose of the present paper is to collate the knowledge of anamorphic fungi in relationship to their teleomorphic states. It attempts to classify the anamorphic genera in a natural biological framework for the *Ascomycota* based on the *Outline of Ascomycota* 2009 (Lumbsch & Huhndorf 2010) and for the *Basidiomycota* based on Kirk et al. (2008). The present paper has used data from the *Dictionary of the Fungi* (Kirk et al. 2008), *Index Fungorum* (http://www.indexfungorum.org/names/Names.asp), *Species Fungorum* (http://www.speciesfungorum.org/Names/Names.asp) and *Index of Fungi* (Anon. 2009–2010) as well as literature published in 2009 and 2010.

There is now debate in the systematics community to place one name on a fungus species as opposed to the present system (especially in *Ascomycota*) of naming both sexual and asexual morphs (Samuels et al. 2009). Also, as more and more strains of anamorphic genera are sequenced (eg. Shenoy et al. 2010), these genera will be classified in families, orders and classes of *Ascomycota* and *Basidiomycota*. This will result in more and more anamorphic states being described and illustrated without being given formal names and therefore it is important to have a forum where anamorphic data can be brought to the attention of researchers. It is hoped that this compilation will facilitate the move towards *one fungus one name* as advocated by many mycologists (Shenoy et al. 2007, 2010). By placing all anamorphic genera against the backbone classification of the sexual genera it will be possible to establish 1) what are the anamorphs of various species, genera, families or orders, 2) which genera have no information, 3) which are the older or more commonly used names for each genus, and 4) illustrate the redundancy of the dual classification system.

This compilation also provides a single place where anamorph connections can be accessed and critically scrutinized so that a stable and reliable system can be developed

based on published data. We do not claim that this compilation is complete or definitive; however, it provides a forum for displaying data and can be added to or changed as more data becomes available or errors are discovered. In future issues we will explore various connections and provide more data.

In the long term it will be desirable if *Myconet* (http://www.fieldmuseum.org/myconet) is merged with this document, however, this should occur at some time in the future, when more data is available.

Material and methods

The overall scheme for the classification of the anamorphic fungi follows the *Outline of Ascomycota 2009* (Lumbsch & Huhndorf 2010), with additional data on anamorphic *Basidiomycota* from Kirk et al. (2008). This scheme is chosen as the schemes in the *Dictionary of the Fungi*, *Index Fungorum*, and *MycoBank* differ to a greater or lesser extent and it was felt wise to follow what the authors consider is an admirable attempt to keep abreast of the current literarure as is routinely carried out in the *Outline of Ascomycota*. This compilation also annotates changes made in the form of notes on anamorphic fungi (marked with an asterisk after the entry, with notes in the later "Notes" section) so that changes can easily be followed; this is not always true of the available databases.

Anamorphic genera or '-like' genera are listed in bold under the appropriate fungal classification and the link to a teleomorph genus given where found. Dubious genera are excluded but can be added if they are later found to be good genera. Fossil fungi are also excluded as it would be impossible with present techniques available to provide a natural classification for them. A question mark before the entry means that its placement in that family or order is not fully established and generally follows Lumbsch & Huhndorf (2010). A question mark before anamorph means it is not clear that this is the anamorph of this genus, although there are many cases without a question mark where the link has not equivocally been proven. An asterisk (*) following the names indicates an entry in the "Notes" section.

In many genus records in *Index Fungorum* the species is linked to more than one anamorphic genus. Such records can be located by searching the genus throughout the list for repeat entries. The synonyms of genera are not listed as they can be easily found in *Index Fungorum*.

We encourage colleagues to inform us of any missing entries, new data or misunderstandings, which will be updated in future compilations. We would also invite experts of specific groups to contribute to future compilations on their specific group(s) of interest and encourage reviews or illustrated accounts of families, orders or other groups relating to teleomorph and anamorph links. Reviews of anamorphic genera with sections or series, such as *Aspergillus*, *Penicillium* and *Verticillium*, the powdery mildews, many of the yeasts and yeast-like genera and the anamorphic smuts and rusts are particularly needed. Similarly the lichenized ascomycete anamorphic states are poorly documented.

As there is a move towards using one name for both the sexual and asexual states of a fungus we also encourage authors to submit articles or opinions concerning the use of one name. This might be in the form of a general critic, arguments for or against using one name, or an article that specifically addresses an individual group or genus with arguments for adopting the anamorph, teleomorph or both names.

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, Sugiy., Hamam. & Komag. 1987

Taphrinaceae Gäum.
Lalaria R.T. Moore 1990, anamorphic *Taphrina* Fr. 1815

Subphylum *SACHAROMYCOTINA* O.E. Erikss. & Winka

Class *Saccharomycetes* O.E. Erikss. & Winka
Saccharomycetales Kudrjanzev

Dipodascaceae Engl. & E. Gilg
- ?*Candida* Berkhout 1923, anamorphic *Sporopachydermia* Rodr. Mir. 1978
- *Galactomyces* Redhead & Malloch 1977, anamorphic *Dipodascus* Lagerh. 1892
- *Geotrichum* Link 1809, anamorphic *Dipodascus* Lagerh. 1892
- *Geotrichum*-like, anamorphic *Basidioascus* Matsush. 2003
- *Saprochaete* Coker & Shanor 1939, anamorphic *Magnusiomyces* Zender 1926

Endomycetaceae J. Schröt.
- *Fusidium* Link 1809, possibly anamorphic *Ascocephalophora* K. Matsush. & Matsush. 1995

Lipomycetaceae E.K. Novák & Zsolt
- *Myxozyma* Van der Walt, Weijman & Arx 1981

Metschnikowiaceae T. Kamienski
- *Candida* Berkhout 1923, anamorphic *Clavispora* Rodr. Mir. 1979 and *Metschnikowia* T. Kamienski 1899

Pichiaceae Zender
- *Brettanomyces* N.H. Claussen ex Custers 1940, anamorphic *Dekkera* Van der Walt 1964
- *Eeniella* M.T. Sm., Bat. Vegte & Scheffers 1981, anamorphic *Dekkera* Van der Walt
- *Enantiothamnus* Pinoy 1911
- *Hyphopichia* Arx & Van der Walt 1976

Saccharomycetaceae G. Winter
- *Candida* Berkhout 1923, ?anamorphic *Ogataea* Y. Yamada, K. Maeda & Mikata 1994, *Lodderomyces* Van der Walt 1966 and *Spathaspora* N.H. Nguyen, S.O. Suh & M. Blackw. 2006

Saccharomycodaceae Kudrjanzev
- *Candida* Berkhout 1923, anamorphic *Lodderomyces* Van der Walt 1966 and *Spathaspora* N.H. Nguyen, S.O. Suh & M. Blackw. 2006
- ?*Kloeckera* Janke 1923, anamorphic *Hanseniaspora* Zikes 1911

Trichomonascaceae Kurtzman & Robnett
- *Blastobotrys* Klopotek 1967, anamorphic *Trichomonascus* H.S. Jacks. 1948
- *Candida* Berkhout 1923, ?anamorphic *Zygoascus* M.T. Sm. 1986

Saccharomycetales, genera *incertae sedis*
- *Aciculoconidium* D.S. King & S.C. Jong 1976
- *Botryozyma* Shann & M.T. Sm. 1992, anamorphic *Ascobotryozyma* J. Kerrigan, M.T. Sm. & J.D. Rogers 2001
- *Candida* Berkhout 1923, anamorphic *Starmerella* C.A. Rosa & Lachance 1998
- *Cicadomyces* Šulc 1911
- *Macrorhabdus* Tomasz., Logan, Snowden, Kurtzman & Phalen 2003
- *Oosporidium* Stautz 1931
- *Pseudomycoderma* H. Will 1916
- *Schizoblastosporion* Cif. 1930
- *Trigonopsis* Schachner 1929
- *Saccharomycetes*, genera *incertae sedis*
- *Selenotila* Lagerh. 1892
- *Selenozyma* Yarrow 1977

Subphylum *PEZIZOMYCOTINA* O.E. Erikss. & Winka

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

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

Arthoniaceae Reichenb. ex Reichenb.
- *Helicobolomyces* Matzer 1995, anamorphic *Arthonia* Ach. 1806
- *Septocyta* Petr. 1927, ?anamorphic *Arthonia* Ach. 1806
- *Subhysteropycnis* Wedin & Hafellner 1998, anamorphic *Arthonia* Ach. 1806

Roccellaceae Chevall.
- *Sporhaplus* H.B.P. Upadhyay 1964, anamorphic *Mazosia* A. Massal 1854

Class *Dothideomycetes* *sensu* O.E. Erikss. & Winka

Subclass *Dothideomycetidae* P.M. Kirk, P.F. Cannon, J.C. David & J.A. Stalpers ex C.L. Schoch, Spatafora, Crous & Shoemaker

Capnodiales Woron.

Antennulariellaceae Woron.

Antennariella Bat. & Cif. 1963*, anamorphic *Antennulariella* Woron. 1915*
Capnodendron S. Hughes 1976, anamorphic *Antennulariella* Woron. 1915
Capnofrasera S. Hughes 2003
Heteroconium Petr. 1949, anamorphic *Antennulariella* Woron. 1915

Capnodiaceae (Sacc.) Höhn. ex Theiss.
Acanthorus Bat. & Cavalc. 1967
Antennariella Bat. & Cif. 1963*
Apiosporium Kunze 1817
?*Ciferrioxyphium* Bat. & H. Maia 1963, anamorphic *Aithaloderma* P. Syd.
Conidiocarpus Woron. 1927, ?anamorphic *Phragmocapnias* Theiss. & Syd. 1918 and *Scorias* Fr. 1825
Conidioxyphium Bat. & Cif. 1963*
Fumagospora G. Arnaud 1911*, anamorphic *Capnodium* Mont. 1848
Fumiglobus D.R. Reynolds & G.S. Gilbert 2006
?*Leptoxyphium* Speg. 1918*, anamorphic *Aithaloderma* P. Syd. 1913
Microxiphium (Harv. ex Berk. & Desm.) Thüm. 1879 (as *Microxyphium*)*
?*Mycogelidium* W.Y. Zhuang 2007*
Phaeoxyphiella Bat. & Cif. 1963, anamorphic *Capnodium* Mont. 1848
Polychaetella Speg. 1918, anamorphic *Capnodium* Mont. 1848
Scolecoxyphium Cif. & Bat. 1956, anamorphic *Capnodium* Mont. 1848 and *Scorias* Fr. 1825
Tripospermum Speg. 1918, anamorphic *Phragmocapnias* Theiss. & Syd. 1918 and *Trichomerium* Speg. 1918

Coccodiniaceae Höhn. ex O.E. Erikss.
Bisbyopeltis Bat. & A.F. Vital 1957
Microxiphium (Harv. ex Berk. & Desm.) Thüm. 1879*, anamorphic *Dennisiella* Bat. & Cif. 1962

Davidiellaceae C.L. Schoch, Spatafora, Crous & Shoemaker
Cladosporium Link 1816, anamorphic *Davidiella* Crous & U. Braun 2003*
Dichocladosporium K. Schub., U. Braun & Crous 2007
Graphiopsis Trail 1889*, anamorphic *Davidiella* Crous & U. Braun 2003
Hoornsmania Crous 2007
Rachicladosporium Crous, U. Braun & C.F. Hill 2007*
Toxicocladosporium Crous & U. Braun 2007*
Verrucocladosporium K. Schub., Aptroot & Crous 2007*

Dissoconiaceae Crous & de Hoog*
Dissoconium de Hoog, Oorschot & Hijwegen 1983*
Ramichloridium Stahel ex de Hoog 1977*

Metacapnodiaceae S. Hughes & Corlett
Capnobotrys S. Hughes 1970, anamorphic *Metacapnodium* Speg. 1918
Capnocybe S. Hughes 1966
Capnophialophora S. Hughes 1966, anamorphic *Metacapnodium* Speg. 1918
Capnosporium S. Hughes 1976, anamorphic *Metacapnodium* Speg. 1918
Hormiokrypsis Bat. & Nascim. 1957, anamorphic *Metacapnodium* Speg. 1918

Mycosphaerellaceae Lindau
Anguillosporella U. Braun 1995
Asperisporium Maubl. 1913
Asteromella-like, anamorphic *Gillotia* Sacc. & Trotter 1913
Cercospora Fresen. 1863*
Cercosporella Sacc. 1880*
Clypeispora A.W. Ramaley 1991, ?anamorphic *Mycosphaerella* Johanson 1884
Coniothryium-like, anamorphic *Bruneosphaerella* Crous 2009*
Deightoniella S. Hughes 1952
Didymochora Höhn. 1918, anamorphic *Euryachora* Fuckel 1870
Distocercospora N. Pons & B. Sutton 1988
Dothistroma Hulbary 1941*
Elletevera Deighton 1969
Floricola Kohlm. & Volkm.-Kohlm. 2000
Fusicladiella Höhn. 1919, anamorphic *Mycosphaerella* Johanson 1884
Laocoön J.C. David 1997
Lecanosticta Syd. 1922*
Microcyclospora Jana Frank, Schroers & Crous 2010*
Microcyclosporella Jana Frank, Schroers & Crous 2010*

Miuraea Hara 1948*, anamorphic *Mycosphaerella* Johanson 1884
Parastenella J.C. David 1991*
Passalora Fr. 1849*, anamorphic *Mycosphaerella* Johanson 1884
Penidiella Crous & U. Braun 2007*
Periconiella Sacc. 1885*, ?anamorphic *Allosoma* Syd. 1926
Phacellium Bonord. 1860, anamorphic *Mycosphaerella* Johanson 1884
Phaeophleospora Rangel 1916*
Phloeospora Wallr. 1833*, anamorphic *Mycosphaerella* Johanson 1884
Placosphaeria-like, anamorphic *Euryachora* Fuckel 1870
Polythrincium Kunze 1817*, anamorphic *Cymadothea* F.A. Wolf 1935
Pseudocercospora Speg. 1910*
Pseudocercosporella Deighton 1973*, anamorphic *Mycosphaerella* Johanson 1884
Pseudocercosporidium Deighton 1973
Quasiphloeospora B. Sutton, Crous & Shamoun 1996
Ramichloridium Stahel ex de Hoog 1977*
Ramularia Unger 1833*, anamorphic *Mycosphaerella* Johanson 1884*
Ramularia-like, anamorphic *Melanodothis* R.H. Arnold 1972
Ramulariopsis Speg. 1910, anamorphic *Mycosphaerella* Johanson 1884
Ramulispora Miura 1920*
Rhabdospora (Durieu & Mont. ex Sacc.) Sacc. 1884
Rhexocercosporidium U. Braun 1994
Semipseudocercospora J.M. Yen 1983
Septoria Sacc. 1884*
Sirosporium Bubák & Serebrian. 1912
Sonderhenia H.J. Swart & J. Walker 1988*
Stenella Syd. 1930, anamorphic *Mycosphaerella* Johanson 1884*
Stenellopsis B. Huguenin 1966
Thedgonia-like*
Trochophora R.T. Moore 1955*
Verrucisporota D.E. Shaw & Alcorn 1993*
Zasmidium Fr. 1849*

Capnodiales, genera *incertae sedis*
Capnocheirides J.L. Crane & S. Hughes 1982
Elasticomyces Zucconi & Selbmann 2008
Heptaster Cif., Bat. & Nascim. 1956
Hormonema-like, anamorphic *Xenomeris* Syd. 1924
Houjia G.Y. Sun & Crous 2010*
Micropustulomyces R.W. Barreto 1995
Phaeotheca Sigler, Tsuneda & J.W. Carmich. 1981
Pseudovirgaria H.D. Shin, U. Braun, Arzanlou & Crous 2007
Racodium Pers. 1794*
Recurvomyces Selbmann & de Hoog 2008
Scolecostigmina U. Braun 1999
Sporidesmajora Batzer & Crous 2010*

Dothideales Lindau
Dothideaceae Chevall.
Lecanosticta Syd. 1922, anamorphic *Scirrhia* Nitschke ex Fuckel 1870
Podoplaconema Petr. 1921, anamorphic *Omphalospora* Theiss. & Syd. 1915

Dothioraceae Theiss. & H. Syd.
Aureobasidium Viala & G. Boyer 1891*, anamorphic *Columnosphaeria* Munk 1953 and *Saccothecium* Fr. 1836
Dothichiza Lib. ex Roum. 1880, anamorphic *Dothiora* Fr. 1849 and *Sydowia* Bres. 1895
Hormonema Lagerb. & Melin 1927, anamorphic *Dothiora* Fr. 1849 and *Sydowia* Bres. 1895*
Japonia Höhn. 1909, anamorphic *Yoshinagaia* Henn. 1904
Kabatina R. Schneid. & Arx 1966
?*Rhizosphaera* L. Mangin & Har. 1907, anamorphic *Phaeocryptopus* Naumov 1915 and *Dimerina* Theiss. 1912
Sclerophoma Höhn. 1909, anamorphic *Sydowia* Bres. 1895

Teratosphaeriaceae Crous & U. Braun
Acidomyces B.J. Baker, M.A. Lutz, S.C. Dawson, P.L. Bond & Banfield ex Selbmann, de Hoog & De Leo 2008
Batcheloromyces Marasas, P.S. van Wyk & Knox-Dav. 1975*
Baudoinia J.A. Scott & Unter. 2007*
Catenulostroma Crous & U. Braun 2007*
Capnobotryella Sugiy. 1987*
Cibiessia Crous 2007*

Colletogloeopsis Crous & M.J. Wingf. 1997*
Cystocoleus Thwaites 1849*
Davisoniella H.J. Swart 1988*
Devriesia Seifert & N.L. Nick. 2004*
Friedmanniomyces Onofri 1999*
Hortaea Nishim. & Miyaji 1984*
Kirramyces J. Walker, B. Sutton & Pascoe 1992, anamorphic *Teratosphaeria* Syd. & P. Syd. 1912*
Nothostrasseria Nag Raj 1983
Passalora Fr. 1849*
Penidiella Crous & U. Braun 2007*
Phacellium Bonord. 1860*
Phaeothecoidea Crous 2007*
Pseudocercosporella Deighton 1973*
Pseudoramichloridium Cheewangkoon & Crous 2010*
Pseudotaeniolina J.L. Crane & Schokn. 1986*
Ramichloridium Stahel ex de Hoog 1977*
Readeriella Syd. & P. Syd. 1908*
Sporidesmium Link 1809*
Staninwardia B. Sutton 1971*
Stenella Syd. 1930*
Trimmatostroma-like, anamorphic *Teratosphaeria* Syd. & P. Syd. 1912
Tripospermum Speg. 1918*

Myriangiales Starbäck
Elsinoaceae Höhn. ex Sacc. & Trotter
Endosporium Tsuneda 2008
Sphaceloma de Bary 1874 anamorphic *Elsinoë* Racib. 1900
Xenodiella Syd. 1935, anamorphic *Xenodium* Syd. 1935

Myriangiales, genera *incertae sedis*
Phaeosclera Sigler, Tsuneda & J.W. Carmich. 1981*
Sarcinomyces Lindner 1898*

Subclass *Pleosporomycetidae* C.L. Schoch, Spatafora, Crous & Shoemaker
Pleosporales Luttrell ex M.E. Barr
Amniculicolaceae Yin. Zhang, C.L. Schoch, J. Fourn., Crous & K.D. Hyde
Anguillospora Ingold 1942*

Cucurbitariaceae G. Winter
Camarosporium Schulzer 1870, anamorphic *Cucurbitaria* Gray 1821
Coniothyrium-like, anamorphic *Curreya* Sacc. 1883
Diplodia-like, anamorphic *Cucurbitaria* Gray 1821
?*Phaeoseptoria* Speg. 1908, anamorphic *Rhytidiella* Zalasky 1968
Phialophorophoma Linder 1944*
Phoma Sacc. 1880*
Pleurophoma Höhn. 1914*
Pleurostromella Petr. 1922, anamorphic *Cucurbitaria* Gray 1821 and *Gibberidea* Fuckel 1870
Pyrenochaeta De Not. 1849, anamorphic *Cucurbitaria* Gray 1821*
Pyrenochaetopsis Gruyter, Aveskamp, & Verkley, 2010*
?*Megaloseptoria* Naumov 1925, anamorphic *Cucurbitaria* Gray 1821
Syntholus A.W. Ramaley & M.E. Barr 1997, anamorphic *Syncarpella* Theiss. & Syd. 1915

Diademaceae Shoemaker & C.E. Babc.
Alternaria-like anamorphic *Comoclathris* Clem. 1909

Didymellaceae Gruyter, Aveskamp & Verkley
Ascochyta Lib. 1830, anamorphic *Didymella* Sacc. ex D. Sacc. 1880*
Ampelomyces Ces. ex Schltdl. 1852*
Boeremia Aveskamp, Gruyter & Verkley 2010*
Chaetasbolisia Speg. 1918*
Dactuliochaeta G.L. Hartm. & J.B. Sinclair 1988, anamorphic *Didymella* Sacc. 1880
Epicoccum Link 1815*
Microsphaeropsis Höhn. 1917*
Peyronellaea Gold. ex Togliani 1952*
Phoma Sacc. 1880, anamorphic *Didymella* Sacc. ex D. Sacc. 1880*
Piggotia Berk. & Broome 1851, possibly anamorphic *Platychora* Petr. 1925
Pithoascus Arx 1973, ?anamorphic *Leptosphaerulina* McAlpine 1902
Pithomyces Berk. & Broome 1875, anamorphic *Leptosphaerulina* McAlpine 1902
Stagonosporopsis Died. 1912*, anamorphic *Didymella* Sacc. ex D. Sacc. 1880

Didymosphaeriaceae Munk
Cytoplea Bizz. & Sacc. 1885, anamorphic *Roussoëlla* Sacc. 1888

Dothidotthiaceae Crous & A.J.L. Phillips
Dothiorella Sacc. 1880, ?anamorphic *Dothidotthia* Höhn. 1918*
Thyrostroma Höhn. 1911, anamorphic *Dothidotthia* Höhn. 1918

Hypsostromataceae Huhndorf
Pleurophomopsis–like, anamorphic *Hypsostroma* Huhndorf

Lentitheciaceae Yin. Zhang, C.L. Schoch, J. Fourn., Crous & K.D. Hyde
Stagonospora (Sacc.) Sacc. 1884*

Leptosphaeriaceae M.E. Barr
Coniothyrium Corda 1840, anamorphic *Leptosphaeria* Ces. & De Not. 1863*
Coniothyrium-like, anamorphic *Neophaeosphaeria* M.P.S. Câmara, M.E. Palm & A.W. Ramaley 2003
Phoma Sacc. 1880, anamorphic *Leptosphaeria* Ces. & De Not. 1863*
Plenodomus Preuss 1851
Pyrenochaeta De Not. 1849, possibly anamorphic *Leptosphaeria* Ces. & De Not. 1863*

Lindgomycetaceae K. Hiray., Kaz. Tanaka & Shearer
Taeniolella S. Hughes 1958*

Lophiostomataceae Sacc.
Ascochyta Lib. 1830, anamorphic *Trichometasphaeria* Munk 1953
Pleuorphomopsis-like, anamorphic *Lophiostoma* Ces. & De Not. 1863

Massariaceae Nitschke
?*Aplosporella*-like, anamorphic *Dubitatio* Speg. 1882
Myxocyclus Riess 1852, anamorphic *Massaria* De Not. 1844
Torula Pers. 1794*

Massarinaceae Munk
Aquaticheirospora Kodsueb & W.H. Ho 2007*
Ceratophoma Höhn. 1917, anamorphic *Massarina* Sacc. 1883
Cheirosporium L. Cai & K.D. Hyde 2008*
Helminthosporium Link 1809*
Neottiosporina Subram. 1961*
Pseudodictyosporium Matsush. 1971

Melanommataceae G. Winter
Aposphaeria Sacc. 1880*
Beverwykella Tubaki 1975*
Nigrolentilocus R.F. Castañeda & Heredia 2001, anamorphic *Melanomma* Nitschke ex Fuckel 1870
Monodictys S. Hughes 1958, ?anamorphic *Ohleria* Fuckel 1868
Monotosporella S. Hughes 1958*
Pyrenochaeta De Not. 1849, anamorphic *Byssosphaeria* Cooke 1879
Sporidesmiella P.M. Kirk 1982

Montagnulaceae M.E. Barr
Aschersonia Mont. 1848, anamorphic *Montagnula* Berl. 1896
Microdiplodia Allesch. 1901, possibly anamorphic *Karstenula* Speg. 1879
Microsphaeropsis Höhn. 1917, anamorphic *Paraphaeosphaeria* O.E. Erikss. 1967*
Paraconiothyrium Verkley 2004*, possibly anamorphic *Paraphaeosphaeria* O.E. Erikss. 1967

Phaeosphaeriaceae M.E. Barr
Amarenographium O.E. Erikss. 1982, anamorphic *Amarenomyces* O.E. Erikss. 1981 (recently synonymised with *Phaeosphaeria* I. Miyake 1909)
Ampelomyces Ces. ex Schltdl. 1852*
Chaetosphaeronema Moesz 1915*
Coniothyrium Corda 1840, anamorphic *Ophiobolus* Riess 1854
Hendersonia-like, anamorphic *Austropleospora* R.G. Shivas & L. Morin 2010 and *Phaeosphaeria* I. Miyake 1909*
Neosetophoma Gruyter, Aveskamp & Verkley 2010*
?*Parahendersonia* A.W. Ramaley 1995, anamorphic *Chaetoplea* (Sacc.) Clem. 1931
Paraphoma Morgan-Jones & J.F. White 1983*

Phaeoseptoria Speg. 1908, anamorphic *Phaeosphaeria* I. Miyake 1909
Phaeostagonospora A.W. Ramaley 1997, anamorphic *Phaeosphaeriopsis* M.P.S. Câmara, M.E. Palm & A.W. Ramaley 2003
Phoma Sacc. 1880, anamorphic *Ophiobolus* Riess 1854
Rhabdospora (Durieu & Mont. ex Sacc.) Sacc. 1884, anamorphic *Ophiobolus* Riess 1854
Scolecosporiella Petr. 1921, anamorphic *Ophiosphaerella* Speg. and *Phaeosphaeria* I. Miyake 1909
Setophoma Gruyter, Aveskamp & Verkley 2010*
?*Sphaerellopsis* Cooke 1883, anamorphic *Eudarluca* Speg. 1908
Stagonospora (Sacc.) Sacc. 1884, anamorphic *Phaeosphaeria* I. Miyake 1909*
Tiarospora Sacc. & Marchal 1885

Pleomassariaceae M.E. Barr
Ceuthodiplospora Died. 1912, anamorphic *Splanchnonema* Corda
?*Prosthemium* Kunze 1817, anamorphic *Pleomassaria* Speg. 1880*
Myxocyclus Riess 1852, anamorphic *Splanchnonema* Corda 1829
Scolicosporium Lib. ex Roum. 1880, anamorphic *Asteromassaria* Höhn. 1917
Shearia Petr. 1924, anamorphic *Pleomassaria* Speg. 1880
Stegonsporium Corda 1827, anamorphic *Splanchnonema* Corda 1829

Pleosporaceae Nitschke
Alternaria Nees 1816, anamorphic *Lewia* M.E. Barr & E.G. Simmons 1986
Alternariaster E.G. Simmons 2007
Brachycladium Corda 1838, anamorphic *Crivellia* Shoemaker & Inderbitzin 2006
Bipolaris Shoemaker 1959, anamorphic *Cochliobolu*s Drechsler 1934
Chalastospora E.G. Simmons 2007*
Curvularia Boedijn 1933, anamorphic *Cochliobolu*s Drechsler 1934
Dactuliophora C.L. Leakey 1964
Dendryphiella Bubák & Ranoj. 1914*
Dendryphion Wallr. 1833
Dictyosporium Corda 1836*
Digitodesmium P.M. Kirk 1981
Drechslera S. Ito 1930, anamorphic *Pyrenophora* Fr. 1849
Edenia M.C. González, Anaya, Glenn, Saucedo & Hanlin 2007*
Embellisia E.G. Simmons 1971, anamorphic *Lewia* M.E. Barr & E.G. Simmons
Exserohilum K.J. Leonard & Suggs 1974, anamorphic *Setosphaeria* K.J. Leonard & Suggs 1974
Gibbago E.G. Simmons 1986
Lemonniera De Wild. 1894*
Marielliottia Shoemaker 1999, anamorphic *Pyrenophora* Fr. 1849
Nimbya E.G. Simmons 1989, anamorphic *Macrospora* Fuckel 1870
Prathoda Subram. 1956
Stemphylium Wallr. 1833, anamorphic *Pleospora* Rabenh. ex Ces. & De Not. 1863*
Teretispora E.G. Simmons 2007
Ulocladium Preuss 1851*

Sporormiaceae Munk
?*Amorosia* Mantle & D. Hawksw. 2006
Phoma Sacc. 1880*
Phoma-like, anamorphic *Westerdykella* Stolk 1955*

Teichosporaceae M.E. Barr
Coniothyrium-like, anmorphic *Immothia* M.E. Barr

Tetraplosphaeriaceae Kaz. Tanaka & K. Hiray
Pseudotetraploa Kaz. Tanaka & K. Hirayama 2009*
Quadricrura Kaz. Tanaka, K. Hirayama & Sat. Hatak. 2009*
Tetraploa Berk. & Broome 1850, anamorphic *Tetraplosphaeria* Kaz. Tanaka & K. Hirayama 2009*
Tetraploa-like, anamorphic *Triplosphaeria* Kaz. Tanaka & K. Hirayama 2009 and *Polyplosphaeria* Kaz. Tanaka & K. Hirayama 2009*

Venturiaceae E. Müll. & Arx ex M.E. Barr
Anungitea B. Sutton 1973
Anungitopsis R.F. Castañeda & W.B. Kendr. 1990

Cylindrosympodium W.B. Kendr. & R.F. Castañeda 1990
Dictyodochium Sivan. 1984, anamorphic *Gibbera* Fr. 1825
Fusicladium Bonord. 1851, anamorphic *Acantharia* Theiss. & Syd. 1918, *Dibotryon* Thesis. & Syd. 1915 and ?*Venturia* Sacc. 1882*
Fusicladium-like, anamorphic *Antennularia* Rchb. 1828
Piggotia Berk. & Broome 1851
Sclerophoma Höhn. 1909, ?anamorphic *Xenomeris* Syd. 1924
Spilodochium Syd. 1927, anamorphic *Pseudoparodiella* F. Stevens 1927
Stigmina-like, anamorphic *Gibbera* Fr. 1825 and *Phragmogibbera* Samuels & Rogerson 1990
Ulocladium-like, anamorphic *Lasiobotrys* Kunze 1823
Veronaeopsis Arzanlou & Crous 2007
Zeloasperisporium R.F. Castañeda 1996

Pleosporales, genera *incertae sedis*
Berkleasmium Zobel 1854
Briansuttonia R.F. Castañeda, Minter & Saikawa 2004
Cheiromoniliophora Tzean & J.L. Chen 1990
Clavariopsis De Wild. 1895
Diplococcium Grove 1885*
Ellisembia Subram. 1992
Fusculina Crous & Summerell 2006
Mycocentrospora Deighton 1972
Ochrocladosporium Crous & U. Braun 2007
Phoma Sacc. 1880*
Periconia Tode 1791
Pleurophomopsis Petr. 1924, anamorphic *Astrosphaeriella* Syd. & P. Syd. 1913
Polyschema H.P. Upadhyay 1966*
Pseudochaetosphaeronema Punith. 1979
Repetophragma Subram. 1992*
Sclerostagonospora Höhn. 1917*
Sirodesmium De Not. 1849*
Spadicoides S. Hughes 1958*
Sporidesmium Link 1809*
Versicolorisporium Sat. Hatak., Kaz. Tanaka & Y. Harada 2008
Zalerion-like, anamorphic *Trematosphaeria* Fuckel 1870

Pleosporomycetidae, genera *incertae sedis*
Acrogenospora M.B. Ellis 1971, anamorphic *Farlowiella* Sacc. 1891

Dothideomycetes, orders *incertae sedis*
Acrospermales Minter, Peredo & A.T. Watson
Acrospermaceae Fuckel
Gonatophragmium Deighton 1969, anamorphic *Acrospermum* Tode 1790

Botryosphaeriales C.L. Schoch, Crous & Shoemaker
Botryosphaeriaceae Theiss. & H. Syd.*
Aplosporella Speg. 1880*
Bahusutrabeeja Subram. & Bhat 1977*
Barriopsis A.J.L. Phillips, A. Alves & Crous 2008*
Dichomera Cooke 1878
Diplodia Fr. 1834*
Diplodia-like, anamorphic *Neodeightonia* C. Booth 1970 and *Saccharata* Denman & Crous 2004
Dothichiza-like, anamorphic *Leptoguignardia* E. Müll. 1955
Dothiorella Sacc. 1880, anamorphic *Spencermartinsia* A.J.L. Phillips, A. Alves & Crous 2008
Fusicoccum Corda 1829, anamorphic *Botryosphaeria* Ces. & De Not. 1863
Fusicoccum-like, anamorphic *Melanops* Nitschke ex Fuckel 1870* and *Saccharata* Denman & Crous 2004
Leptodothiorella Höhn. 1918, anamorphic *Guignardia* Viala & Ravaz 1892
Lasiodiplodia Ellis & Everh. 1896*
Macrophomina Petr. 1923*
Microdiplodia Allesch. 1901
Neofusicoccum Crous, Slippers & A.J.L. Phillips 2006, with *Botryosphaeria*-like teleomorphs*
Neoscytalidium Crous & Slippers 2006
Phaeobotryon Theiss. & Syd. 1915*
Phyllosticta Pers. 1818, anamorphic *Guignardia* Viala & Ravaz 1892
Pseudofusicoccum Mohali, Slippers & M.J. Wingf. 2006
Sphaeropsis Sacc. 1880

Botryosphaeriales, genera *incertae sedis*
Camarosporium Schulzer 1870
Dichomera Cooke 1878
Hendersonula Speg. 1880

Hysteriales Lindau

Hysteriaceae Chevall.

Aposphaeria-like, anamorphic *Gloniopsis* De Not. 1847* and *Hysterobrevium* E. Boehm & C.L. Schoch 2010*

Plenodomus Preuss 1851, anamorphic *Psiloglonium* Höhn. 1918*

Septonema Corda 1837, anamorphic *Oedohysterium* E. Boehm & C.L. Schoch 2009*

Sporidesmium Link 1809, anamorphic *Psiloglonium* Höhn. 1918*

Jahnulales Pang, Abdel-Wahab, El-Sharouney, E.B.G. Jones & Sivichai

Aliquandostipitaceae Inderbitzin

Brachiosphaera Nawawi 1976*

Xylomyces Goos, R.D. Brooks & Lamore 1977*

Mytilinidiales Boehm, C.L. Schoch & Spatafora

Gloniaceae (Corda) Boehm, C.L. Schoch & Spatafora

Cleistonium Speer 1986, anamorphic *Glonium* Mühl. 1813

Mytilinidiaceae Kirschst.

Camaroglobulus Speer 1986, anamorphic *Mytilinidion* Duby 1862

Chalara-like, anamorphic *Quasiconcha* M.E. Barr & M. Blackw. 1981

Papulospora-like, anamorphic *Lophium* Fr. 1818

Septonema-like anamorphic *Mytilinidion* Duby 1862

Patellariales D. Hawksw. & O.E. Erikss.

Patellariaceae Corda

Aposphaeria-like, anamorphic *Rhytidhysteron* Speg. 1881

Diplodia-like, anamorphic *Rhytidhysteron* Speg. 1881

Dothideomycetes, families *incertae sedis*

Ascoporiaceae Kutorga & D. Hawksw.

Plectophomella-like, anamorphic *Pseudosolidum* Lloyd 1923

Asterinaceae Hansf.

?*Acarella* Syd. 1927, anamorphic *Morenoina* Theiss. 1913

Asterostomella Speg. 1886, anamorphic *Asterina* Lév.

Asterostromina Bat. & A.F. Vital 1957, anamorphic *Asterodothis* Theiss.

Asterostomula Theiss. 1916, anamorphic *Echidnodes* Theiss. & Syd. 1918

?*Clasterosporium* Schwein. 1832, anamorphic *Eupelte* Syd. 1924

Clasterosporium-like, anamorphic *Asterina* Lév. 1845

Elachopeltis Syd. 1927, ?anamorphic *Aphanopeltis* Syd. 1927

Leprieurina G. Arnaud 1918, anamorphic *Prillieuxina* G. Arnaud 1918

Peltasterella Bat. & H. Maia 1959, ?anamorphic *Yamamotoa* Bat. 1960

Pirozynskia Subram. 1972, anamorphic *Eupelte* Syd. 1924

Mahanteshamomyces Hosag. & C.K. Biju 2004

Septoidium-like, anamorphic *Eupelte* Syd. 1924

Septothyrella Höhn. 1911, anamorphic *Uleothyrium* Petr. 1929

Sirothyriella Höhn. 1910, anamorphic *Morenoina* Thesis. 1913

?*Thyrinula* Petr. & Syd. 1924, anamorphic *Aulographina* Arx & E. Müll.

Shivomyces Hosag. 2004

Triposporium Corda 1837, anamorphic *Batistinula* Arx 1960

Corynesporascaceae Sivan.

Corynespora Güssow 1906, anamorphic *Corynesporasca* Sivan.

Dacampiaceae Körb.

Cyclothyrium Petr. 1923, anamorphic *Polycoccum* Saut. ex Körb. 1865

Lecythophora-like, anamorphic *Munkovalsaria* Aptroot 1995

Englerulaceae Henn.

Capnodiastrum Speg. 1886, anamorphic *Englerula* Henn. 1904 and *Rhytidenglerula* Höhn. 1918

Questieriella G. Arnaud ex S. Hughes 1983, anamorphic *Schiffnerula* Höhn. 1909

Mitteriella Syd. 1933, anamorphic *Schiffnerula* Höhn. 1909

Sarcinella Sacc. 1880, anamorphic *Schiffnerula* Höhn. 1909

Eremomcetaceae Malloch & Cain
Arthrographis G. Cochet ex Sigler & J.W. Carmich. 1976, anamorphic *Eremomyces* Malloch & Cain
Trichosporiella-like, anamorphic *Rhexothecium* Samson & Mouch. 1975

Euantennariaceae Hughes & Corlett
Antennatula Fr. ex F. Strauss 1850, anamorphic *Euantennaria* Speg. and *Strigopodia* Bat. 1957
Capnokyma S. Hughes 1975
Capnophialophora S. Hughes 1966, anamorphic *Strigopodia* Bat. 1957
Hormisciomyces Bat. & Nascim. 1957, anamorphic *Euantennaria* Speg.
Hyphosoma Syd. 1924, anamorphic *Strigopodia* Bat. 1957
Plokamidomyces Bat., C.A.A. Costa & Cif. 1957, anamorphic *Trichopeltheca* Bat., C.A.A. Costa & Cif. 1958
Racodium Fr. 1829, anamorphic *Strigopodia* Bat. 1957
Trichothallus F. Stevens 1925, anamorphic *Trichopeltheca* Bat., C.A.A. Costa & Cif. 1958

Fenestellaceae M.E. Barr
Pleurostromella Petr. 1922, anamorphic *Fenestella* Tul. & C. Tul. 1863

Leptopeltidaceae Höhn. ex Trotter
Idriella-like, anamorphic *Dothiopeltis* E. Mull. 1957
Leptothyrium-like, anamorphic *Leptopeltis* Höhn. 1917

Meliolinaceae S. Hughes
Briania D.R. Reynolds 1989, anamorphic *Meliolina* Syd. & P. Syd. 1914

Micropeltidaceae Clem. & Shear
Cyclopeltella Petr. 1953, anamorphic *Cyclopeltis* Petr. 1953
Sirothyriella Höhn. 1910, anamorphic *Stomiopeltis* Theiss. 1914
Sporidesmium-like anamorphic *Stomiopeltis* Theiss. 1914 (as *Akaropeltella* M.L. Farr, 1972)

Microthyriaceae Sacc.
Asterostomula Theiss. 1916, anamorphic *Asterinella* Theiss. 1912
Asteromella-like, anamorphic *Asterinella* Theiss. 1912
Eriothyrium Speg. 1888 (possible link to *Asterinema* Bat. & Gayão 1953)
Hansfordiella S. Hughes 1951, anamorphic *Trichothyrium* Speg. 1889
Isthmospora F. Stevens 1918, anamorphic *Trichothyrium* Speg. 1889
Leptothyrium Kunze 1823, anamorphic *Microthyrium* Desm. 1841
Xenogliocladiopsis Crous & W.B. Kendr. 1994, anamorphic *Arnaudiella* Petr. 1927

Parmulariaceae E. Müll. & Arx ex M.E. Barr
?Melanoplaca Syd. & P. Syd. 1917, anamorphic *Dothidasteroma* Höhn. 1909
Placomelan Cif. 1962, anamorphic *Dothidasteroma* Höhn. 1909

Parodiellaceae Theiss. & H. Syd. ex M.E. Barr
?*Ascochytopsis* Henn. 1905, anamorphic *Parodiella* Speg. 1880

Parodiopsidaceae Toro
Chuppia-like, anamorphic *Neoparodia* Petr. & Cif. 1932
Cicinnobella Henn. 1904, anamorphic *Perisporiopsis* Henn. 1904 (as *Phaeodimeriella* Speg. 1908) and *Dimerium* (Sacc. & P. Syd.) Sacc. & D. Sacc. 1905
Exosporinella Bender 1932, possibly anamorphic *Parodiellina* Henn. ex G. Arnaud 1918
Ophiotrichum Kunze 1849 ?anamorphic *Leptomeliola* Höhn. 1919
Sarcinella-like, anamorphic *Neoparodia* Petr. & Cif. 1932
Septoidium G. Arnaud 1921, anamorphic *Alina* Racib. 1909, possibly *Perisporiopsis* Henn. 1904* and *Pilgeriella* Henn. 1900
Tretospora M.B. Ellis 1976, anamorphic *Balladyna* Racib. and *Balladynopsis* Theiss. & Syd.

Planistromellaceae M.E. Barr

Aposphaeria-like, anamorphic *Microcyclus* Sacc., Syd. & P. Syd. 1904

Fusicladium Bonord. 1851, anamorphic *Microcyclus* Sacc., Syd. & P. Syd. 1904

Hyphospora A.W. Ramaley 1996, anamorphic *Comminutispora* A.W. Ramaley 1996

Kellermania Ellis & Everh. 1885, anamorphic *Planistroma* A.W. Ramaley 1991

Lecanosticta Syd. 1922, anamorphic *Eruptio* M.E. Barr 1996

Pazschkeella Syd. & P. Syd. 1901, anamorphic *Microcyclus* Sacc., Syd. & P. Syd. 1904

Piptarthron Mont. ex Höhn. 1918, anamorphic *Planistroma* A.W. Ramaley 1991

Polystomellaceae Theiss. & H. Syd.

Lasmenia Speg. 1886, anamorphic *Munkiella* Speg. 1885

Asteromella Pass. & Thüm. 1880 (as *Stictochorella* Höhn. 1917), anamorphic *Dothidella* Speg. 1880

Pseudoperisporiaceae Toro

Chaetosticta Petr. & Syd. 1925, anamorphic *Lasiostemma* Theiss., Syd. & P. Syd. 1917 and ?*Nematostoma* Syd. & P. Syd. 1914

Schizothyriaceae Höhn. ex Trotter, Sacc., D. Sacc. & Traverso

Plenotrichaius Bat. & Valle 1961, anamorphic *Mycerema* Bat., J.L. Bezerra & Cavalc 1963

Zygophiala E.W. Mason 1945, anamorphic *Schizothyrium* Desm. 1849*

Tubeufiaceae M.E. Barr

Annellospermosporella P.R. Johnst. 1999, anamorphic *Malacaria* Syd. 1930

Aquaphila Goh, K.D. Hyde & W.H. Ho 1998, anamorphic *Tubeufia* Penz. & Sacc. 1898

Araneomyces Höhn. 1909, anamorphic *Paranectriella* (P. Henn. & Sacc.) Höhn.

Guelichia Speg. 1886, anamorphic *Puttemansia* Henn. 1902

Helicoma Corda 1837, anamorphic *Tubeufia* Penz. & Sacc. 1898

Helicoön Morgan 1892

Helicomyces Link 1809, anamorphic *Acanthostigma* De Not. (1863)

Helicosporium Nees 1816, anamorphic *Acanthostigma* De Not. (1863), *Thaxteriellopsis* Sivan., Panwar & S.J. Kaur 1977, *Tubeufia* Penz. & Sacc. 1898

Kamalomyces R.K. Verma, N. Sharma & Soni 2008

Mirandina G. Arnaud ex Matsush. 1975, anamorphic *Taphrophila* Scheuer 1988

Monodictys-like, anamorphic *Tubeufia* Penz. & Sacc. 1898

Pendulispora M.B. Ellis 1961, anamorphic *Tubeufia* Penz. & Sacc. 1898

Peziotrichum (Sacc.) Lindau 1900, anamorphic *Podonectria* Petch 1921

Tetracrium Henn. 1902, anamorphic *Puttemansia* Henn. 1902

Titaea Sacc. 1876, anamorphic *Paranectriella* (Henn. ex Sacc. & D. Sacc.) Höhn. 1910

Xenosporium Penz. & Sacc. 1901, anamorphic *Acanthostigmella* Höhn. 1905 and *Chaetosphaerulina* I. Hino 1938 (as *Thaxteriellopsis* Sivan., Panwar & S.J. Kaur 1977).

Vizellaceae H.J. Swart

Chrysogloeum Petr. 1959, anamorphic *Blasdalea* Sacc. & P. Syd. 1902

Manginula G. Arnaud 1918, anamorphic *Vizella* Sacc. 1883

Dothideomycetes, genera *incertae sedis*

Acrocalymma Alcorn & J.A.G. Irwin (1987), anamorphic *Massarina*, however *Massarina* has been shown to be polyphyletic and its placement is therefore presently unclear.

Ascochyta-like, anamorphic *Gilletiella* Sacc. & P. Syd. 1899

Asteromella Pass. & Thüm. 1880

Bactrodesmium Cooke 1883, anamorphic *Stuartella* Fabre 1879

Bahusakala Subram. 1958

Blastostroma C.Z. Wei, Y. Harada & Katum. 1998, anamorphic *Mycodidymella* C.Z. Wei, Y. Harada & Katum. 1998

Brachyconidiella R.F. Castañeda & W.B. Kendr. 1990
Camarosporula Petr. 1954, anamorphic *Anthracostroma* Petr. 1954
Cenococcum Moug. & Fr. 1829
Chaetasbolisia Speg. 1918, anamorphic *Pseudomorfea* Punith. 1981*
Cladoriella Crous 2006
Coniosporium Link 1809*
Coronospora M.B. Ellis 1971, anamorphic *Ascocoronospora* Matsush. 2003
Cryomyces Selbmann, de Hoog, Mazzaglia, Friedmann & Onofri 2005*
?*Cyclothyrium* Petr. 1923, anamorphic *Thyridaria* Sacc. 1875
Dendryphiopsis S. Hughes 1953, anamorphic *Kirschsteiniothelia* D. Hawksw. 1985
Diederichia D. Hawksw. 2003
Dilophospora Desm. 1840, anamorphic *Lidophia* J. Walker & B. Sutton 1974
Diplodia-like, anamorphic *Otthia* Nitschke ex Fuckel 1870
Disculina Höhn. 1916
Hansfordiellopsis Deighton 1960, anamorphic *Koordersiella* Höhn. 1909
Helicodendron Peyronel 1918, anamorphic *Tyrannosorus* Unter. & Malloch 1995
Hiospira R.T. Moore 1962, anamorphic *Brooksia* Hansf. 1956
Iledon Samuels & J.D. Rogers 1986, anamorphic *Botryohypoxylon* Samuels & J.D. Rogers 1986
Megaloseptoria Naumov 1925
Monodictys S. Hughes 1958
Peltaster Syd. & P. Syd. 1917
Phaeothecoidiella Batzer & Crous 2010*
Phanerococculus Cif. 1954, anamorphic *Koordersiella* Höhn. 1909
Phialophora-like, anamorphic *Tirisporella* E.B.G. Jones, K.D. Hyde & Alias 1996
Phoma-like, anamorphic *Tremateia* Kohlm., Volkm.-Kohlm. & O.E. Erikss. 1995
Placosphaeria (De Not.) Sacc. 1880
Plectopycnis Bat. & A.F. Vital 1959
Pleurostromella Petr. 1922, anamorphic *Gibberidea* Fuckel 1870
Pseudorobillarda M. Morelet 1968*
Pycnopleiospora C.Z. Wei, Y. Harada & Katum. 1997, anamorphic *Pseudodidymella* C.Z. Wei, Y. Harada & Katum. 1997
Ramalia Bat. 1957
Rhizopycnis D.F. Farr 1998
Scleroconidioma Tsuneda, Currah & Thormann 2000
Septoriella Oudem. 1889
Sympodiella-like, anamorphic *Sympoventuria* Crous & Seifert 2007
Troposporella P. Karst. 1892*
Xenostigmina Crous 1998*

Class *Eurotiomycetes* Tehler ex O.E. Eriksson & K. Winka
Subclass *Chaetothyriomycetidae* Doweld
Chaetothyriales M.E. Barr
Chaetothyriaceae Hansf. ex M.E. Barr
Cyphellophora G.A. de Vries 1962*
Merismella Syd. 1927, anamorphic *Chaetothyrium* Speg.
Stanhughesia Constant. 1989, anamorphic *Ceramothyrium* Bat. & H. Maia 1956
Vonarxia Bat. 1960*

Herpotrichiellaceae Munk
Brycekendrickomyces Crous & M.J. Wingf. 2009*
Cladophialophora Borelli 1980, anamorphic *Capronia* Sacc. 1883*
Exophiala J.W. Carmich. 1966, anamorphic *Capronia* Sacc. 1883
Fonsecaea Negroni 1936, anamorphic *Capronia* Sacc. 1883
Metulocladosporiella Crous, Schroers, J.Z. Groenew., U. Braun & K. Schub. 2006
Nadsoniella Issatsch. 1914
Phaeococcomyces de Hoog 1979
Phialophora Medlar 1915
Racodium Pers. 1794, anamorphic *Capronia* Sacc. 1883
Rhinocladiella Nannf. 1934, anamorphic *Capronia* Sacc. 1883
Sorocybe Fr. 1849
Thysanorea Arzanlou, W. Gams & Crous 2007

Chaetothyriales M.E. Barr, genera *incertae sedis*
Coniosporium Link 1809, the type species is considered as *Sirodesmium* De Not. 1849*

Phaeoannellomyces McGinnis & Schell 1985
Staninwardia B. Sutton 1971*
Strelitziana Arzanlou & Crous 2006*

Pyrenulales Fink ex D. Hawksw. & O.E. Erikss.
Pyrenulales, genera *incertae sedis*
Lyromma Bat. & H. Maia 1965

Chaetothyriomycetidae, families *incertae sedis*
Rhynchostomataceae Winka & O. E. Erikss.
Arthropycnis Constant. 1992, anamorphic *Rhynchostoma* P. Karst.

Strigulaceae Zahlbr.
Discosiella Syd. & P. Syd. 1912, anamorphic *Strigula* Fr. 1823

Chaetothyriomycetidae, genera *incertae sedis*
Peyronelia Cif. & Gonz. Frag. 1927, anamorphic *Glyphium* Nitschke ex F. Lehm. 1886
Phaeomoniella Crous & W. Gams 2000*
Rhabdospora-like, anamorphic *Dolabra* C. Booth & W.P. Ting 1964*
Taeniolella S. Hughes 1958*, anamorphic *Glyphium* Nitschke ex F. Lehm. 1886

Subclass *Eurotiomycetidae* Geiser & Lutzoni
Coryneliales Seaver & Chardon
Coryneliaceae Sacc. ex Berl. & Voglino
Exophiala J.W. Carmich. 1966, anamorphic *Bicornispora* Checa, Barrasa, M.N. Blanco & A.T. Martínez 1996

Eurotiales G.W. Martin ex Benny & Kimbr.
Monascaceae J. Schröt.
Basipetospora G.T. Cole & W.B. Kendr. 1968, anamorphic *Monascus* Tiegh.
?*Fraseriella* Cif. & A.M. Corte 1957, anamorphic *Xeromyces* Fraser

Trichocomaceae E. Fisch.
Aspergillus P. Micheli ex Link 1809, anamorphic *Dichlaena* Durieu & Mont. 1849, *Emericella* Berk. & Broome 1857, *Eurotium* Link 1809, *Fennellia* B.J. Wiley & E.G. Simmons 1973, *Hemicarpenteles* A.K. Sarbhoy & Elphick 1968, *Neopetromyces* Frisvad & Samson 2000, *Neosartorya* Malloch & Cain 1973*, *Petromyces* Malloch & Cain 1973* and *Warcupiella* Subram. 1972
Eladia G. Sm. 1961*
Geosmithia-like anamorphic *Chromocleista* Yaguchi & Udagawa 1993 and *Talaromyces* C.R. Benj. 1955
Isaria Pers. 1794, anamorphic *Byssochlamys* Westling
Merimbla Pitt 1979, anamorphic *Talaromyces* C.R. Benj. 1955*
Paecilomyces Bainier 1907, anamorphic *Byssochlamys* Westling 1909*
Paecilomyces-like, anamorphic *Cooneemeria* Mouch. 1997
Penicillium Link 1809, anamorphic *Eupenicillium* F. Ludw. 1892*, *Talaromyces* C.R. Benj. 1955* and *Trichocoma* Jungh. 1838
Polypaecilum G. Sm. 1961, anamorphic *Dactylomyces* Sopp 1912, *Dichotomomyces* Saito ex D.B.Scott 1970 and *Thermoascus* Miehe 1907
Pseudocordyceps Hauman 1936, anamorphic *Penicilliopsis* Solms 1887
Sagenomella W. Gams 1978, anamorphic *Sagenoma* Stolk & G.F. Orr 1974
Sarophorum Syd. & P. Syd. 1916, anamorphic *Penicilliopsis* Solms 1887
Stilbodendron Syd. & P. Syd. 1916, anamorphic *Penicilliopsis* Solms 1887
Stilbothamnium Henn. 1896
Thysanophora W.B. Kendr. 1961
Torulomyces Delitsch 1943

Eurotiales, genera *incertae sedis*
Thermomyces Tsikl. 1899

Eurotiomycetidae genera *incertae sedis*
Penicillium Link 1809, anamorphic *Paratalaromyces* Matsush. 2003

Onygenales Cif. ex Benny & Kimbr.
Ajellomycetaceae Untereiner, J.A. Scott & Sigler
Emmonsia Cif. & Montemart. 1959, anamorphic *Ajellomyces* McDonough & A.L. Lewis 1968
Histoplasma Darling 1906, anamorphic *Ajellomyces* McDonough & A.L. Lewis 1968
Lacazia Taborda, V.A. Taborda & McGinnis 1999*

Loboa Cif., P.C. Azevedo, Campos & Carneiro 1956
Paracoccidioides F.P. Almeida 1930

Arachnomycetaceae Gibas, Sigler & Currah
Onychocola Sigler 1990, anamorphic *Arachnomyces* Massee & E.S. Salmon 1902

Gymnoascaceae Baran.
Chrysosporium-like, anamorphic *Orromyces* B. Sur & G.R. Ghosh 1987
Malbranchea Sacc. 1882, anamorphic *Byssoonygena* Guarro, Punsola & Cano 1987 and *Gymnoascus* Baran. 1872
Oncocladium Wallr. 1833, anamorphic *Gymnoascus* Baran. 1872

Onygenaceae Berk.
Castanedomyces Cano, L.B. Pitarch & Guarro 2002
Chrysosporium Corda 1833 anamorphic *Amauroascus* J. Schröt., *Aphanoascus* Zukal 1890*, *Apinisia* La Touche 1968, *Arachnotheca* Arx 1971, *Nannizziopsis* Currah 1985, ?*Polytolypa* J.A. Scott & Malloch 1993*, *Pectinotrichum* Varsavsky & G.F. Orr 1971, ?*Renispora* Sigler & J.W. Carmich. 1979*
Coccidioides G.W. Stiles 1896
Malbranchea-like, anamorphic *Auxarthron* G.F. Orr & Kuehn 1963, *Byssoonygena* Guarro, Punsola & Cano 1987 and *Uncinocarpus* Sigler & G.F. Orr 1976

Arthrodermataceae Currah
Chrysosporium Corda 1833, anamorphic *Shanorella* R.K. Benj. 1956
Chrysosporium-like, anamorphic *Ctenomyces* Eidam 1880
Epidermophyton Sabour. 1907, anamorphic *Arthroderma* Curr. 1860
Microsporum Gruby 1843, anamorphic *Arthroderma* Curr. 1860
Myceliophthora Costantin 1892, anamorphic *Arthroderma* Curr. 1860
Trichophyton Malmsten 1848, anamorphic *Arthroderma* Curr. 1860

Ascosphaeraceae L.S. Olive & Spiltoir
Chrysosporium-like, anamorphic *Ascosphaera* L.S. Olive & Spiltoir 1955 and *Bettsia* Skou 1972

Onygenales, genera *incertae sedis*
Arthropsis Sigler, M.T. Dunn & J.W. Carmich. 1982
Lacazia Taborda, V.A. Taborda & McGinnis 1999

Subclass *Mycocaliciomycetidae* Tibell
Mycocaliciales Tibell & Wedin
Mycocaliciaceae A.F.W. Schmid
Asterophoma D. Hawksw. 1981, anamorphic *Chaenothecopsis* Vain. 1927
Catenomycopsis Tibell & Constant. 1991, anamorphic *Chaenothecopsis* Vain. 1927
Phialophora-like, anamorphic *Chaenothecopsis* Vain. 1927 and *Mycocalicium* Vain. 1890

Class *Laboulbeniomycetes* Engler
Laboulbeniales Engler
Pyxidiophorales P.F. Cannon
Pyxidiophoraceae Arnold
Chalara-like, anamorphic *Pyxidiophora* Bref. & Tavel 1891
Gliocephalis Matr. 1899
Pleurocatena G. Arnaud ex Aramb., Gamundí, W. Gams & G.R.W. Arnold 2007, anamorphic *Pyxidiophora* Bref. & Tavel 1891
Thaxteriola Speg. 1918, anamorphic *Pyxidiophora* Bref. & Tavel 1891

Class *Lecanoromycetes* O.E. Erikss. & Winka
Subclass *Ostropomycetidae* Reeb, Lutzoni & Cl. Roux
Agyriales Clem. & Shear
Trapeliaceae M. Choisy ex Hertel
Epithyrium (Sacc.) Trotter 1931, anamorphic *Sarea* Fr. 1825
Pycnidiella Höhn. 1915, anamorphic *Sarea* Fr. 1825

Ostropales Nannf.
Odontotremataceae D. Hawksw. & Sherwood
Pycnidial anamorph associated with *Claviradulomyces* P.R. Johnst., D.C. Park, H.C. Evans, R.W. Barreto & D.J. Soares 2010

Stictidaceae Fr.
?*Coleophoma*-like, anamorphic *Stictophacidium* Rehm 1888
?*Ebollia* Minter & Caine 1980, anamorphic *Stictophacidium* Rehm 1888
Phacidiella-like anamorphic *Acarosporina* Sherwood 1977
Stictospora Cif. 1957, anamorphic *Stictis* Pers. 1800

Subclass *Lecanoromycetidae* P.M. Kirk, P.F. Cannon, J.C. David & Stalpers ex Miadl., Lutzoni & Lumbsch
Lecanorales Nannf.
Pilocarpaceae Zahlbr.
Pyriomyces Bat. & H. Maia 1965, anamorphic *Byssoloma* Trevis. 1853
Szczawinskia A. Funk 1984

Stereocaulaceae Chevall.
Lepraria Ach. 1803

Lecanorales, genera *incertae sedis*
Leprocaulon Nyl. 1878
Vouauxiomyces Dyko & D. Hawks. 1979, anamorphic *Abrothallus* De Not. 1845

Class *Leotiomycetes* O.E. Erikss. & Winka
Cyttariales Luttr. ex Gamundı´
Cyttariaceae Speg.
Cytariella Palm 1932, anamorphic *Cyttaria* Berk. 1842

Erysiphales Gwynne-Vaughan
Erysiphaceae Tul. & C. Tul.
Oidiopsis Scalia 1902, anamorphic *Leveillula* G. Arnaud 1921
Oidium Link 1824, anamorphic *Arthrocladiella* Vassilkov 1960, *Brasiliomyces* Viégas 1944, *Cystotheca* Berk. & M.A. Curtis 1860, *Erysiphe* R. Hedw. ex DC. 1805 and *Golovinomyces* (U. Braun) V.P. Gelyuta 1988, *Neoerysiphe* U. Braun 1999*, *Podosphaera* Kunze 1823 and *Sawadaea* Miyabe 1914
Ovulariopsis Pat. & Har. 1900, anamorphic *Phyllactinia* Lév. 1851
Streptopodium R.Y. Zheng & G.Q. Chen 1978, anamorphic *Pleochaeta* Sacc. & Speg. 1881

Helotiales Nannf.
Bulgariaceae Fr.
Crinula Fr. 1821, anamorphic *Holwaya* Sacc. 1889
Endomelaconium Petr. 1940, anamorphic *Bulgaria* Fr. 1822

Dermateaceae Fr.
Cadophora-like, anamorphic *Phaeomollisia* T.N. Sieber & Grünig 2009
Casaresia Gonz. Frag. 1920, anamorphic *Mollisia* (Fr.) P. Karst. 1871
Chondropodium-like, anamorphic *Waltonia* Saho 1970
Corniculariella P. Karst. 1884, anamorphic *Dermea* Fr. 1825 and *Durandiella* Seaver 1932
Cryptocline Petr. 1924, anamorphic *Trochila* Fr. 1849
Cryptosporiopsis Bubák & Kabát 1912*, anamorphic *Neofabraea* H.S. Jacks. 1913, *Pezicula* Tul. & C. Tul. 1865 and ?*Ocellaria* (Tul. & C. Tul.) P. Karst. 1871
Cryptosympodula Verkley 1999, anamorphic *Scleropezicula* Verkley 1999
Cylindrocolla Bonord. 1851, anamorphic *Calloria* Fr. 1836
Cylindrosporium Grev. 1822, anamorphic *Pyrenopeziza* Fuckel 1870
Cystodendron Bubák 1914, anamorphic *Mollisia* (Fr.) P. Karst. 1871 and *Niptera* Fr. 1849
Diplosporonema Höhn. 1917, anamorphic *Pyrenopeziza* Fuckel 1917*
Discogloeum Petr. 1923, anamorphic *Spilopodia* Boud. 1885
Entomosporium Lév. 1856, anamorphic *Diplocarpon* F.A. Wolf 1912
Eriosporella Höhn. 1916, possibly anamorphic *Laetinaevia* Nannf. 1932
Foveostroma DiCosmo 1978, anamorphic *Dermea* Fr. 1825
Gelatinosporium Peck 1873, anamorphic *Dermea* Fr. 1825 and *Durandiella* Seaver 1932
Gloeosporidiella Petr. 1921, anamorphic *Drepanopeziza* (Kleb.) Höhn. 1917 and *Pseudopeziza* Fuckel 1870
Hainesia Ellis & Sacc. 1884, anamorphic *Discohainesia* Nannf. 1932
Helicodendron Peyronel 1918, anamorphic *Mollisia* (Fr.) P. Karst. 1871

Laetinaevia Nannf. 1932, anamorphic *Naeviopsis* B. Hein 1976
Marssonina Magnus 1906, anamorphic *Diplocarpon* F.A. Wolf 1912 & *Drepanopeziza* (Kleb.) Höhn. 1917
Melanodiscus Höhn. 1918, anamorphic *Spilopodia* Boud. 1885
Microgloeum Petr. 1922, anamorphic *Blumeriella* Arx 1961
Monostichella Höhn. 1916, anamorphic *Drepanopeziza* (Kleb.) Höhn. 1917
Phacidiella P. Karst. 1884, anamorphic *Pyrenopeziza* Fuckel 1870
Phialocephala W.B. Kendr. 1961*
Phialocephala-like, anamorphic *Phaeomollisia* T.N. Sieber & Grünig 2009
Phialophora-like, anamorphic *Dibeloniella* Nannf. 1932
Phloeosporella Höhn. 1924, anamorphic *Blumeriella* Arx 1961
Phlyctema Desm. 1847, anamorphic *Neofabraea* H.S. Jacks. 1913
Pilidium Kunze 1823, anamorphic *Discohainesia* Nannf. 1932
Sporonema Desm. 1847, ?anamorphic *Leptotrochila* P. Karst. 1871
Trichosporiella Kamyschko 1960, anamorphic *Laetinaevia* Nannf. 1932

Helotiaceae Rehm
Articulospora Ingold 1942, anamorphic *Hymenoscyphus* Gray 1821
Ascoconidium Seaver 1942, anamorphic *Sageria* A. Funk 1975
Bloxamia Berk. & Broome 1854, anamorphic *Bisporella* Sacc. 1884
Bothrodiscus Shear 1907, anamorphic *Ascocalyx* Naumov 1926
Brunchorstia Erikss. 1891, anamorphic *Gremmeniella* M. Morelet 1969
Bryophytomyces Cif. 1953, anamorphic *Hymenoscyphus* Gray 1821
Coryne Nees 1816, anamorphic *Ascocoryne* J.W. Groves & D.E. Wilson 1967
Cystotricha Berk. & Broome 1850, ?anamorphic *Xylogramma* Wallr. 1833
Deltosperma W.Y. Zhuang 1988, anamorphic *Unguiculariopsis* Rehm 1909
Dendrostilbella Höhn. 1905, anamorphic *Claussenomyces* Kirschst. 1923
Dichaenopsella Petr. 1952, type is anamorphic *Godroniopsis* Diehl & E.K. Cash 1929
Digitosporium Gremmen 1953 anamorphic *Crumenulopsis* J.W. Groves 1969
Dimorphospora Tubaki 1958, anamorphic *Hymenoscyphus* Gray 1821
Dothiorina Höhn. 1911, anamorphic *Chlorociboria* Seaver ex Ramamurthi, Korf & L.R. Batra 1958
Endomelaconium Petr. 1940, anamorphic *Austrocenangium* Gamundí 1997
Fuckelia Bonord. 1864, anamorphic *Godronia* Moug. & Lév. 1846
Geniculospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971, anamorphic *Hymenoscyphus* Gray 1821
Gliomastix-like anamorphic *Ascoclavulina* Y. Otani 1974
Heteropatella Fuckel 1874, anamorphic *Heterosphaeria* Grev. 1824
Hormonema-like, anamorphic *Pragmopora* A. Massal 1855
Idriella P.E. Nelson & S. Wilh. 1956, anamorphic *Hymenoscyphus* Gray 1821
Periperidium Darker 1963, anamorphic *Micraspis* Darker 1963
Phialophora-like, anamorphic *Pseudopezicula* Korf 1975
Pragmopycnis B. Sutton & A. Funk 1975, anamorphic *Pragmopora* A. Massal 1855
Pseudospiropes M.B. Ellis 1971, anamorphic *Strossmayeria* Schulzer 1881
Rhinocladiella-like, anamorphic *Bioscypha* Syd. 1927
Rhizothyrium Naumov 1915, anamorphic *Rhizocalyx* Petr. 1928
Scytalidium-like, anamorphic *Hymenoscyphus* Gray 1821
Sirodothis Clem. 1909, anamorphic *Tympanis* Tode 1790
Sporonema Desm. 1847, anamorphic *Godronia* Moug. & Lév. 1846
Symphyosirella Seifert 2009, anamorphic *Symphyosirinia* E.A. Ellis 1956*
Titaeospora Bubák 1916, anamorphic *Stamnaria* Fuckel 1870
Topospora Fr. 1836, anamorphic *Godronia* Moug. & Lév. 1846

Tricladium Ingold 1942, anamorphic *Cudoniella* Sacc. 1889 and *Hymenoscyphus* Gray 1821*
Varicosporium W. Kegel 1906, anamorphic *Hymenoscyphus* Gray 1821*

Hemiphacidiaceae Korf
Meria Vuill. 1896, anamorphic *Rhabdocline* Syd. 1922
Rhabdogloeum Syd. 1922, anamorphic *Rhabdocline* Syd. 1922
Rhabdogloeopsis Petr. 1925, anamorphic *Sarcotrochila* Höhn. 1917

Hyaloscyphaceae Nannf.
Acleistia Bayl. Ell. (1917) anamorphic *Calycina* Nees ex Gray 1821
Brefeldochium Verkley 2005, anamorphic *Polydesmia* Boud. 1885
Chalara-like, anamorphic *Calycellina* Höhn., *Phaeoscypha* Spooner 1984 and *Tapesina* Lambotte 1887
Cheiromycella Höhn. 1910, anamorphic *Hyaloscypha* Boud. 1885
Clathrosphaerina Beverw. 1951, anamorphic *Hyaloscypha* Boud. 1885
Haplographium Berk. & Broome 1859, anamorphic *Dematioscypha* Svrček 1977
Mycoarthris Marvanová & P.J. Fisher 2002
Naemospora Roth ex Kuntze 1898, possibly anamorphic *Lachnellula* P. Karst. 1884
Phialophora-like, anamorphic *Cistella* Quél. and *Hyalopeziza* Fuckel 1870
Pseudaegerita J.L. Crane & Schokn. 1981, anamorphic *Hyaloscypha* Boud. 1885
Septonema-like anamorphic *Ciliolarina* Svrcek 1977
Tricladium Ingold 1942, anamorphic *Hydrocina* Scheuer 1991

Leotiaceae Corda
Alatospora Ingold 1942
Aureohyphozyma Hosoya & Y. Otani 1995, anamorphic *Gelatinipulvinella* Hosoya & Y. Otani 1995
Halenospora E.B.G. Jones 2009*
Myrioconium-like, anamorphic *Neobulgaria* Petr. 1921
Phialophora-like, anamorphic *Neobulgaria* Petr. 1921*

Loramycetaceae Dennis ex Digby & Goos
Anguillospora-like, anamorphic *Loramyces* W. Weston 1929

Phacidiaceae Fr.
Allantophomopsis Petr. 1925, anamorphic *Phacidium* Fr. 1815
Apostrasseria Nag Raj 1983, anamorphic *Lophophacidium* Lagerb. 1949 and *Phacidium* Fr. 1815
Blennoria Moug. & Fr. 1825, anamorphic *Phacidium* Fr. 1815
Ceuthospora Grev. 1826, anamorphic *Phacidium* Fr. 1815
?*Coma* Nag Raj & W.B. Kendr. 1972, anamorphic *Ascocoma* H.J. Swart

Rutstroemiaceae Holst-Jensen, L.M. Kohn & T. Schumacher
Helicodendron Peyronel 1918, anamorphic *Lambertella* Höhn. 1918
Myrioconium Syd. & P. Syd. 1912, ?anamorphic *Lanzia* Sacc. 1884, *Rutstroemia* P. Karst. 1871 and *Scleromitrula* S. Imai 1941
Phialophora-like, anamorphic *Rutstroemia* P. Karst. 1871

Sclerotiniaceae Whetzel ex Whetzel
Acarosporium Bubák & Vleugel ex Bubák 1911, anamorphic *Pycnopeziza* W.L. White & Whetzel 1938
Amerosporium Speg. 1882, anamorphic *Zoellneria* Velen. 1934
Amphobotrys Hennebert 1973, anamorphic *Botryotinia* Whetzel 1945
Botrytis P. Micheli ex Pers. 1794, anamorphic *Botryotinia* Whetzel 1945
Cristulariella Höhn. 1916, anamorphic *Nervostroma* Narumi & Y. Harada 2006
Haradamyces Masuya, Kusunoki, Kosaka & Aikawa 2009*
Hinomyces Narumi & Y. Harada 2006, anamorphic *Grovesinia* M.N. Cline, J.L. Crane & S.D. Cline 1983
Monilia Bonord. 1851, anamorphic *Monilinia* Honey 1928 and *Phaeosclerotinia* Hori 1916

Mycopappus Redhead & G.P. White 1985, anamorphic *Redheadia* Y. Suto & Suyama 2005
Myrioconium Syd. & P. Syd. 1912, anamorphic *Ciborinia* Whetzel 1945, *Encoelia* (Fr.) P. Karst. 1871, *Martininia* Dumont & Korf 1970, *Myriosclerotinia* N.F. Buchw. 1947 and *Sclerotinia* Fuckel 1870
Ovulitis N.F. Buchw. 1970, anamorphic *Ovulinia* F.A. Weiss 1940
Sclerotium Tode 1790, anamorphic *Myriosclerotinia* N.F. Buchw. 1947, *Sclerotinia* Fuckel 1870* and *Stromatinia* (Boud.) Boud. 1907*
Septotis N.F. Buchw. ex Arx 1970, anamorphic *Septotinia* Whetzel ex J.W. Groves & M.E. Elliott 1961
Streptobotrys Hennebert 1973, anamorphic *Streptotinia* Whetzel 1945
Valdensia Peyronel 1923, anamorphic *Valdensinia* Peyronel 1953
Verrucobotrys Hennebert 1973, anamorphic *Seaverinia* Whetzel 1945

Vibrisseaceae Korf
Acephala Grünig & T.N. Sieber 2005*
Anavirga B. Sutton 1975, anamorphic *Vibrissea* Fr. 1822
Phialocephala W.B. Kendr. 1961, some possibly anamorphic *Vibrissea* Fr. 1822*
Phialophora-like anamorphic *Chlorovibrissea* L.M. Kohn 1989

Helotiales, genera *incertae sedis*
Cadophora Lagerb. & Melin 1927*
Catenulifera Hosoya 2002, anamorphic *Hyphodiscus* Kirschst. 1906*
Chaetochalara B. Sutton & Piroz. 1965
Chalara (Corda) Rabenh. 1844*
Clathrosporium Nawawi & Kuthub. 1987
Crucellisporium M.L. Farr 1968*
Cystotricha Berk. & Broome 1850
Dactylaria Sacc. 1880
Diplococcium Grove 1885*
Endoconidium Prill. & Delacr. 1891, anamorphic *Gloeotinia* M. Wilson, Noble & E.G. Gray 1954
Fontanospora Dyko 1978*
Glarea Bills & Paláez 1999
Helgardia Crous & W. Gams 2003, anamorphic *Oculimacula* Crous & W. Gams 2003*
Hyalodendriella Crous 2007
Hyphodiscus Kirschst. 1906
Hysteropezizella Höhn. 1917
Leptodontidium de Hoog 1979*
Libartania Nag Raj 1979
Margaritispora Ingold 1942
Mirandina G. Arnaud ex Matsush. 1975
Monochaetiellopsis B. Sutton & DiCosmo 1977, anamorphic *Hypnotheca* Tommerup 1970
Mycochaetophora Hara & Ogawa 1931*
Neozythia Petr. 1958
Rhexocercosporidium U. Braun 1994*
Rhizocladosporium Crous & U. Braun 2007
Rhodesia Grove 1937
Rhynchosporium Heinsen ex A.B. Frank 1897*
Scytalidium Pesante 1957
Sphaerographium Sacc. 1884
Spirosphaera Beverw. 1953
Tetracladium De Wild. 1893
Thedgonia B. Sutton 1973*
Trimmatostroma Corda 1837
Variocladium Descals & Marvanová 1999*

Rhytismatales M.E. Barr ex Minter
Ascodichaenaceae D. Hawksw. & Sherwood
Dichaenopsella Petr. 1952, anamorphic *Ascodichaena* Butin 1977
Macroallantina Speer 1987, anamorphic *Delpinoina* Kuntze, 1891
Polymorphum Chevall. 1822, anamorphic *Ascodichaena* Butin 1977

Cryptomycetaceae Höhn.
?*Phacidiopycnis* Potebnia 1912, anamorphic *Potebniamyces* Smerlis 1962

Rhytismataceae Chevall.
Crandallia Ellis & Sacc. 1897, anamorphic *Bifusella* Höhn. 1917 and *Duplicaria* Fuckel 1870
Conostroma Moesz 1921, anamorphic *Colpoma* Wallr. 1833
Cryocaligula Minter 1986, anamorphic *Ploioderma* Darker. 1967

Hysterodiscula Petr. 1942, anamorphic *Duplicaria* Fuckel 1870
Leptostroma Fr. 1815, anamorphic *Lophodermium* Chevall. 1826
Melasmia Lév. 1846, anamorphic *Rhytisma* Fr. 1818*
Tryblidiopycnis Höhn. 1918, anamorphic *Tryblidiopsis* P. Karst. 1871

Rhytismatales, genera *incertae sedis*
Fuligomyces Morgan-Jones & Kamal 1984
Uyucamyces H.C. Evans & Minter 1985, anamorphic *Ocotomyces* H.C. Evans & Minter 1985

Leotiomycetes, families *incertae sedis*
Myxotrichaceae Currah
Geomyces Traaen 1914, anamorphic *Pseudogymnoascus* Raillo 1929
Gymnostellatospora Udagawa, Uchiy. & Kamiya 1993, ?anamorphic *Pseudogymnoascus* Raillo 1929
Oidiodendron Robak 1932, anamorphic *Byssoascus* Arx 1971 and *Myxotrichum* Kunze 1823
Malbranchea Sacc. 1882, ?anamorphic *Myxotrichum* Kunze 1823

Leotiomycetes, genera *incertae sedis*
Chaetomella Fuckel 1870
Collophora Damm & Crous 2010*
Eleutheromyces Fuckel 1870,
Geniculospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971
Hyphozyma de Hoog & M.T. Sm. 1981
Leohumicola N.L. Nick. 2005
Meliniomyces Hambl. & Sigler 2005
Scytalidium Pesante 1957, anamorphic *Xylogone* Arx & T. Nilsson 1969*
Tiarosporella Höhn. 1924, anamorphic *Darkera* H.S. Whitney, J. Reid & Piroz. 1975

Class *Orbiliomycetes* O.E. Erikss. & Baral
Orbiliales Baral, O.E. Erikss., G. Marson & E. Weber
Orbiliaceae Nannf.
Arthrobotrys Corda 1939, anamorphic *Orbilia* Fr. 1836*
Brachyphoris Juan Chen, L.L. Xu, B. Liu & Xing Z. Liu 2007, anamorphic *Hyalorbilia* Baral & G. Marson 2000
Dactylella Grove 1884, anamorphic *Orbilia* Fr. 1836
Dicranidion Harkn. 1885, anamorphic *Orbilia* Fr. 1836
Drechslerella Subram. 1964, anamorphic *Orbilia* Fr. 1836*
Dwayaangam Subram. 1978, anamorphic *Orbilia* Fr. 1836
Gamsylella M. Scholler, Hagedorn & A. Rubner 1999, anamorphic *Orbilia* Fr. 1836
Monacrosporium Oudem. 1885, anamorphic *Orbilia* Fr. 1836
Trinacrium Riess 1852, anamorphic *Orbilia* Fr. 1836

Class *Pezizomycetes* sensu O.E. Erikss. & Winka
Pezizales J. Schröt.
Ascobolaceae Boud. ex Sacc.
Rhizostilbella Wolk 1914, anamorphic *Ascobolus* Pers. 1792

Caloscyphaceae Harmaja
Geniculodendron G.A. Salt 1974, anamorphic *Caloscypha* Boud. 1885

Chorioactidaceae Pfister
Kumanasamuha P.Rag. Rao & D. Rao 1964, anamorphic *Chorioactis* Kupfer ex Eckblad 1968*
Verticicladium Preuss 1851, anamorphic *Desmazierella* Lib. 1829

Morchellaceae Reichenb.
Costantinella Matr. 1892, anamorphic *Morchella* Dill. ex Pers. 1794

Pezizaceae Dumort.
Chromelosporium Corda 1833, anamorphic *Muciturbo* P.H.B. Talbot 1989, *Peziza* Dill. ex Fr. 1822 and *Plicaria* Fuckel 1870
Glischroderma Fuckel 1870
Oedocephalum Preuss 1851, anamorphic *Iodophanus* Korf 1967 and *Peziza* Dill. ex Fr. 1822
Ostracoderma Fr. 1825, anamorphic *Peziza* Dill. ex Fr. 1822

Pyronemataceae Corda
Actinospora Ingold 1952,

Actinosporella Descals, Marvanová & J. Webster 1999, anamorphic *Miladina* Svrček 1972
Ascorhizoctonia Chin S. Yang & Korf 1985, anamorphic *Tricharina* Eckblad 1968
Complexipes C. Walker 1979, anamorphic *Tricharina* Eckblad 1968 and *Wilcoxina* Chin S. Yang & Korf 1985
Dichobotrys Hennebert 1973, ?anamorphic *Pyropyxis* Egger 1984 and *Trichophaea* Boud. 1885
Micronematobotrys Xiang Sun & L.D. Guo 2010
Scytalidium-like, anamorph of *Anthracobia* Boud. 1885

Rhizinaceae Bonord.
Phymatotrichopsis Hennebert 1973

Sarcoscyphaceae LeGal ex Eckblad
Molliardiomyces Paden 1984, anamorphic *Nanoscypha* Denison 1972, *Phillipsia* Berk. 1881, *Pithya* Fuckel 1870 and *Sarcoscypha* (Fr.) Boud. 1885

Sarcosomataceae Kobayasi
Conoplea Pers. 1797 and ?anamorphic *Plectania* Fuckel 1870
Strumella Fr. 1849, anamorphic *Urnula* Fr. 1849
Verticicladium Preuss 1851, anamorphic *Sarcosoma* Casp. 1891

Pezizales, genera *incertae sedis*
Cephaliophora Thaxt. 1903

Class *Sordariomycetes* *sensu* O.E. Erikss. & Winka
Subclass *Hypocreomycetidae* O.E. Erikss. & Winka
Coronophorales Nannf.
Chaetosphaerellaceae Huhndorf, A.N. Mill. & F.A. Fernández
Oedemium Link 1824, anamorphic *Chaetosphaerella* E. Müll. & C. Booth 1972
Veramycina Subram. 1995, anamorphic *Chaetosphaerella* E. Müll. & C. Booth 1972

Nitschkiaceae (Fitzp.) Nannf.
Acremonium-like anamorphic *Acanthonitschkea* Speg.

Hypocreales Lindau
Bionectriaceae Samuels & Rossman
Acremonium-like, anamorphic *Dimerosporiella* Speg. 1908, *Ijuhya* Starbäck 1899*, *Hydropisphaera* Dumont 1822*, *Lasionectria* (Sacc.) Cooke 1884, *Mycoarachis* Malloch & Cain 1970*, *Mycocitrus* Moller 1901, *Nectriella* Nitschke ex Fuckel 1870, *Nectriopsis* Maire 1911*, *Nigrosabulum* Malloch & Cain 1970*, *Protocreopsis* Yoshim. Doi 1977*, *Selinia* P. Karst. 1876*, and *Stilbocrea* Pat. 1900 and *Verrucostoma* Hirooka, Tak. Kobay. & Chaverri 2010*
Albosynnema E.F. Morris 1967
Clonostachys Corda 1839, anamorphic *Bionectria* Speg. 1919
Dendrodochium-like, anamorphic *Nectriella* Nitschke ex Fuckel 1870
Didymostilbe Henn. 1902, anamorphic *Peethambara* Subram. & Bhat 1978
Gliocladium-like, anamorphic *Roumegueriella* Speg. 1880
Gliomastix Guég. 1905, anamorphic *Hydropisphaera* Dumort. 1822*
Gracilistilbella Seifert 2000, anamorphic *Stilbocrea* Pat. 1900
Rhopalocladium Schroers, Samuels & W. Gams 1999, anamorphic *Nectriopsis* Maire 1911
Stanjemonium W. Gams, O'Donnell, Schroers & M. Chr. 1999
Stilbella-like, anamorphic *Stilbocrea* Pat. 1900
Tubercularia-like, anamorphic *Selinia* P. Karst. 1876
Verticillium-like, anamorphic *Nectriopsis* Maire 1911*
Vesicladiella Crous & M.J. Wingf. 1994

Clavicipitaceae (Lindau) Earle ex Rogerson
Acremonium-like, anamorphic *Neobarya* Lowen 1986
Albomyces I. Miyake 1908, anamorphic *Aciculosporium* I. Miyake
Aschersonia Mont. 1848, anamorphic *Hypocrella* Sacc. and *Moelleriella* Bres. 1897.*

Blistum B. Sutton 1973, anamorphic *Berkelella* (Sacc.) Sacc. 1891
Corallocytostroma Y.N. Yu & Z.Y. Zhang 1980
Drechmeria W. Gams & H.-B. Jansson 1985
Ephelis Fr. 1849, anamorphic *Atkinsonella* Diehl, *Balansia* Speg., 1885, *Epichloë* (Fr.) Tul. & C. Tul., 1865 and *Linearistroma* Höhn. 1910
Harposporium Lohde 1874, anamorphic *Podocrella* Seaver 1928
Hirsutella-like, anamorphic *Orbiocrella* D. Johnson, G.H. Sung, Hywel-Jones & Spatafora 2009 and *Moelleriella* Bres. 1897*
Metarhizium Sorokīn 1879, anamorphic *Metacordyceps* G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora 2007*
Neotyphodium Glenn, C.W. Bacon & Hanlin 1996, anamorphic *Epichloë* (Fr.) Tul. & C. Tul. 1865
Nomuraea Maubl. 1903
Polycephalomyces Kobayasi 1941, anamorphic *Berkelella* (Sacc.) Sacc. 1891
Pseudomeria G.L. Barron 1980
Sphacelia Lév. 1827, anamorphic *Atkinsonella* Diehl 1950 and *Claviceps* Tul. 1853

Cordycipitaceae Kreisel ex G.M. Sung, J.M. Sung, Hywel-Jones & Spatafora
Akanthomyces Lebert 1858, anamorphic *Cordyceps* Fr. 1824 and *Torrubiella* Boud. 1885*
Beauveria Vuill. 1912, anamorphic *Cordyceps* Fr. 1824
Engyodontium de Hoog 1978
Gibellula Cavara 1894, anamorphic *Torrubiella* Boud. 1885*
Granulomanus de Hoog & Samson 1978, anamorphic *Torrubiella* Boud. 1885
Isaria Pers. 1794
Lecanicillium W. Gams & Zare 2001, anamorphic *Cordyceps* Fr. 1824 and *Torrubiella* Boud. 1885*
Microhilum H.Y. Yip & A.C. Rath 1989
?*Microides* H.Y.Yip & A.C. Rath 1989
Pseudogibellula Samson & H.C. Evans 1973
Rotiferophthora G.L. Barron 1991
Simplicillium W. Gams & Zare 2001, possibly anamorphic *Torrubiella* Boud. 1885*

Hypocreaceae De Not.
Acremonium-like, anamorphic *Protocrea* Petch 1937 and *Pseudohypocrea* Yoshim. Doi 1972
Acrostalagmus Corda 1838
Arachnocrea Z. Moravec 1956, *Protocrea* Petch 1937 and *Sarawakus* Lloyd 1924
Cladobotryum Nees 1816, anamorphic *Hypomyces* (Fr.) Tul. & C. Tul. 1860
Gliocladium Corda 1840, anamorphic *Hypocrea* Fr. 1825* and *Sphaerostilbella* (P. Henn.) Sacc. & D. Sacc. 1905
Gliocladium-like, anamorphic *Sarawakus* Lloyd 1924
Mycogone Link 1809, anamorphic *Hypomyces* (Fr.) Tul. & C. Tul. 1860
Sepedonium Link 1809, anamorphic *Hypomyces* (Fr.) Tul. & C. Tul. 1860
Sibirina G.R.W. Arnold 1970, anamorphic *Hypomyces* (Fr.) Tul. & C. Tul. 1860
Stephanoma Wallr. 1833, anamorphic *Hypomyces* (Fr.) Tul. & C. Tul. 1860
Stromatocrea W.B. Cooke 1952, anamorphic *Hypocreopsis* P. Karst. 1873
Trichoderma Pers. 1794, anamorphic *Hypocrea* Fr. 1825 and *Podostroma* P. Karst. 1892
Trichoderma-like, anamorphic *Sarawakus* Lloyd 1924
Verticillium-like anamorphic *Aphysiostroma* Barrasa, A.T. Martínez & G. Moreno 1986*

Nectriaceae Tul. & C. Tul.
Acremonium-like, anamorphic *Cosmospora* Rabenh. 1862*, *Nectria* (Fr.) Fr. 1849 and *Neocosmospora* E.F. Sm. 1899
Actinostilbe Petch 1925, anamorphic *Lanatonectria* Samuels & Rossman 1999
Antipodium Piroz. 1974, anamorphic *Ophionectria* Sacc. 1878*
Aphanocladium W. Gams 1971
Calostilbella Höhn. 1919, anamorphic *Calostilbe* Sacc. & Syd. 1902
Chaetopsina Rambelli 1956, anamorphic *Chaetopsinectria* J. Luo & W.Y.

Zhuang* and *Cosmospora* Rabenh. 1862
Ciliciopodium violaceum Corda 1831, anamorphic *Nectria* (Fr.) Fr. 1849
Curvicladiella Decock & Crous 2006
Curvicladium Decock & Crous 1998
Cyanochyta Höhn. 1915, anamorph of *Gibberella* Sacc. 1877
Cyanophomella Höhn. 1918, anamorph of *Gibberella* Sacc. 1877
Cylindrocarpon Wollenw. 1913, anamorphic *Neonectria* Wollenw. 1917*
Cylindrocladiella Boesew. 1982, anamorphic *Cosmospora* Rabenh. 1862 and *Nectricladiella* Crous & C.L. Schoch 2000
Cylindrocladium Morgan 1892, anamorphic *Calonectria* De Not. 1867*
Dacryoma Samuels 1988, anamorphic *Nectria* (Fr.) Fr. 1849
Dematiocladium Allegr., Aramb., Cazau & Crous 2005
Dichomera Cooke 1878, type is anamorph of *Gibberella* Sacc. 1877
Flagellospora Ingold 1942, anamorphic *Nectria* (Fr.) Fr. 1849
Fusarium Link 1809, anamorphic ?*Albonectria* Rossman & Samuels 1999, *Cyanonectria* Samuels & Chaverri 2009*, *Gibberella* Sacc. 1877 and ?*Haematonectria* Samuels & Nirenberg 1999* and unknown teleomorphs*
Fusarium-like, anamorphic *Corallomycetella* Henn. 1904 and *Cosmospora* Rabenh. 1862
Fusidium Link 1809, type is anamorphic *Neonectria* Wollenw. 1917
Gliocephalotrichum J.J. Ellis & Hesselt. 1962, anamorphic *Leuconectria* Rossman, Samuels & Lowen 1993*
Gliocladiopsis S.B. Saksena 1954, anamorphic *Glionectria* Crous & S.L. Schoch 2000
Gyrostroma Naumov 1914, anamorphic *Nectria* (Fr.) Fr. 1849*
Heliscus Sacc. 1880, anamorphic *Nectria* (Fr.) Fr. 1849
Mariannaea G. Arnaud ex Samson 1974*
?*Mirandina* G. Arnaud ex Matsush. 1975, anamorphic *Chaetonectrioides* Matsush.
Nalanthamala Subram. 1956, anamorphic *Rubrinectria* Rossman & Samuels 1999
Penicillifer Emden 1968, anamorphic *Viridispora* Samuels & Rossman 1999*
Pleurocolla Petr. 1924
Rhizostilbella-like, anamorphic *Corallomycetella* Henn. 1904
Septofusidium W. Gams 1971
Stilbella Lindau 1900, anamorphic *Cosmospora* Rabenh. 1862
Trichothecium-like, anamorphic *Rodentomyces* Doveri, Pecchia, Sarrocco & Vannacci 2010*
Tubercularia Tode 1790, anamorphic *Nectria* (Fr.) Fr. 1849
Verticillium-like, anamorphic *Cosmospora* Rabenh. 1862*
Volutella Fr. 1832, anamorphic *Cosmospora* Rabenh. 1862 and *Pseudonectria* Seaver 1909*
Xenocylindrocladium Decock, Hennebert & Crous 1997, anamorphic *Xenocalonectria* Crous & C.L. Schoch 2000
Zythiostroma Höhn. ex Falck 1923, anamorphic *Nectria* (Fr.) Fr. 1849*

Niessliaceae Kirschst.
Acremonium-like, anamorphic *Trichosphaerella* E. Bommer, M. Rousseau & Sacc. 1891 and *Valetoniellopsis* Samuels & M.E. Barr 1998
Custingophora-like, anamorphic *Melanopsamma* Niessl 1876
Monocillium S.B. Saksena 1955, anamorphic *Hyaloseta* A.W. Ramaley 2001
Monocillium S.B. Saksena 1955, anamorphic *Niesslia* Auersw. 1869

Ophiocordycipitaceae G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora
?*Chaunopycnis* W. Gams 1979
Haptocillium W. Gams & Zare 2001
Hirsutella Pat. 1892, anamorphic *Ophiocordyceps* Petch 1931*
Hymenostilbe Petch 1931, anamorphic *Ophiocordyceps* Petch 1931
Paraisaria Samson & B.L. Brady 1983, anamorphic *Ophiocordyceps* Petch 1931*
Synglíocladium Petch 1932, anamorphic *Ophiocordyceps* Petch 1931
Tolypocladium W. Gams 1971, anamorphic *Elaphocordyceps* G.H. Sung & Spatafora 2007

Verticillium-like, anamorphic *Elaphocordyceps* G.H. Sung & Spatafora 2007

Hypocreales, genera *incertae sedis*
Acremonium Link 1809
Acremonium-like, anamorphic *Emericellopsis* J.F.H. Beyma 1940 and *Leucosphaerina* Arx 1987
Ascochytopsis-like, anamorphic *Eucasphaeria* Crous 2007
Calcarisporium Preuss 1851
Cancellidium Tubaki 1975
Cephalosporiopsis Peyronel 1915
Didymostilbe Henn. 1902, anamorphic *Peethambara* Subram. & Bhat 1978
Escovopsis J.J. Muchovej & Della Lucia 1990
Geosmithia Pitt 1979*
Hapsidospora Malloch & Cain 1970
Haptospora G.L. Barron 1991
Illosporiopsis D. Hawksw. 2001
Illosporium Mart. 1817
Imicles Shoemaker & Hambl. 2001
Memnoniella Höhn. 1923
Munkia Speg. 1886
Myrothecium Tode 1790
Neomunkia Petr. 1947
Pseudomicrodochium B. Sutton 1975
Sarocladium W. Gams & D. Hawksw. 1976
Septomyrothecium Matsush. 1971
Sorosporella Sorokīn 1888
Spicellum Nicot & Roquebert 1976
Sporothrix Hektoen & C.F. Perkins 1901, anamorphic *Leucosphaerina* Arx 1987
Stachybotrys Corda 1837
Stilbella Lindau 1900
Tilachlidium Preuss 1851
Trichothecium Link 1809
Ustilaginoidea Bref. 1895

Melanosporales N. Zhang & M. Blackw.
Ceratostomataceae G. Winter
Gonatobotrys Corda 1839, anamorphic *Melanospora* Corda 1837
Harzia Costantin 1888, anamorphic *Melanospora* Corda 1837
Papulaspora Preuss 1851, anamorphic ?-*Melanospora* Corda 1837
Proteophiala Cif. 1958, anamorphic *Melanospora* Corda 1837
[*Sphaerodes* Clem. 1909 is a teleomorph which was reported to produce ampulliform phialides on irregularly branched conidiophores diectrly on ascomata or on surrounding hyphae (Vujanovic & Goh, 2009)]

Microascales Luttr. ex Benny & Kimbr.
Chadefaudiellaceae Faurel & Schotter ex Benny & Kimbr.
Arthrographis–like, anamorphic *Faurelina* Locq.-Lin. 1975

Halosphaeriaceae E. Müll. & Arx ex Kohlm.
Cirrenalia Meyers & R.T. Moore 1960*
Clavariopsis-like, anamorphic *Corollospora* Werderm. 1922
Clavatospora Sv. Nilsson ex Marvanová & Sv. Nilsson 1971, anamorphic *Corollospora* Werderm. 1922
Culcitaina Meyers & R.T. Moore 1960
Halosigmoidea Nakagiri, K.L. Pang & E.B.G. Jones 2009, anamorphic *Corollospora* Werderm. 1922*
Humicola-like, anamorphic *Pseudolignincola* Chatmala & E.B.G. Jones 2006,
Monodictys-like, anamorphic *Nereiospora* E.B.G. Jones, R.G. Johnson & S.T. Moss 1983
Periconia-like, anamorphic *Halosphaeria* Linder 1944
Sigmoidea J.L. Crane 1968 anamorphic *Corollospora* Werderm. 1922
Trichocladium Harz 1871, anamorphic *Halosphaeria* Linder 1944
Varicosporina Meyers & Kohlm. 1965, anamorphic *Corollospora* Werderm. 1922*

Microascaceae Luttr. ex Malloch
Atrhrographis-like, anamorphic *Pithoascus* Arx 1973
Brachyconidiellopsis Decock, R.F. Castañeda & Adhikari 2004
Cephalotrichum Link 1809, anamorphic *Microascus* Zukal 1885
Echinobotryum Corda 1831
Graphium Corda 1837, anamorphic *Microascus* Zukal 1885, *Parascedosporium* Gilgado, Gené, Cano & Guarro 2007, *Petriella* Curzi 1930 and *Pseudallescheria* Negr. & I. Fisch. 1944*

Humicola-like, anamorphic *Lophotrichus* R.K. Benj. 1949
Parascedosporium Gilgado, Gené, Cano & Guarro 2007
Scedosporium Sacc. ex Castell. & Chalm. 1919, anamorphic *Pseudallescheria* Negr. & I. Fisch. 1944* and possibly *Petriella* Curzi 1930
Scopulariopsis Bainier 1907, anamorphic *Microascus* Zukal 1885 and ?*Petriella* Curzi 1930 and *Pithoascus* Arx 1973
Trichurus Clem. 1896
Wardomyces F.T. Brooks & Hansf. 1923, anamorphic *Microascus* Zukal 1885
Wardomycopsis Udagawa & Furuya 1978, anamorphic *Microascus* Zukal 1885

Microascales, genera *incertae sedis*
Bisporostilbella Brandsb. & E.F. Morris 1971
Chalara-like anamorphic *Ceratocystis* Ellis & Halst. 1890 and *Cornuvesica* C.D. Viljoen, M.J. Wingf. & K. Jacobs 2000
?*Custingophora* Stolk, Hennebert & Klopotek 1968, anamorphic *Gondwanamyces* G.J. Marais & M.J. Wingf. 1998*
Gabarnaudia Samson & W. Gams 1974, anamorphic *Sphaeronaemella* P. Karst. 1884*
Sporendocladia G. Arnaud ex Nag Raj & W.B. Kendr. 1975
Thielaviopsis Went 1893, anamorphic *Ceratocystis* Ellis & Halst. 1890

Hypocreomycetidae, families *incertae sedis*
Glomerellaceae Locq. ex Seifert & W. Gams
Colletotrichum Corda 1831, anamorphic *Glomerella* Spauld. & Schrenk 1903*

Plectosphaerellaceae W. Gams, Summerbell & Zare
Acremonium Link 1809*
Gibellulopsis Bat. & H. Maia 1959
Musicillium Zare & W. Gams 2007
Plectosporium M.E. Palm, W. Gams & Nirenberg 1995, anamorphic *Plectosphaerella* Kleb. 1929
Verticillium Nees 1816

Hypocreomycetidae, genera *incertae sedis*
Canalisporium Nawawi & Kuthub. 1989, anamorphic *Ascothailandia* Sri-indrasutdhi, Boonyuen, Sivichai & E.B.G. Jones 2010*
Dictyochaeta-like, anamorphic *Ascocodinaea* Samuels, Candoussau & Magni 1997
Glomerulispora Abdel-Wahab, Abdel-Aziz & Nagahama 2010, ?anamorphic *Torpedospora* Meyers 1957*
Moheitospora Abdel-Wahab, Abdel-Aziz & Nagahama 2010, anamorphic *Juncigena* Kohlm., Volkm.-Kohlm & O.E. Erikss. 1997*
Sporoschismopsis Hol.-Jech. & Hennebert 1972, anamorphic *Porosphaerellopsis* Samuels & E. Müll. 1982

Subclass *Sordariomycetidae* O.E. Erikss. & Winka
Calosphaeriales M.E. Barr*
Calosphaeriaceae Munk
Calosphaeriophora Réblová, L. Mostert, W. Gams & Crous 2004, anamorphic *Calosphaeria* Tul. & C. Tul.
Phaeocrella Réblová, L. Mostert, W. Gams & Crous 2004, anamorphic *Togniniella* Réblová, L. Mostert, W. Gams & Crous 2004
Phialophora-like, anamorphic *Jattaea* Berl. 1900
Stachybotrys-like, anamorphic *Jattaea* Berl. 1900

Pleurostomataceae Réblová, L. Mostert, W. Gams & Crous
Pleurostomophora Vijaykr., L. Mostert, Jeewon, W. Gams, K.D. Hyde & Crous 2004, anamorphic *Pleurostoma* Tul. & C. Tul. 1863

Chaetosphaeriales Huhndorf, A.N. Mill. & F.A. Fernández
Chaetosphaeriaceae Réblová, M.E. Barr & Samuels
Cacumisporium Preuss 1851, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Catenularia Grove 1886, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Chalara-like, anamorphic *Ascochalara* Réblová 1999 and *Chaetosphaeria* Tul. & C. Tul. 1863

Chloridium Link 1809, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863 and *Melanopsammella* Höhn. 1920
Codinaea Maire 1937, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Codinaeopsis Morgan-Jones 1976
Cordana Preuss 1851, ?anamorphic *Porosphaerella* E. Müll. & Samuels 1982
Craspedodidymum Hol.-Jech. 1972, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Cryptophiale Piroz. 1968, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Cylindrotrichum Bonord. 1851, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Dictyochaeta Speg. 1923, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863 and *Striatosphaeria* Samuels & E. Müll. 1979
Dictyochaetopsis Aramb. & Cabello 1990
Dischloridium B. Sutton 1977, anamorphic *Australiasca* Sivan. & Alcorn 2002
Exserticlava S. Hughes 1978, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Fusichalara S. Hughes & Nag Raj 1973, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Gonytrichum Nees & T. Nees 1818, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863 and ?*Melanopsammella* Höhn. 1920
Hemicorynespora M.B. Ellis 1972, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Kylindria DiCosmo, S.M. Berch & W.B. Kendr. 1983
Lecythothecium Réblová & Winka 2001
Menispora Pers. 1822, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Nawawia Marvanová 1980*
Paliphora Sivan. & B. Sutton 1985*
Phaeostalagmus W. Gams 1976, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Phialogeniculata Matsush. 1971
Phialophora-like, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863
Pseudobotrytis Krzemien. & Badura 1954, anamorphic *Porosphaerella* E. Müll. & Samuels 1982
Sporidesmium-like, anamorphic *Umbrinosphaeria* Réblová 1999
Sporoschisma Berk. & Broome 1847, anamorphic *Melanochaeta* E. Müll., Harr & Sulmont 1969
Thozetella Kuntze 1891
Zanclospora S. Hughes & W.B. Kendr. 1965, anamorphic *Chaetosphaeria* Tul. & C. Tul. 1863

Chaetosphaeriales, genera *incertae sedis*
Rattania Prabhugaonkar & Bhat 2009*

Coniochaetales Huhndorf, A.N. Mill. & F.A. Fernández
Coniochaetaceae Malloch & Cain
Lecythophora Nannf. 1934, anamorphic *Coniochaeta* (Sacc.) Cooke 1887*
Phialophora-like anamorphic *Barrina* A.W. Ramaley 1997

Diaporthales Nannf.
Cryphonectriaceae Gryzenh. & M.J. Wingf.
Aurapex Gryzenh. & M.J. Wingf. 2006
Chrysoporthella Gryzenh. & M.J. Wingf. 2004, anamorphic *Chrysoporthe* Gryzenh. & M.J. Wingf. 2004*
Endothiella Sacc. 1906, anamorphic *Cryphonectria* (Sacc.) Sacc. & D. Sacc. 1905*
Foliocryphia Cheewangkoon & Crous 2010*
Prosopidicola Crous & C.L. Lennox 2004
Ursicollum Gryzenh. & M.J. Wingf. 2006

Diaporthaceae Höhn. ex Wehm.
Mazzantiella Höhn. 1925, anamorphic *Mazzantia* Mont. 1855
Phomopsis (Sacc.) Bubák 1905, anamorphic *Diaporthe* Nitschke 1870

Gnomoniaceae G. Winter
Asteroma DC. 1815, anamorphic *Gnomoniella* Sacc. 1881 and *Plagiostoma* Fuckel 1870 and *Pleuroceras* Riess. The type of the genus is considered to be *Montagnellina stellaris* (Pers.) Theiss. & Syd. 1915
Cylindrosporella Höhn. 1916, type is anamorphic *Gnomonia* Ces. & De Not. 1863, others *Gnomoniella* Sacc. 1881 and *Pleuroceras* Riess 1854

Depazea Fr. 1818, ?anamorphic *Pleuroceras* Riess 1854
Diplodina Westend. 1857, anamorphic *Plagiostoma* Fuckel 1870
Discosporium Sacc. & P. Syd. 1902 anamorphic *Cryptodiaporthe* Petr. 1921 C. Tul.]
Discula Sacc. 1884, anamorphic *Apiognomonia* Höhn. 1917, *Gnomonia* Ces. & De Not. 1863 and *Amphiporthe* Petr. 1971
Gloeosporidina Petr. 1921, anamorphic *Apiognomonia* Höhn. 1917
Mazzantiella Höhn. 1925, anamorphic *Mamianiella* Höhn. 1917
Millerburtonia Cif. 1951, anamorphic *Plagiostoma* Fuckel 1870
Phaeocytostroma Petr. 1921, anamorphic *Clypeoporthe* Höhn 1919
Septogloeum Sacc. 1880, ?anamorphic *Pleuroceras* Riess 1854
Uniseta Ciccar. 1948, anamorphic *Plagiostoma* Fuckel 1870
?*Zythia* Fr. 1849

Melanconidaceae G. Winter
Dumortieria Westend. 1857 (as *Cytosporina* Sacc. 1884), anamorphic *Melanamphora* Lafl. 1976 and *Melogramma* Fr. 1849
Harknessia Cooke 1881, anamorphic *Wuestneia* Auersw. ex Fuckel 1863
Hendersonula Speg. 1880, anamorphic *Pseudovalsella* Höhn. 1918 and *Dictyoporthe* Petr. 1955
Mastigosporella Höhn. 1914, anamorphic *Wuestneiopsis* J. Reid & Dowsett 1990
Melanconiopsis Ellis & Everh. 1900, anamorphic *Massariovalsa* Sacc. 1882
Melanconium Link 1809, anamorphic *Melanconis* Tul. & C. Tul. 1863
Stilbospora Pers. 1794, ?anamorphic *Prosthecium* Fresen. 1852
Tubakia B. Sutton 1973, anamorphic *Dicarpella* Syd. & P. Syd. 1921

Pseudoplagiostomaceae Cheewangkoon, M.J. Wingf. & Crous
Cryptosporiopsis-like, anamorphic *Pseudoplagiostoma* Cheewangkoon, M.J. Wingf. & Crous 2010*

Pseudovalsaceae M.E. Barr
Coryneum Nees 1816, anamorphic *Pseudovalsa* Ces. & De Not. 1863

Schizoparmeaceae Rossman
Coniella Höhn. 1918*
Pilidiella Petr. & Syd. 1927, anamorphic *Schizoparme* Shear 1923*

Sydowiellaceae Lar. N. Vassiljeva
Cylindrosporella Höhn. 1916, anamorphic *Stegophora* Syd. & P. Syd. 1916
Phoma-like, anamorphic *Hapalocystis* Auersw. ex Fuckel 1863

Togniniaceae Réblová, L. Mostert, W. Gams & Crous
Phaeoacremonium W. Gams, Crous & M.J. Wingf. 1996, anamorphic *Togninia* Berl. 1900

Valsaceae Tul. & C. Tul.
Amphicytostroma Petr. 1921, anamorphic *Amphiporthe* Petr. 1971
Cytospora Ehrenb. 1818, anamorphic *Leucostoma* (Nitschke) Höhn. 1917*, *Valsa* Fr. 1849*, *Valsella* Fuckel 1870 and *Valseutypell*a Höhn. 1919
Harpostroma Höhn. 1928, anamorphic *Leptosillia* Höhn. 1928
Lasmenia Speg. 1886, ?anamorphic *Chadefaudiomyces* Kamat, Rao, Patil & Ullasa 1974
Phomopsis (Sacc.) Bubák 1905, anamorphic *Clypeoporthella* Petr. 1924

Diaporthales, genera *incertae sedis*
?*Greeneria* Scribn. & Viala 1887
Apoharknessia Crous & S.J. Lee 2004
Apomelasmia Grove 1937
Asterosporium Kunze 1819*
Craspedodidymum Hol.-Jech. 1972, anamorphic *Thailandiomyces* Pinruan, Sakay., K.D. Hyde & E.B.G. Jones 2008
Cytospora-like, anamorphic *Pachytrype* Berl. ex M.E. Barr, J.D. Rogers & Y.M. Ju 1993
Dwiroopa Subram. & Muthumary
Hypodermina Höhn. 1916
Macrohilum H.J. Swart 1988
Natarajania Pratibha & Bhat 2006*

Phomopsis-like, anamorphic *Caudospora* Starbäck 1889
Rabenhorstia Fr. 1849, anamorphic *Hercospora* Fr. 1825
Sirococcus Preuss 1855
Stenocarpella Syd. & P. Syd. 1917
Synchaetomella Decock & Seifert 2005

Magnaporthales Thongk., Vijakr. & K.D. Hyde
Magnaporthaceae P.F. Cannon
Clasterosporium Schwein. 1832, anamorphic *Clasterosphaeria* Sivan. 1984
Harpophora W. Gams 2000, anamorphic *Gaeumannomyces* Arx & D.L. Olivier 1952
Mycoleptodiscus Ostaz. 1968, anamorphic *Omnidemptus* P.F. Cannon & Alcorn 1994
Pyricularia Sacc. 1880, anamorphic *Magnaporthe* R.A. Krause & R.K. Webster 1972

Ophiostomatales Benny & Kimbr.
Kathistaceae Malloch & M. Blackw.
Mattirolella S. Colla 1929
Termitaria Thaxt. 1920
Termitariopsis M. Blackw., Samson & Kimbr. 1980

Ophiostomataceae Nannf.
Acremonium-like, anamorphic *Fragosphaeria* Shear 1923
Ambrosiella Brader ex Arx & Hennebert 1965, anamorphic *Grosmannia* Goid. 1936 and *Ophiostoma* Syd. & P. Syd. 1919*
Dryadomyces Gebhardt 2005, anamorphic *Grosmannia* Goid. 1936*
Graphilbum H.P. Upadhyay & W.B. Kendr. 1975, anamorphic *Ophiostoma* Syd. & P. Syd. 1919
Graphium Corda 1837, anamorphic *Ophiostoma* Syd. & P. Syd. 1919*
Hyalobelemnospora Matsush. 1993, anamorphic *Subbaromyces* Hesselt. 1953
Hyalorhinocladiella H.P. Upadhyay & W.B. Kendr. 1975, anamorphic *Ceratocystiopsis* H.P. Upadhyay & W.B. Kendr. 1975, and *Ophiostoma* Syd. & P. Syd. 1919*
Hyalorhinocladiella-like, anamorphic *Klasterskya* Petr. 1940
Leptographium Lagerb. & Melin 1927, anamorphic *Grosmannia* Gold. 1936 and *Ophiostoma* Syd. & P. Syd. 1919*
Pesotum J.L. Crane & Schokn. 1973, anamorphic *Ophiostoma* Syd. & P. Syd. 1919*
Pesotum-like, anamorphic *Grosmannia* Gold. 1936
Phialographium H.P. Upadhyay & W.B. Kendr. 1974, anamorphic *Ophiostoma* Syd. & P. Syd. 1919
Raffaelea Arx & Hennebert 1965, anamorphic *Grosmannia* Goid. 1936*
Sporothrix Hektoen & C.F. Perkins 1901, anamorphic *Ophiostoma* Syd. & P. Syd. 1919*

Sordariales Chad. ex D. Hawksw. & O.E. Erikss.
Chaetomiaceae G. Winter
Botryotrichum Sacc. & Marchal 1885, anamorphic *Chaetomium* Kunze 1817
Humicola Traaen 1914
Papulaspora Preuss 1851, anamorphic *Chaetomium* Kunze 1817
Phialophora-like, anamorph of *Chaetomidium* (Zopf) Sacc. 1882
Taifanglania Z.Q. Liang, Y.F. Han, H.L. Chu & R.T.V. Fox 2009
Trichocladium Harz 1871

Lasiosphaeriaceae Nannf.
Angulimaya Subram. & Lodha 1964, anamorphic *Bombardioidea* C. Moreau ex N. Lundqv. 1972
?*Bagadiella* Cheewangkoon & Crous 2010*
Cladorrhinum Sacc. & Marchal 1885, anamorphic *Apiosordaria* Arx & W. Gams 1967, *Cercophora* Fuckel 1870 and *Podospora* Ces. 1856*
Mammaria Ces. ex Rabenh. 1854, anamorphic *Pseudocercophora* Subram. & Sekar 1986
Phialophora-like, anamorphic *Cercophora* Fuckel 1870, *Eosphaeria* Höhn. 1917, *Lasiosphaeria* Ces. & De Not. 1863 and *Podospora* Ces. 1856

Sordariaceae G. Winter
Chrysonilia Arx 1981, anamorphic *Neurospora* Shear & B.O. Dodge 1927
?*Virgariella*-like, anamorphic *Effetia* Bartoli, Maggi & Persiani 1984

Sordariales, genera *incertae sedis*
Madurella Brumpt 1905
Ramophialophora M. Calduch, Stchigel, Gené & Guarro 2004*
?*Trichocladium*-like, anamorphic *Ascolacicola* Ranghoo & K.D. Hyde 1998
Ypsilonia Lév. 1846, anamorphic *Acanthotheciella* Höhn. 1911

Sordariomycetidae, families *incertae sedis*
Amplistromataceae Huhndorf, A.N. Mill., M. Greif & Samuels
Acrodontium-like, anamorphic *Amplistroma* Huhndorf, A.N. Mill., M. Greif & Samuels 2009*
Pseudogliomastix W. Gams 1985, anamorphic *Wallrothiella* Sacc. 1882

Annulatascaceae S.W. Wong, K.D. Hyde & E.B.G. Jones
Phaeoisaria-like, anamorphic *Rhamphoria* Niessl 1876
Phialophora-like, anamorphic *Teracosphaeria* Réblová & Seifert 2007

Cephalothecaceae Höhn.
Acremonium-like, anamorphic *Albertiniella* Kirschst. 1936
Chalara-like, anamorphic *Cryptendoxyla* Malloch & Cain 1970
Phialemonium W. Gams & McGinnis 1983

Helminthosphaeriaceae Samuels, Candoussau & Magní
Diplococcium Grove 1885, anamorphic *Helminthosphaeria* Fuckel 1870
Endophragmiella B. Sutton 1973, anamorphic *Echinosphaeria* A.N. Mill. & Huhndorf 2004
Selenosporella-like, anamorphic *Ruzenia* O. Hilber 2002
Spadicoides S. Hughes 1958, anamorphic *Tengiomyces* Réblová 1999
Vermiculariopsiella Bender 1932, anamorphic *Echinosphaeria* A.N. Mill. & Huhndorf 2004*

Sordariomycetidae, genera *incertae sedis*
Brachysporiella Bat. 1952, anamorphic *Ascotaiwania* Sivan. & H.S. Chang 1992
Conioscypha Höhn. 1904, anamorphic *Conioscyphascus* Réblová & Seifert 2004
Endophragmiella-like, anamorphic *Phaeotrichosphaeria* Sivan. 1983
Menisporopsis S. Hughes 1952, anamorphic *Menisporopascus* Matsush. 2003
Phialophora-like, anamorphic *Linocarpon* Syd. & P. Syd. 1917
Pleurothecium Höhn. 1919, anamorphic *Carpoligna* F.A. Fernández & Huhndorf 1999
Ramichloridium-like, anamorphic *Barbatosphaeria* Reblova 2008
Rhodoveronaea Arzanlou, W. Gams & Crous 2007*
Spadicoides S. Hughes 1958*
Sporothrix-like, anamorphic *Barbatosphaeria* Reblova 2008

Subclass *Xylariomycetidae* sensu O.E. Erikss. & Winka
Xylariales Nannf.
Amphisphaeriaceae G. Winter
Bartalinia Tassi 1900
?*Beltraniella* Subram. 1952, ?anamorphic *Leiosphaerella* Höhn. 1919
Bleptosporium Steyaert 1961, anamorphic *Amphisphaeria* Ces. & De Not. 1863
Ceratosporium Schwein. 1832, anamorphic *Iodosphaeria* Samuels, E. Müll. & O. Petrini 1987
?*Chaetoconis* Clem. 1909, anamorphic *Ceriospora* Niessl 1876
Discosia Lib. 1837
Doliomyces Steyaert 1961
?*Hyalotiopsis* Punith. 1970, anamorphic *Ellurema* Nag Raj & W.B. Kendr. 1986
Labridella Brenckle 1929, anamorphic *Griphosphaerioma* Höhn. 1918
Labridium Vestergr. 1897, anamorphic *Discostroma* Clem. 1909

Microdochium Syd. 1924, anamorphic *Monographella* Petr. 1924
Monochaetia (Sacc.) Allesch. 1902
Monochaetinula Muthumary, Abbas & B. Sutton 1986
Monochaetiopsis L. Cai, Jeewon & K.D. Hyde 2003, anamorphic *Dyrithiopsis* L. Cai, R. Jeewon & K.D. Hyde 2003
Morinia Berl. & Bres. 1889
?*Pestalotia* De Not. 1841, anamorphic *Broomella* Sacc. 1883
Pestalotiopsis Steyaert 1949, anamorphic *Neobroomella* Petr. 1947 and *Pestalosphaeria* M.E. Barr 1975
Phlogicylindrium Crous, Summerb. & Summerell 2006
Sarcostroma Cooke 1871, anamorphic *Griphosphaerioma* Höhn. 1918
Seimatosporium Corda 1833, anamorphic anamorphic *Discostroma* Clem. 1909
Seiridium Nees 1816, anamorphic *Blogiascospora* Shoemaker, E. Müll. & Morgan-Jones 1966 and *Lepteutypa* Petr. 1923
?*Selenosporella* G. Arnaud ex MacGarvie 1969, anamorphic *Oxydothis* Penz. & Sacc. 1898
Selenosporella-like, anamorphic *Iodosphaeria* Samuels, E. Müll. & O. Petrini 1987
Sporocadus Corda 1839
Synnemapestaloides T. Handa & Y. Harada 2004
?*Truncatella* Steyaert 1949 anamorphic *Broomella* Sacc. 1883
Zetiasplozna Nag Raj 1993

Diatrypaceae Nitschke
Dumortieria Westend. 1857 (some as *Cytosporina* Sacc. 1884), anamorphic *Cryptosphaeria* Ces. & De Not. 1863, *Diatrype* Fr. 1849, *Eutypa* Tul. & C. Tul. 1863 and *Eutypella* (Nitschke) Sacc. 1875
Libertella Desm. 1830, anamorphic *Diatrype* Fr. 1849, *Diatrypella* (Ces. & De. Not.) De. Not. 1863, *Eutypa* Tul. & C. Tul. 1863 and *Eutypella* (Nitschke) Sacc. 1875

Hyponectriaceae Petr.
Aureobasidium Viala & G. Boyer 1891, *Discosphaerina* Höhn. 1917
Beltraniella Subram. 1952, anamorphic *Pseudomassaria* Jacz. 1894
Hormonema-like, anamorphic *Discosphaerina* Hohn 1917
Kabatia Bubák 1904, anamorphic *Discosphaerina* Höhn. 1917
Kabatiella Bubák 1907, anamorphic *Discosphaerina* Höhn. 1917
Sarcophoma Höhn. 1916, anamorphic *Discosphaerina* Hohn 1917
Selenophoma Maire 1907, anamorphic *Discosphaerina* Hohn 1917

Graphostromataceae M.E. Barr, J.D. Rogers & Y.M. Ju
Nodulisporium-like, anamorphic *Graphostroma* Piroz. 1974

Xylariaceae Tul. & C. Tul.
Acanthodochium Samuels, J.D. Rogers & Nagas., anamorphic *Astrocystis* Berk. & Broome and *Collodiscula* I. Hino & Katum. 1955
Arthroxylaria Seifert & W. Gams 2002
Dematophora R. Hartig 1883, anamorphic *Rosellinia* De Not. 1844*
?*Dicyma* Boulanger 1897, anamorphic *Ascotricha* Berk. 1838
Geniculisynnema Okane & Nakagiri 2007, anamorphic *Nemania* Gray 1821
Geniculosporium Chesters & Greenh. 1964, anamorphic *Entoleuca* Syd. 1922, *Leprieuria* Laessøe, J.D. Rogers & Whalley 1989, *Nemania* Gray 1821, *Phylacia* Lév. 1845, *Podosordaria* Ellis & Holw. 1897, *Rosellinia* De Not. 1844 and *Xylaria* Hill ex Schrank 1789
Geniculosporium-like, anamorphic *Halorosellinia* Whalley, E.B.G. Jones, K.D. Hyde & Læssøe 2000, *Jumillera* J.D. Rogers, Y.M. Ju & San Martín 1997 and *Kretzschmaria* Fr. 1849
Hypocreodendron Henn. 1897, anamorphic *Discoxylaria* J.C. Lindq. & J.E. Wright 1964
Libertella Desm. 1830
Libertella-like, anamorphic *Barrmaelia* Rappaz 1995, *Creosphaeria* Theiss. 1910, *Jumillera* J.D. Rogers, Y.M. Ju & San Martín 1997 and *Lopadostoma* (Nitschke) Traverso 1906

Lindquistia Subram. & Chandrash. 1977, anamorphic *Poronia* Willd. 1787
Masoniomyces J.L. Crane & Dumont 1975, anamorphic *Camillea* Fr. 1849
Mirandina-like, anamorphic *Kretzschmariella* Viégas 1944
Moelleroclavus Henn. 1902, anamorphic *Xylaria* Hill ex Schrank 1789
Muscodor Worapong, Strobel & W.M. Hess 2001
Nodulisporium Preuss 1849, anamorphic *Annulohypoxylon* Y.M. Ju, J.D. Rogers & H.M. Hsieh 2005, *Biscogniauxia* Kuntze 1891, *Daldinia* Ces. & De Not. 1863, *Entonaema* Möller 1901, *Hypoxylon* Bull. 1791*, *Induratia* Samuels, E. Müll. & O. Petrini, *Pyrenomyxa* Morgan 1895 (as *Pulveria* Malloch & Rogerson 1977), *Thamnomyces* Ehrenb. 1820, *Theissenia* Maubl. 1914, *Thuemenella* Penz. & Sacc. 1898 and *Xylaria* Hill ex Schrank
Nodulosporium-like, anamorphic *Rhopalostroma* D. Hawksw. 1977 and *Ruwenzoria* J. Fornier, M. Stadler, Læssøe & C. Decock 2010*
Padixonia Subram. 1972, anamorphic *Xylaria* Hill ex Schrank
Rhinocladiella-like, anamorphic *Obolarina* Pouzar 1986
Sporothrix-like, anamorphic *Rostrohypoxylon* J. Fourn. & M. Stadler 2010* and *Ruwenzoria* J. Fornier, M. Stadler, Læssøe & C. Decock 2010*
Triplicaria P. Karst. 1889, anamorphic *Hypoxylon* Bull. 1791
Virgaria Nees 1816, anamorphic *Ascovirgaria* J.D. Rogers & Y.M. Ju 2002
Virgariella-like, anamorphic *Hypoxylon* Bull. 1791*
Vivantia J.D. Rogers, Y.M. Ju & Cand. 1996
Xylocladium P. Syd. ex Lindau 1900, anamorphic *Camillea* Fr. 1849
Xylocoremium J.D. Rogers 1984, anamorphic *Xylaria* Hill ex Schrank 1789

Xylariales, genera *incertae sedis*
Basifimbria Subram. & Lodha 1968
Chaetochalara B. Sutton & Piroz. 1965
Chalara (Corda) Rabenh. 1844*
Hadrotrichum Fuckel 1865
Humicola-like, anamorphic *Ascotrichella* Valldos. & Guarro 1988
Melanographium Sacc. 1913, possibly anamorphic *Lasiobertia* Sivan. 1978
Nodulisporium-like, anamorphic *Coniolariella* D. Garcıá, Stchigel & Guarro
Rhinocladiella-like, anamorphic *Coniolariella* D. Garcıá, Stchigel & Guarro
Selenosporella-like, anamorphic *Diatrypasimilis* J. Zhou, & Kohlm. 2010*

Sordariomycetes, orders *incertae sedis*
Lulworthiales Kohlm., Spatafora & Volkm.-Kohlm.
Lulworthiaceae Kohlm., Spatafora & Volkm.-Kohlm.
Anguillospora Ingold 1942, anamorphic *Lindra* I.M. Wilson 1956
Cumulospora I. Schmidt 1985, anamorphic *Lulwoana* Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan 2005 and *Lulworthia* G.K. Sutherl. 1916*
Halazoon Abdel-Aziz, Abdel-Wahab & Nagahama 2010, and *Lulworthia* G.K. Sutherl. 1916*
Hydea K.L. Pang & E.B.G. Jones 2010*
Matsusporium E.B.G. Jones & K.L. Pang 2010*
Moleospora Abdel-Wahab, Abdel-Aziz & Nagahama 2010*
Moromyces Abdel-Wahab, K.L. Pang, Nagahama, Abdel-Aziz & E.B.G. Jones 2010
Zalerion R.T. Moore & Meyers 1962, anamorphic *Lulwoana* Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan 2005*

Phyllachorales M.E. Barr
Phyllachoraceae Theiss. & H. Syd.
Acerviclypeatus Hanlin 1990, anamorphic *Ophiodothella* Boyd 1934
Baeumleria Petr. & Syd. 1927, anamorphic *Phyllachora* Nitschke ex Fuckel 1870 (as *Trabutia* Sacc. & Roum. 1881)
Colletogloeum-like, anamorphic *Coccodiella* Hara 1909
Cyclodomus Höhn. 1909, anamorphic *Maculatifrons* K.D. Hyde 1996
Diachorella Höhn. 1918, anamorphic *Diachora* Müll. 1893

Hysterodiscula Petr. 1942, anamorphic *Orphnodactylis* Malloch & A. Mallik 1998
Linochora Höhn. 1910, anamorphic *Phyllachora* Nitschke ex Fuckel 1870
Mycohypallage B. Sutton 1963, anamorphic *Deshpandiella* Kamat & Ullasa 1973
Oswaldina Rangel 1921, anamorphic *Apiosphaeria* Höhn. 1909
Polystigmina Sacc. 1884, anamorphic *Polystigma* DC. 1815
Pseudothiopsella Petr. 1928, anamorphic *Pseudothiella* Petr. 1928
Rhodosticta Woron. 1911, anamorphic *Polystigma* DC. 1815 and *Stigmatula* (Sacc.) Syd. & P. Syd. 1901

Trichosphaeriales M.E. Barr 1983
Trichosphaeriaceae G. Winter 1885
Brachysporium Sacc. 1886, anamorphic *Cryptadelphia* Réblová & Seifert 2004
Koorchaloma Subram. 1953, anamorphic *Kananascus* Nag Raj 1984
Stanjehughesia Subram. 1992, anamorphic *Miyoshiella* Kawam. 1929 and *Umbrinosphaeria* Réblová 1999
Stromatographium Höhn. 1907, anamorphic *Fluviostroma* Samuels & E. Müll. 1980

Sordariomycetes, family *incertae sedis*
Apiosporaceae K.D. Hyde, J. Fröhlich, Joanne E. Taylor & M.E. Barr
Arthrinium Kunze 1817, anamorphic *Apiospora* Sacc. 1875
Cordella Speg. 1886, anamorphic *Apiospora* Sacc. 1875
Pteroconium Sacc. ex Grove 1914, anamorphic *Apiospora* Sacc. 1875
Scyphospora L.A. Kantsch. 1928, anamorphic *Apiospora* Sacc. 1875

Thyridiaceae O.E. Erikss. & J.Z. Yue
Pleurocytospora Petr. 1923, anamorphic *Thyridium* Nitschke 1867

Sordariomycetes, genera *incertae sedis*
Cryptomycella Höhn. 1925, anamorphic *Cryptomycina* Höhn. 1977
?*Custingophora* Stolk, Hennebert & Klopotek 1968*
Didymostilbe-like, anamorphic *Ornatispora* K.D. Hyde, Goh, Joanne E. Taylor, J. Fröhl. 1999
Dinemasporium Lév. 1846, anamorphic *Phomatospora* Sacc. 1875
Ellisembia Subram. 1992
Myrmecridium Arzanlou, W. Gams & Crous 2007
Nigrospora Zimm. 1902, anamorphic *Khuskia* H.J. Huds. 1963
Penicillifer Emden 1968, anamorphic *Stellosetifera* Matsush.1996
Phomatosporella Tak. Kobay. & K. Sasaki 1982, anamorphic *Phomatospora* Sacc. 1875
Ramichloridium-like, anamorphic *Tectonidula* Réblová 2009*
Selenosporella G. Arnaud ex MacGarvie 1969
Sporothrix-like, anamorphic *Phomatospora* Sacc. 1875 and *Tectonidula* Réblová 2009*

ASCOMYCOTA, families *incertae sedis*

Families and genera that cannot be placed in any of the classes and orders accepted in the present classification with a high degree of probability are listed below.

Amorphothecaceae Parbery
Hormoconis Arx & G.A. de Vries 1973, anamorphic *Amorphotheca* Parbery 1969

Batistiaceae Samuels & K.F. Rodrigues
Acrostroma Seifert 1987, anamorphic *Batistia* Cif. 1958

Pseudeurotiaceae Malloch & Cain
Teberdinia Sogonov, W. Gams, Summerb. & Schroers 2005, anamorphic *Pseudeurotium* J.F.H. Beyma 1937

Seuratiaceae Vuill. ex M.E. Barr
Atichia Flot. 1850, anamorphic *Seuratia* Pat. 1904

ASCOMYCOTA, genera *incertae sedis*
Abgliophragma R.Y. Roy & Gujarati 1966
Abropelta B. Sutton 1986
Acanthoderma Syd. & P. Syd. 1917
Acarellina Bat. & H. Maia 1960

Acaroconium Kocourk. & D. Hawksw. 2008
Acarocybellina Subram. 1992
Acarocybiopsis J. Mena, A. Hern. Gut. & Mercado 1999
Acaropeltis Petr. 1937
Achoropeltis Syd. 1929
Acicullariella G. Arnaud 1954
Acinula Fr. 1822
Acontium Morgan 1902
Acremoniula G. Arnaud 1954
Acrocybe Syd. 1937
Acroconidiellina M.B. Ellis 1971
Acrocylindrium Bonord 1851
Acrodictyella W.A. Baker & Partr. 2001
Acrodictyopsis P.M. Kirk 1983
Acrodictys M.B. Ellis 1961
Acrodontiella U. Braun & Scheuer 1995
Acrodontium de Hoog 1972
Acrophialophora Edward 1961
Acrophragmis Kiffer & Reisinger 1970
Acrospeira Berk. & Broome 1857
Acrospira Mont. 1857
Acrosporium Bonord. 1851
Acrostaurus Deighton & Piroz. 1972
Acrotheciella Koord. 1907
Acrothecium (Corda) Preuss 1851
Actinochaete Ferro 1907
Actinocladium Ehrenb. 1819
Actinodochium Syd. 1927
Actinonema Pers. 1822
Actinotexis Arx 1960
Actinothecium Ces. 1854
Actinothyrium Kunze 1823
Acumispora Matsush. 1980
Aegeritella Bałazy & J. Wiśn. 1974
Aenigmatospora R.F. Castañeda, Saikawa, Guarro & Calduch 1999
Agaricodochium X.J. Liu 1981
Agarwalia D.P. Tiwari & P.D. Agrawal 1974
Agarwalomyces R.K. Verma & Kamal 1987
Agrabeeja Subram. 1995
Agyriella Sacc. 1884
Agyriellopsis Höhn. 1903
Ahmadia Syd. 1939
Ajrekarella Kamat & Kalani 1964
Alatosessilispora K. Ando & Tubaki 1984
Albophoma Tak. Kobay., Masuma, Omura & Kyoto Watan. 1994
Alciphila Harmaja 2002
Aleurodomyces Buchner 1912
Algonquinia R.F. Castañeda & W.B. Kendr. 1991
Allonema Syd. 1934
Alloneottiosporina Nag Raj 1993
Allothyriella Bat., Cif. & Nascim. 1959
Allothyrina Bat. & J.L. Bezerra 1964
Allothyriopsis Bat., Cif. & H. Maia 1959
Alpakesa Subram. & K. Ramakr. 1954
Alpakesiopsis Abbas, B. Sutton, Ghaffar & A. Abbas 2003
Alveophoma Alcalde 1952
Alysidiella Crous 2006
Alysidiopsis B. Sutton 1973
Amallospora Penz. 1897
Amblyosporium Fresen. 1863
Amerodiscosiella M.L. Farr 1961
Amerodiscosiellina Bat. & Cavalc. 1966
Amerosporiopsis Petr. 1941
Amerosympodula Matsush. 1996
Amoenodochium Peláez & R.F. Castañeda 1996
Amoenomyces R.F. Castañeda, Saikawa & Hennebert 1996
Amphichaetella Höhn. 1916
Amphophialis R.F. Castañeda, W.B. Kendr. & Guarro 1998
Amphoropycnium Bat. 1963
Ampullicephala R.F. Castañeda, Minter & M. Stadler 2009*
Ampullifera Deighton 1960
Ampulliferina B. Sutton 1969
Ampulliferinites Kalgutkar & Sigler 1995, fossil fungi
Anaphysmene Bubák 1906
Anarhyma M.H. Pei & Z.W. Yuan 1986
Anaselenosporella Heredia, R.F. Castañeda & R.M. Arias 2010*
Ancoraspora Mig. Rodr. 1982
Ancorasporella J. Mena, Mercado & Heredia 1998
Angiopomopsis Höhn. 1912
Angulospora Sv. Nilsson 1962
Annellodentimyces Matsush. 1985
Annellodochium Deighton 1969
Annellolacinia B. Sutton 1964
Annellophora S. Hughes 1952
Annellophorella Subram. 1962
Annellophragmia Subram. 1963
Annellosympodia McTaggart, R.G. Shivas & U. Braun 2007
Antennopsis R. Heim 1952

Anthina Fr. 1832
Anthopsis Fil. March., A. Fontana & Luppi Mosca 1977
Anthracoderma Speg. 1888
Antromyces Fresen. 1850
Anulohypha Cif. 1962
Aoria Cif. 1962
Aphanofalx B. Sutton 1986
Apiocarpella Syd. & P. Syd. 1919
Apogloeum Petr. 1954
Aporellula B. Sutton 1986
Aposporella Thaxt. 1920
Arachnophora Hennebert 1963
Arachnospora R.F. Castañeda, Minter & Camino 2003
Arborillus Munt.-Cvetk. & Gómez-Bolea 1998
Arborispora K. Ando 1986
Arbusculina Marvanová & Descals 1987
Arcuadendron Sigler & J.W. Carmich. 1976
Argopericonia B. Sutton & Pascoe 1987
Aristastoma Tehon 1933
Arnaudina Trotter 1931
Arthrobotryum Ces. 1854
Arthrocladium Papendorf 1969
Arthrocristula Sigler, M.T. Dunn & J.W. Carmich. 1982
Arthrosporium Sacc. 1880
Arthrowallemia R.F. Castañeda, Dania García & Guarro 1998
Articularia Höhn. 1909
Articulophora C.J.K. Wang & B. Sutton 1982
Artocarpomyces Subram. 1996
Arxiella Papendorf 1967
Asbolisiomyces Bat. & H. Maia 1961
Ascochytopsis Henn. 1905
Ascochytulina Petr. 1922
Ascospora Mont. 1849
Ashtaangam Subram. 1995
Aspilaima Bat. & H. Maia 1961
Astelechia Cif. 1962
Asterinothyriella Bat. & Cif. 1959
Asterinothyrium Bat., Cif. & H. Maia 1959
Asteroconium Syd. & P. Syd. 1903
Asterostomopora Bat. & H. Maia 1960
Asterostomopsis Bat., Cif. & H. Maia 1959
Asterostomulina Bat., J.L. Bezerra & H. Maia 1964
Astrodochium Ellis & Everh. 1897
Astronatelia Bat. & H. Maia 1962
Atractilina Dearn. & Barthol. 1924
Atractium Link 1809
Atrosetaphiale Matsush. 1995
Aurantiosacculus Dyko & B. Sutton 1979
Aurosphaeria Sun J. Lee, Strobel, Eisenman, Geary, Vargas & S.A. Strobel 2009
Avesicladiella W.P. Wu, B. Sutton & Gange 1997
Avettaea Petr. & Syd. 1927
Bachmanniomyces D. Hawksw. 1981
Bacillopeltis Bat. 1957
Bactridium Kunze 1817
Bactrodesmiella M.B. Ellis 1959
Badarisama Kunwar, J.B. Manandhar & J.B. Sinclair 1986
Bahuchashaka Subram. 1978
Bahukalasa Subram. & Chandrash. 1979
Bahusandhika Subram. 1956
Balaniopsis P.M. Kirk 1985
Balanium Wallr. 1833
Barbarosporina Ķirulis 1942
Barnettella D. Rao & P.Rag. Rao 1964
Basauxia Subram. 1995
Basididyma Cif. 1962
Basramyces Abdullah, Abdulk. & Goos 1989
Batistina Peres 1961
Beauveriphora Matsush 1975
Beccopycnidium F. Stevens 1930
Beejadwaya Subram. 1978
Belemnospora P.M. Kirk 1981
Bellulicauda B. Sutton 1967
Beltrania Penz. 1882
Beltraniopsis Bat. & J.L. Bezerra 1960
Beniowskia Racib. 1900
Benjaminia S. Ahmad 1967
Benjpalia Subram. & Bhat 1989
Bharatheeya D'Souza & Bhat 2002
Bhargavaella Sarj. Singh & K.S. Srivast. 1980
Bhatia W.A. Baker & Morgan-Jones 2009*
Bibanasiella R.F. Castañeda & W.B. Kendr. 1991
Biflagellospora Matsush. 1975
Biflagellosporella Matsush. 1993
Bilboque Viégas 1960
Bilgramia Panwar, Purohit & Chouhan 1974
Bimeris Petr. 1949
Bioconiosporium Bat. & J.L. Bezerra 1964

Biophomopsis Petr. 1931
Bispora Corda 1837
Bisseomyces R.F. Castañeda 1985
Bizzozeriella Speg. 1888
Blarneya D. Hawksw., Coppins & P. James 1980
Blastacervulus H.J. Swart 1988
Blastocatena Subram. & Bhat 1989
Blastoconium Cif. 1931
Blastodictys M.B. Ellis 1976
Blastofusarioides Matsush. 1996
Blastophorella Boedijn 1937
Blastophorum Matsush. 1971
Blastophragma Subram. 1995
Blennoriopsis Petr. 1919
Blodgettia Harv. 1858
Bomplandiella Speg. 1886
Bostrichonema Ces. 1867
Botryodeorsum T.P. Devi, N. Mathur, Chowdhry, Jasvir Singh & O. Prakash 2006 *Botryoderma* Papendorf & H.P. Upadhyay 1969
Botryodiplodina Dias & Sousa da Câmara 1954
Botryomonilia Goos & Piroz. 1975
Botryomyces Greco 1916
Botryosporium Corda 1831
Brachydesmiella G. Arnaud ex S. Hughes 1961
Brachyhelicoon G. Arnaud 1952
Brachysporiellina Subram. & Bhat 1989
Brachysporiopsis Yanna, W.H. Ho & K.D. Hyde 2004
Brefeldiopycnis Petr. & Cif. 1932
Brevicatenospora R.F. Castañeda, Minter & Saikawa 2006
Briosia Cavara 1888
Broomeola Kuntze 1891
Brycekendrickia Nag Raj 1973
Bulbilopycnis Matsush. 1996
Bulbocatenospora R.F. Castañeda & Iturr. 2000
Bullaserpens Bat., J.L. Bezerra & Cavalc. 1965
Cacumisporium Preuss 1851
Calcarispora Marvanová & Marvan 1963
Calcarispora Marvanová & Marvan 1963
Calcarisporiella de Hoog 1974
Callistospora Petr. 1955
Calocline Syd. 1939
Camarographium Bubák 1916
Camaropycnis E.K. Cash 1945
Camarosporellum Tassi 1902
Camarosporiopsis Abbas, B. Sutton & Ghaffar 2000
Camarosporulum Tassi 1902
Camposporidium Nawawi & Kuthub. 1988
Camposporium Harkn. 1884
Camptomeris Syd. 1927
Campylospora Ranzoni 1953
Candelabrum Beverw. 1951
Candelosynnema K.D. Hyde & Seifert 1992
Capillaria Pers. 1822
Capitorostrum Bat. 1957
Capsicumyces Gamundí, Aramb. & Giaiotti 1979
Carmichaelia N.D. Sharma 1980
Carrismyces R.F. Castañeda & Heredia 2000
Castanedaea W.A. Baker & Partr. 2001
Catenella Bat. & Peres 1963
Catenocuneiphora Matsush. 2003
Catenophora Luttr. 1940
Catenophoropsis Nag Raj & W.B. Kendr. 1988
Catenospegazzinia Subram. 1991
Catenosubulispora Matsush. 1971
Catenosynnema Kodsueb, K.D. Hyde & W.H. Ho 2007
Catenulaster Bat. & C.A.A. Costa 1959
Catinopeltis Bat. & C.A.A. Costa 1957
Catinula Lév. 1848
Ceeveesubramaniomyces Pratibha, K.D. Hyde & Bhat 2005
Cephalodochium Bonord. 1851
Ceracea Cragin 1885
Ceratocladium Corda 1839
Ceratophorum Sacc. 1880
Ceratopycnis Höhn. 1915
Ceratosporella Höhn. 1923
Cercosperma G. Arnaud ex B. Sutton & Hodges 1983
Ceuthosira Petr. 1924
Ceuthosporella Petr. & Syd. 1923
Chaetantromycopsis H.P. Upadhyay, Cavalc. & A.A. Silva 1986
Chaetendophragmia Matsush. 1971
Chaetendophragmiopsis B. Sutton & Hodges 1978
Chaetoblastophorum Morgan-Jones 1977
Chaetoconidium Zukal 1887
Chaetocytostroma Petr. 1920
Chaetodiplis Clem. 1931

Chaetodiplodia P. Karst. 1884
Chaetodiplodina Speg. 1910
Chaetopeltaster Katum. 1975
Chaetophiophoma Speg. 1910
Chaetophoma Cooke 1878
Chaetopsis Grev. 1825
Chaetopyrena Pass. 1881
Chaetoseptoria Tehon 1937
Chaetostromella P. Karst. 1895
Chalarodendron C.J.K. Wang & B. Sutton 1984
Chalarodes McKenzie 1991
Chantransiopsis Thaxt. 1914
Characonidia Bat. & Cavalc. 1965
Chardonia Cif. 1930
Charomyces Seifert 1987
Chasakopama Manohar., Bagyan., N.K. Rao & Kunwar 2009*
Cheilaria Lib. 1830
Cheiroidea W.A. Baker & Morgan-Jones 2009*
Cheiromyceopsis Mercado & J. Mena 1988
Cheiromyces Berk. & M.A. Curtis 1857
Cheiromycina B. Sutton 1986
Cheiropolyschema Matsush. 1980
Cheirospora Moug. & Fr. 1825
Chiastospora Riess 1852
Chikaneea B. Sutton 1973
Chionomyces Deighton & Piroz. 1972
Chithramia Nag Raj 1988
Chlamydomyces Bainier 1907
Chlamydopsis Hol.-Jech. & R.F. Castañeda 1986
Chlamydorubra K.B. Deshp. & K.S. Deshp. 1966
Choanatiara DiCosmo 1984
Choreospora Constant. & R. Sant. 1987
Chromosporium Corda 1829
Chrysachne Cif. 1938
Chrysalidopsis Steyaert 1961
Chuppia Deighton 1965
Cicadocola Brain 1923
Ciferria Gonz. Frag. 1925
Ciferriella Petr. 1930
Ciferrina Petr. 1932
Ciferriopeltis Bat. & H. Maia 1965
Ciliochora Höhn. 1919
Ciliochorella Syd. 1935
Ciliophora Petr. 1929
Ciliophorella Petr. 1940
Ciliosporella Petr. 1927
Circinoconis Boedijn 1942
Circinotrichum Nees 1816
Cirrosporium S. Hughes 1980
Cissococcomyces Brain 1923
Civisubramaniania Vittal & Dorai 1986
Cladochasiella Marvanová 1997
Cladoconidium Bandoni & Tubaki 1985
Cladographium Peyronel 1918
Cladoniicola Diederich, van den Boom & Aptroot 2001
Cladosporiella Deighton 1965
Clasteropycnis Bat. & Cavalc. 1963
Clathroconium Samson & H.C. Evans 1982
Clauzadeomyces Diederich 1994
Clavariana Nawawi 1976
Cleistocystis Sousa da Câmara 1931
Cleistophoma Petr. & Syd. 1927
Clithramia Nag Raj 1988
Clohesyomyces K.D. Hyde 1993
Clypeochorella Petr. 1923
Clypeopatella Petr. 1942
Clypeophialophora Bat. & Peres 1962
Clypeopycnis Petr. 1925
Clypeoseptoria F. Stevens & P.A. Young 1925
Clypeostagonospora Punith. 1981
Coccogloeum Petr. 1955
Codonmyces Calat. & Etayo 1999
Coelographium (Sacc.) Gäum. 1920
Coelosporium Link 1824
Colemaniella Agnihothr. 1974
Coleodictyospora Charles 1929
Coleophoma Höhn. 1907
Coleoseptoria Petr. 1940
Colispora Marvanová 1988
Collecephalus J.A. Spencer 1972
Collembolispora Marvanová & Pascoal 2003
Colletoconis de Hoog & Aa 1978
Colletosporium Link 1824
Collodochium Höhn. 1902
Collostroma Petr. 1947
Columnodomus Petr. 1941
Columnophora Bubák & Vleugel 1916
Columnothyrium Bubák 1916
Comatospora Piroz. & Shoemaker 1971
Comocephalum Syd. 1939
Condylospora Nawawi 1976
Coniambigua Etayo & Diederich 1995
Conicomyces R.C. Sinclair, Eicker & Morgan-Jones 1983

Conidiocarpus Woron. 1927
Conioscyphopsis Goh & K.D. Hyde 1998
Coniothyrina Syd. 1912
Coniozyma Crous 2008
Conjunctospora Udagawa & Uchiy. 1999
Conostoma Bat. & J.L. Bezerra 1965
Consetiella Hol.-Jech. & Mercado 1982
Cooksonomyces H.J. Swart & D.A. Griffiths 1974
Corallinopsis Lagarde 1917
Corallomyces Fr. 1849
Cordana Preuss 1851
Coremiella Bubák & K. Krieg. 1912
Corethropsis Corda 1839
Cornucopiella Höhn. 1915
Cornutispora Piroz. 1973
Cornutostilbe Seifert 1990
Corynecercospora V.K. Pal, Akhtar, N. Ahmad, Kamal & D.K. Agarwal 2006
Corynesporella Munjal & H.S. Gill 1961
Corynesporina Subram. 2009*
Corynesporopsis P.M. Kirk 1981
Costanetoa Bat. & J.L. Bezerra 1963
Craneomyces Morgan-Jones, R.C. Sinclair & Eicker 1987
Cremasteria Meyers & R.T. Moore 1960
Creodiplodina Petr. 1957
Creonecte Petr. 1949
Creoseptoria Petr. 1937
Creothyriella Bat. & C.A.A. Costa 1957
Cribropeltis Tehon 1933
Crinitospora B. Sutton & Alcorn 1985
Cristula Chenant. 1920
Crucellisporiopsis Nag Raj 1983
Crustodiplodina Punith. 1988
Cryptoceuthospora Petr. 1921
Cryptocoryneopsis B. Sutton 1980
Cryptocoryneum Fuckel 1870
Cryptophiale Piroz. 1968
Cryptophialoidea Kuthub. & Nawawi 1987
Cryptosporium Kunze 1817
Cryptostroma P.H. Greg. & S. Waller 1952
Cryptumbellata Udagawa & Uchiy. 1999
Ctenosporium R. Kirschner 2006
Cubasina R.F. Castañeda 1986
Culicidospora R.H. Petersen 1960
Culicinomyces Couch, Romney & B. Rao 1974
Curculiospora G. Arnaud 1954
Curucispora Matsush. 1981
Curvidigitus Sawada 1943
Curvulariopsis M.B. Ellis 1961
Cyanopatella Petr. 1949
Cyclomarsonina Petr. 1965
Cylindrocarpostylus R. Kirschner & Oberw. 1999
Cylindrogloeum Petr. 1941
Cylindromyces Manohar., D.K. Agarwal & N.K. Rao 2004
Cylindrothyrium Maire 1907
Cylindroxyphium Bat. & Cif. 1963
Cymbothyrium Petr. 1947
Cyrenella Goch. 1981
Cystidiella Malan 1943
Cystotrichiopsis B.A. Abbas, B. Sutton & Ghaffar 2001
Cytodiscula Petr. 1931
Cytogloeum Petr. 1925
Cytonaema Höhn. 1914
Cytoplacosphaeria Petr. 1920
Cytopleastrum Abbas, B. Sutton, Ghaffar & A. Abbas 2004
Cytosphaera Died. 1916
Cytosporella Sacc. 1884
Cytostagonospora Bubák 1916
Dacrymycella Bizz. 1885
Dactylifera Alcorn 1987
Dactylosporium Harz 1871
Dasysticta Speg. 1912
Davisiella Petr. 1924
Dearnessia Bubák 1916
Deccanodia Singhai 1974
Deichmannia Alstrup & D. Hawksw. 1990
Delortia Pat. & Gaillard 1888
Dendroclathra Voglmayr & G. Delgado 2001
Dendrodomus Bubák 1915
Dendrographiella Agnihothr. 1972
Dendrographium Massee 1892
Dendroseptoria Alcalde 1948
Dendrospora Ingold 1943
Dendrosporium Plakidas & Edgerton ex J.L. Crane 1972
Dendryphiosphaera Lunghini & Rambelli 1978
Dennisographium Rifai 1977
Denticularia Deighton 1972
Dentocircinomyces R.F. Castañeda & W.B. Kendr. 1990
Derexia Naras. 1970
Descalsia A. Roldán & Honrubia 1989
Desertella Mouch. 1979

Desmidiospora Thaxt. 1891
Dexhowardia J.J. Taylor 1970
Diademospora B.E. Söderstr. & Bååth 1979
Dialaceniopsis Bat. 1959
Diaphanium Fr. 1836
Diarimella B. Sutton 1980
Dicellispora Sawada 1944
Dichelostroma Bat. & Peres 1963
Dicholobodigitus G.P. White & Illman 1988
Dichotomophthora Mehrl. & Fitzp. ex P.N. Rao 1966
Dichotomophthoropsis M.B. Ellis 1971
Dictyoarthrinium S. Hughes 1952
Dictyoarthrinopsis Bat. & Cif. 1958
Dictyocatenulata Finley & E.F. Morris 1967
Dictyodesmium S. Hughes 1951
Dictyophrynella Bat. & Cavalc. 1964
Dictyopolyschema M.B. Ellis 1976
Dictyorostrella U. Braun 1999
Dictyospiropes M.B. Ellis 1976
Didymobotryum Sacc. 1886
Didymochaeta Sacc. & Ellis 1898
Didymochaetina Bat. & J.L. Bezerra 1965
Didymopsis Sacc. & Marchal 1885
Didymosporina Höhn. 1916
Didymothozetia Rangel 1915
Didymotrichella G. Arnaud 1954
Diedickea Syd. & P. Syd. 1913
Digitodochium Tubaki & Kubono 1989
Digitomyces Mercado, M. Calduch & Gené 2003
Digitopodium U. Braun, Heuchert & K. Schub. 2005
Digitoramispora R.F. Castañeda & W.B. Kendr. 1990
Digitosarcinella S. Hughes 1984
Dimastigosporium Faurel & Schotter 1965
Diplocladiella G. Arnaud ex M.B. Ellis 1976
Diplodinis Clem. 1931
Diplodinula Tassi 1902
Diplolaeviopsis Giralt & D. Hawksw. 1991
Diploöspora Grove 1916
Diploplenodomus Died. 1912
Diplozythiella Died. 1916
Discocolla Prill. & Delacr. 1894
Discogloeum Petr. 1923
Discomycetoidea Matsush. 1993
Discosiellina Subram. & K.R.C. Reddy 1972
Discosporina Höhn. 1927
Discotheciella Syd. & P. Syd 1917
Discozythia Petr. 1922
Dissoacremoniella Kiril. 1970
Ditangifibula G.C. Adams 1996
Divinia Cif. 1955
Domingoella Petr. & Cif. 1932
Dothideodiplodia Murashk. 1927
Dothioropsis Riedl 1974
Drechsleromyces Subram. 1978
Drepanospora Berk. & M.A. Curtis 1875
Drudeola Kuntze 1891
Drumopama Subram. 1957
Dryosphaera Jørg. Koch & E.B.G. Jones 1989
Dualomyces Matsush. 1987
Dwayabeeja Subram. 1958
Dwayaloma Subram. 1957
Dwayalomella Brisson, Piroz. & Pauzé 1975
Dwibahubeeja N. Srivast., A.K. Srivast. & Kamal 1995
Dwibeeja Subram. 1995
Dwiroopella Subram. & Muthumary 1986
Echinocatena R. Campb. & B. Sutton 1977
Echinochondrium Samson & Aa 1975
Echinoconidiophorum Pereira-Carv. & Dianese 2009*
Elachopeltella Bat. & Cavalc. 1964
Elattopycnis Bat. & Cavalc. 1964
Elegantimyces Goh, K.M. Tsui & K.D. Hyde 1998
Eleutheromycella Höhn. 1908
Ellisiella Bat. 1956
Elotespora R.F. Castañeda & Heredia 2010*
Enantioptera Descals 1983
Endobotrya Berk. & M.A. Curtis 1874
Endobotryella Höhn. 1909
Endocalyx Berk. & Broome 1876
Endoconospora Gjaerum 1971
Endocoryneum Petr. 1922
Endogenospora R.F. Castañeda, O. Morillo & Minter 2010*
Endophragmiopsis M.B. Ellis 1966
Endoplacodium Petr. 1949
Endoramularia Petr. 1923
Endosporoideus W.H. Ho, Yanna, K.D. Hyde & Goh 2005

Endostilbum Malençon 1964
Endozythia Petr. 1959
Enerthidium Syd. 1939
Engelhardtiella A. Funk 1973
Enridescalsia R.F. Castañeda & Guarro 1998
Enthallopycnidium F. Stevens 1925
Entoderma Hanula, Andreadis & M. Blackw. 1991
Epaphroconidia Calat. & V. Atienza 1995
Ephelidium C.W. Dodge & E.D. Rudolph 1955
Epicladonia D. Hawksw. 1981
Epiclinium Fr. 1849
Epicoccospora Budathoki & S.K. Singh 1995
Epidermidophyton E. Lang 1879
Epidochiopsis P. Karst. 1892
Episporogoniella U. Braun 1994
Epistigme Syd. 1924
Erysiphopsis Speg. 1910
Erythrogloeum Petr. 1953
Esdipatilia Phadke 1981
Esteya J.Y. Liou, J.Y. Shih & Tzean 1999
Eurotiopsis P. Karst. 1889
Evanidomus Caball. 1941
Everhartia Sacc. & Ellis 1882
Everniicola D. Hawksw. 1982
Eversia J.L. Crane & Schokn. 1977
Evlachovaea Borisov & Tarasov 1999
Excipularia Sacc. 1884
Excipulariopsis P.M. Kirk & Spooner 1982
Exochalara W. Gams & Hol.-Jech. 1976
Exophoma Weedon 1926
Exosporella Höhn. 1912
Exosporiella P. Karst. 1892
Exosporium Link 1809
Exserticlava S. Hughes 1978
Favostroma B. Sutton & E.M. Davison 1983
Fecundostilbum Prameela & Chowdhry 2009*
Feltgeniomyces Dieder. 1990
Fenestroconidia Calat. & Etayo 1999
Filosporella Nawawi 1976
Fissuricella Pore, D'Amatao & Ajello 1977
Flabellocladia Nawawi 1985
Flabellospora Alas. 1968
Flagellospora Ingold 1942
Flahaultiella Seifert 2009*
Flosculomyces B. Sutton 1978
Frigidispora K.D. Hyde & Goh 1999
Fujimyces Minter & Caine 1980
Fuligomyces Morgan-Jones & Kamal 1984
Funicularius K.K. Baker & Zaim 1979
Furcaspora Bonar 1965
Fusamen (Sacc.) P. Karst. 1890
Fusariella Sacc. 1884
Fusariopsis Horta 1919
Fuscophialis B. Sutton 1977
Fusella Sacc. 1886
Fusicatena K. Matsush. & Matsush. 1996
Fusichalara S. Hughes & Nag Raj 1973
Fusicolla Bonord. 1851
Fusisporella Speg. 1910
Fusticeps J. Webster & R.A. Davey 1980
Gamosporella Speg. 1888
Gampsonema Nag Raj 1975
Gangliophora Subram. 1992
Gangliostilbe Subram. & Vittal 1976
Garnaudia Borowska 1977
Gaubaea Petr. 1942
Geastrumia Bat. 1960
Gelatinocrinis Matsush. 1995
Gelatinopycnis Dyko & B. Sutton 1979
Geminoarcus K. Ando 1993
Gemmulina Descals & Marvanová 1999
Geniopila Marvanová & Descals 1985
Geosmithia Pitt 1979*
Gerulajacta Preuss 1855
Gilmaniella G.L. Barron 1964
Giulia Tassi 1904
Glaphyriopsis B. Sutton & Pascoe 1987
Glenosporopsis O.M. Fonseca 1943
Glioannellodochium Matsush. 1989
Glioblastocladium Matsush. 1989
Gliophragma Subram. & Lodha 1964
Globoconidiopsis G.F. Sepúlveda, Pereira-Carv. & Dianese 2009*
Globoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese 2009*
Globuliroseum Sullia & K.R. Khan 1984
Gloeodes Colby 1920
Gloeosporiella Cavara 1892
Gloiosphaera Höhn. 1902
Glutinium Fr. 1849
Glycyphila Mont. 1851
Goidanichiella G.L. Barron ex W. Gams 2009*
Gonatobotryum Sacc. 1880
Gonatophragmiella Rak. Kumar, A.N. Rai & Kamal 1994

Gonatorrhodum Corda 1839
Goniopila Marvanová & Descals 1985
Gonyella Syd. & P. Syd. 1919
Goosiella Morgan-Jones, Kamal & R.K. Verma 1986
Goosiomyces N.K. Rao & Manohar. 1989
Gorgomyces M. Gönczöl & Révay 1985
Grallomyces F. Stevens 1918
Granularia Sacc. & Ellis ex Sacc. 1882
Graphiothecium Fuckel 1870
Groveolopsis Boedijn 1951
Gymnoxyphium Cif., Bat. & I.J. Araujo 1963
Gyoerffyella Kol 1928
Gyrothrix (Corda) Corda 1842
Hadronema Syd. & P. Syd. 1909
Hadrosporium Syd. 1938
Halysiomyces E.G. Simmons 1981
Halysium Corda 1837
Hansfordia S. Hughes 1951
Hansfordiopeltis Bat. & C.A.A. Costa 1956
Hansfordiopeltopsis M.L. Farr 1986
Hapalosphaeria Syd. 1908
Haplariella Syd. & P. Syd. 1908
Haplariopsis Oudem. 1903
Haplobasidion Erikss. 1889
Haplolepis Syd. 1925
Haplosporidium Speg. 1912
Haptocara Drechsler 1975
Harmoniella V.N. Boriss. 1981
Harpagomyces Wilcz. 1911
Harpographium Sacc. 1880
Hawksworthia Manohar., N.K. Rao, D.K. Agarwal & Kunwar 2004
Hawksworthiana U. Braun 1988
Heimiodora Nicot 1960
Helhonia B. Sutton 1980
Helicoceras Linder 1931
Helicofilia Matsush. 1983
Helicogoosia Hol.-Jech. 1991
Helicominopsis Deighton 1960
Helicorhoidion S. Hughes 1958
Helicosingula P.S. van Wyk, Marasas, Baard & Knox-Dav. 1985
Helicosporina G. Arnaud ex Rambelli 1960
Helicostilbe Höhn. 1902
Helicothyrium I. Hino & Katum. 1961
Helicoubisia Lunghini & Rambelli 1979
Heliocephala V.G. Rao, K.A. Reddy & de Hoog 1984
Heliscella Marvanová 1980
Heliscina Marvanová 1980
Helminthophora Bonord. 1851
Helminthosporiomyces G.F. Sepúlveda, Pereira-Carv. & Dianese 2009*
Hemibeltrania Piroz. 1963
Hemicorynesporella Subram. 1992
Hemidothis Syd. & P. Syd. 1916
Hemisphaeropsis Petr. 1947
Hemisynnema Subram. 1995
Hendersoniella Tassi 1900
Hendersonina E.J. Butler 1913
Hendersoniopsis Höhn. 1918
Hendersonulina Petr. 1951
Henicospora P.M. Kirk & B. Sutton 1980
Hennebertia M. Morelet 1969
Hermatomyces Speg. 1910
Herposira Syd. 1938
Herreromyces R.F. Castañeda & W.B. Kendr. 1991
Heterocephalum Thaxt. 1903
Heteroconidium Sawada 1944
Heterosporiopsis Petr. 1950
Hexacladium D.L. Olivier 1983
Heydenia Fresen. 1852
Himantia Pers. 1801
Hinoa Hara & I. Hino 1961
Hirudinaria Ces. 1856
Hobsoniopsis D. Hawksw. 2001
Hoehneliella Bres. & Sacc. 1902
Holubovaea Mercado 1983
Holubovaniella R.F. Castañeda 1985
Homalopeltis Bat. & Valle 1961
Hormiactella Sacc. 1886
Hormiactis Preuss 1851
Hormiscioideus M. Blackw. & Kimbr. 1979
Hormisciopsis Sumst. 1914
Hormocephalum Syd. 1939
Hormocladium Höhn. 1923
Hormococcus Robak 1956
Hormographis Guarro, Punsola & Arx 1986
Hughesinia J.C. Lindq. & Gamundí 1970
Humicolopsis Cabral & S. Marchand 1976
Humicolopsis Verona 1977
Hyalocamposporium Révay & J. Gönczöl 2007
Hyalocladium Mustafa 1977
Hyalodictyum Woron. 1916
Hyalohelicomina T. Yokoy. 1974

Hyaloplеiochaeta R.F. Castañeda, Guarro & Cano 1996
Hyalosynnema Matsush. 1975
Hyalothyridium Tassi 1900
Hyalotiastrum Abbas, B. Sutton, Ghaffar & Abbas 2003
Hyalotiella Papendorf 1967
Hydrometrospora J. Gönczöl & Révay 1985
Hymenella Fr. 1822
Hymeniopeltis Bat. 1959
Hymenobactron (Sacc.) Höhn. 1916
Hymenopsis Sacc. 1886
Hyphochlaena Cif. 1962
Hyphodiscosia Lodha & K.R.C. Reddy 1974
Hyphodiscosioides Matsush. 1993
Hyphopolynema Nag Raj 1977
Hyphostereum Pat. 1892
Hyphothyrium B. Sutton & Pascoe 1989
Hypocline Syd. 1939
Hypogloeum Petr. 1923
Hysteridium P. Karst. 1905
Hysteropycnis Hilitzer 1929
Ialomitzia Gruia 1964
Icerymyces Brain 1923
Idiocercus B. Sutton 1967
Impudentia Vujanović 2003
Inesiosporium R.F. Castañeda & W. Gams 1997
Infrafungus Cif. 1951
Infundibulomyces Plaingam, Somrith. & E.B.G. Jones 2003
Inifatiella R.F. Castañeda 1985
Intercalarispora J.L. Crane & Schokn. 1983
Ionophragmium Peres 1961
Irpicomyces Deighton 1969
Isariella Henn. 1908
Ischnostroma Syd. & P. Syd. 1914
Isthmolongispora Matsush. 1971
Isthmophragmospora Kuthub. & Nawawi 1992
Isthmotricladia Matsush. 1971
Ityorhoptrum P.M. Kirk 1986
Iyengarina Subram. 1958
Jahniella Petr. 1921
Jainesia Gonz. Frag. & Cif. 1925
Janetia M.B. Ellis 1976
Javonarxia Subram. 1995
Jerainum Nawawi & Kuthub. 1992
Jubispora B. Sutton & H.J. Swart 1986
Junctospora Minter & Hol.-Jech. 1981
Junewangia W.A. Baker & Morgan-Jones 2002
Kalchbrenneriella Diederich & M.S. Christ. 2002
Kaleidosporium Van Warmelo & B. Sutton 1981
Kamatella Anahosur 1969
Kameshwaromyces Kamal, R.K. Verma & Morgan-Jones 1986
Karsteniomyces D. Hawksw. 1980
Kionocephala P.M. Kirk 1986
Kionochaeta P.M. Kirk & B. Sutton 1986
Kmetia Bres. & Sacc. 1902
Kmetiopsis Bat. & Peres 1960
Knemiothyrium Bat. & J.L. Bezerra 1960
Knufia L.J. Hutchison & Unter. 1996
Kodonospora K. Ando 1993
Kolletes Kohlm. & Volkm.-Kohlm. 2005
Kontospora A. Roldán, Honrubia & Marvanová 1990
Koorchalomella Chona, Munjal & J.N. Kapoor 1958
Korunomyces Hodges & F.A. Ferreira 1981
Kostermansinda Rifai 1968
Kostermansindiopsis R.F. Castañeda 1986
Kramabeeja G.V. Rao & K.A. Reddy 1981
Kramasamuha Subram. & Vittal 1973
Kreiseliella Braun 1991
Krishnamyces Hosag. 2003
Kyphophora B. Sutton 1991
Lacellina Sacc. 1913
Lacellinopsis Subram. 1953
Lachnodochium Marchal 1895
Laciniocladium Petri 1917
Lactydina Subram. 1978
Laeviomyces D. Hawksw. 1981
Lagenomyces Cavalc. & A.A. Silva 1972
Lambdasporium Matsush. 1971
Lambinonia Sérus. & Diederich 2005
Lamproconium (Grove) Grove 1937
Lappodochium Matsush. 1975
Lasiodiplodiella Zambett. 1955
Lasiophoma Speg. 1918
Lasiothyrium Syd. & P. Syd. 1913
Lasmenia Speg. 1886
Lasmeniella Petr. & Syd. 1927
Latericonis G.V. Rao, K.A. Reddy & de Hoog 1984
Lateriramulosa Matsush. 1971

Laterispora Uecker, W.A. Ayers & P.B. Adams 1982
Lauriomyces R.F. Castañeda 1990
Lawalreea Dieder. 1990
Leandria Rangel 1915
Lecaniocola Brain 1923
Lecanostictopsis B. Sutton & Crous 1997
Lecythispora Chowdhry 1985
Lecythophora-like, anamorphic *Igneocumulus* A.W. Ramaley 2003
Leeina Petr. 1923
Leightoniomyces D. Hawksw. & B. Sutton 1977
Lembuncula Cif. 1954
Lemkea Morgan-Jones & R.C. Sinclair 1983
Lepisticola W. Gams 2009*
Leprieurina G. Arnaud 1918, also see *Prillieuxina*
Leprieurinella Bat. & H. Maia 1961
Leptochlamys Died. 1921
Leptodermella Höhn. 1915
Leptodiscella Papendorf 1969
Leptomelanconium Petr. 1923
Leptophyllosticta I.E. Brezhnev 1939
Leptostromella (Sacc.) Sacc. 1884
Leptothyrella Sacc. 1885
Leptothyrina Höhn. 1915
Leptothyrium Kunze 1823
Leucodochium Syd. & P. Syd. 1917
Leucopenicillifer G.R.W. Arnold 1971
Leuliisinea Matsush. 1985
Libertiella Speg. & Roum. 1880
Lichenobactridium Diederich & Etayo 1995
Lichenoconium Petr. & Syd. 1927
Lichenodiplis Dyko & D. Hawksw. 1979
Lichenodiplisiella S.Y. Kondr. & Kudratov 2002
Lichenohendersonia Calat. & Etayo 2001
Lichenopuccinia D. Hawksw. & Hafellner 1984
Lichenostella Calat. & Etayo 1999
Lichenosticta Zopf 1898
Linkosia A. Hern. Gut. & B. Sutton 1997
Linochorella Syd. & P. Syd. 1912
*Linodochium*Höhn. 1909
Listeromyces Penz. & Sacc. 1901
Lobatopedis P.M. Kirk 1979
Loliomyces Maire 1937
Lomaantha Subram. 1954
Lomachashaka Subram. 1956
Lunulospora Ingold 1942
Luzfridiella R.F. Castañeda & W.B. Kendr. 1991
Lylea Morgan-Jones 1975
Lysotheca Cif. 1962
Mackenziella Yanna & K.D. Hyde 2009*
Macrodiplodia Sacc. 1884
Macrodiplodiopsis Petr. 1922
Macrotrichum Grev. 1825
Magdalaenaea G. Arnaud 1952
Mahabalella B. Sutton & S.D. Patil 1966
Mammariopsis L.J. Hutchison & J. Reid 1988
Manginella Bat. & H. Maia 1961
Manoharachariella Bagyan., N.K. Rao & Kunwar 2009*
Manoharachariomyces N.K. Rao, D.K. Agarwal & Kunwar 2005
Mapletonia B. Sutton 1991
Margarinomyces Laxa 1930
Martinellisia V.G. Rao & Varghese 1977
Massalongina Bubák 1916
Massariothea Syd. 1939
Mastigomyces Imshen. & Kriss 1933
Mastigosporium Riess 1852
Matsushimaea Subram. 1978
Matsushimiella R.F. Castañeda & Heredia 2001
Matsushimomyces V.G. Rao & Varghese 1979
Mauginiella Cavara 1925
Medusamyces G.L. Barron & Szijarto 1990
Megacapitula J.L. Chen & Tzean 1993
Megalodochium Deighton 1960
Melanocephala S. Hughes 1979
Melanodiscus Höhn. 1918
Melanographium Sacc. 1913
Melanophoma Papendorf & J.W. du Toit 1967
Melanosella Örösi-Pál 1936
Melophia Sacc. 1884
Menoidea L. Mangin & Har. 1907
Mercadomyces J. Mena 1988
Metadiplodia Syd. 1937
Metarhiziopsis D.W. Li, R.S. Cowles & Vossbrinck 2008
Metazythia Petr. 1950
Metazythiopsis M. Morelet 1988
Microblastosporon Cif. 1930
Microclava F. Stevens 1917
Microdiscula Höhn. 1915

Microdothiorella C.A.A. Costa & Sousa da Câmara 1955
Microhendersonula Dias & Sousa da Câmara 1952
Microperella Höhn. 1909
Microtyle Speg. 1919
Microxyphiella Speg. 1918
Microxyphiopsis Bat. 1963
Milospium D. Hawksw. 1975
Mindoa Petr. 1949
Miniancora Marvanová & Bärl. 1989
Minimelanolocus R.F. Castañeda & Heredia 2001
Minimidochium B. Sutton 1970
Minutoexcipula V. Atienza & D. Hawksw. 1994
Minutophoma D. Hawksw. 1981
Mirimyces Nag Raj 1993
Mixtoconidium Etayo 1995
Mohgaonidium Singhai 1974
Monilochaetes Halst. ex Harter 1916
Monochaetiella E. Castell. 1943
Monochaetopsis Pat. 1931
Monodia Breton & Faurel 1970
Monodidymaria U. Braun 1994
Monodisma Alcorn 1975
Monosporiella Speg. 1918
Monosporium Bonord. 1851, nom. illegit.
Monotrichum Gäum. 1922
Moorella P.Rag. Rao & D. Rao 1964
Moralesia Urries 1956
Morosporium Renault & Roche 1898
Morrisographium M. Morelet 1968
Mucobasispora Mustafa & Abdul-Wahid 1990
Mucosetospora M. Morelet 1972
Muiaria Thaxt. 1914
Muiogone Thaxt. 1914
Muirella R. Sprague 1959
Multicladium K.B. Deshp. & K.S. Deshp. 1966
Multipatina Sawada 1928
Mycelephas R.F. Castañeda* 2009
Myceloderma Ducomet 1907
Mycobacillaria Naumov 1915
Mycocentrodochium K. Matsush. & Matsush. 1996
Mycochlamys S. Marchand & Cabral 1976
Mycoenterolobium Goos 1970
Mycofalcella Marvanová, Om-Kalth. & J. Webster 1993
Mycomyces Wyss-Chod. 1928
Mycopara Bat. & J.L. Bezerra 1960
Mycospraguea U. Braun & Rogerson 1993
Mycosticta Höhn. 1918
Mycosylva M.C. Tulloch 1973
Mycotribulus Nag Raj & W.B. Kendr. 1970
Mycousteria M.L. Farr 1986
Myiocoprula Petr. 1955
Myriellina Höhn. 1915
Myriodontium Samson & Polon. 1978
Myrmecomyces Jouvenaz & Kimbr. 1991
Myropyxis Ces. ex Rabenh. 1851
Myrotheciastrum Abbas & B. Sutton 1988
Mystrosporiella Munjal & Kulshr. 1969
Myxoparaphysella Caball. 1941
Myxosporella Sacc. 1881
Myxosporidiella Negru 1960
Myxostomellina Syd. 1931
Myxothyriopsis Bat. & A.F. Vital 1956
Myxothyrium Bubák & Kabát 1915
Naemaspora Pers. 1796
Naemosphaera P. Karst. 1888
Naemosphaerella Höhn. 1923
Nagrajia R.F. Castañeda & W.B. Kendr. 1991
Nagrajomyces Melnik 1984
Nakatopsis Whitton, McKenzie & K.D. Hyde 2001
Nanoschema B. Sutton 1980
Naothyrsium Bat. 1960
Naranus Ts. Watan. 1995
Navaneethospora V.G. Rao 1994
Necraphidium Cif. 1951
Negeriella Henn. 1897
Nematogonum Desm. 1834
Nematographium Goid. 1935
Nemozythiella Höhn. 1925
Neoalpakesa Punith. 1981
Neoarbuscula B. Sutton 1983
Neobarclaya Sacc. 1899
Neodiplodina Petr. 1954
Neofuckelia Zeller & Goodd. 1935
Neohendersonia Petr. 1921
Neoheteroceras Nag Raj 1993
Neojohnstonia B. Sutton 1983
Neoligniella Naumov 1951
Neomarssoniella U. Braun 1991
Neomelanconium Petr. 1940
Neoovularia U. Braun 1992
Neopeltis Syd. 1937
Neopericonia Kamal, A.N. Rai & Morgan-Jones 1983

Neophoma Petr. & Syd. 1927
Neoplaconema B. Sutton 1977
Neoramularia U. Braun 1991
Neospegazzinia Petr. & Syd. 1936
Neosporidesmium Mercado & J. Mena 1988
Neottiospora Desm. 1843
Neta Shearer & J.L. Crane 1971
Nidulispora Nawawi & Kuthub. 1990
Nigromacula Etayo 2002
Nigropuncta D. Hawksw. 1981
Nosophloea Fr. 1849
*Nothospora*Peyronel 1913
*Nummospora*E. Müll. & Shoemaker 1964
Nusia Subram. 1995
Nyctalospora E.F. Morris 1972
Obeliospora Nawawi & Kuthub. 1990
Obstipipilus B. Sutton 1968
Obstipispora R.C. Sinclair & Morgan-Jones 1979
Ochroconis de Hoog & Arx 1974
Octopodotus Kohlm. & Volkm.-Kohlm. 2003
Odontodictyospora Mercado 1984
Oedocephalum Preuss 1851
Oedothea Syd. 1930
Ojibwaya B. Sutton 1973
Olpitrichum G.F. Atk. 1894
Omega B. Sutton & Minter 1988
Ommatosporella Bat., J.L. Bezerra & Poroca 1967
Oncopodiella G. Arnaud ex Rifai 1965
Oncopodium Sacc. 1904
Oncospora Kalchbr. 1880
Oncosporella P. Karst. 1887
Oncostroma Bat. & Marasas 1966
Onychophora W. Gams, P.J. Fisher & J. Webster 1984
Oothyrium Syd. 1939
Ophiosira Petr. 1955
Orbimyces Linder 1944
Ordus K. Ando & Tubaki 1983
Ostracodermidium Mukerji 1973
Ovadendron Sigler & J.W. Carmich. 1976
Paathramaya Subram. 1956
Pachycladina Marvanová 1987
Pactilia Fr. 1837
Palawaniopsis Bat., Cif. & Nascim. 1959
Panchanania Subram. & N.G. Nair 1966
Papilionospora V.G. Rao & B. Sutton 1976
Pappimyces B. Sutton & Hodges 1975
Paraaoria R.K. Verma & Kamal 1987
Paraarthrocladium Matsush. 1993
Paraceratocladium R.F. Castañeda 1987
Parachionomyces Thaung 1979
Paracostantinella Subram. & Sudha 1989
Paracryptophiale Kuthub. & Nawawi 1994
Paracytospora Petr. 1925
Paradactylaria Subram. & Sudha 1989
Paradactylella Matsush. 1993
Paradendryphiopsis M.B. Ellis 1976
Paradictyoarthrinium Matsush. 1996
Paradidymobotryum C.J.K. Wang & B. Sutton 1984
Paradiplodia Speg. ex Trotter 1931
Paradischloridium Bhat & B. Sutton 1985
Paradiscula Petr. 1941
Paraepicoccum Matsush. 1993
Parafulvia Kamal, A.N. Rai & Morgan-Jones 1983
Paraharknessia Matsush. 2003
Parahyalotiopsis Nag Raj 1976
Paramassariothea Subram. & Muthumary 1979
Paramenisporopsis Matsush. 2003
Parapericonia M.B. Ellis 1976
Parapericoniella U. Braun, Heuchert & K. Schub. 2005
Paraphaeoisaria de Hoog & Morgan-Jones 1978
Paraphialocephala Budathoki 1997
Parapithomyces Thaung 1976
Parapleurotheciopsis P.M. Kirk 1982
Parapyricularia M.B. Ellis 1972
Pararobillarda Matsush. 1996
Parasarcopodium Melnik, S.J. Lee & Crous 2004
Parasphaeropsis Petr. 1953
Paraspora Grove 1884
Parastigmatellina Bat. & C.A.A. Costa 1959
Parasympodiella Ponnappa 1975
Paratetraploa M.K.M. Wong & K.D. Hyde 2002
Paratomenticola M.B. Ellis 1976
Paratrichoconis Deighton & Piroz. 1972
Paraulocladium R.F. Castañeda 1986
Parvosympodium A.W. Ramaley 2002
Paspalomyces Linder 1933
Patouillardiella Speg. 1889
Patriciomyces D. Hawksw. 2001
Pellionella (Sacc.) Sacc. 1902

Peltasterella Bat. & H. Maia 1959
Peltasterinostroma Punith. 1975
Peltasteropsis Bat. & H. Maia 1959
Peltistroma Henn. 1904
Peltistromella Höhn. 1907
Peltosoma Syd. 1925
Peltostromellina Bat. & A.F. Vital 1959
Peltostromopsis Bat. & A.F. Vital 1959
Penzigomyces Subram. 1992
Perelegamyces R.F. Castañeda & W.B. Kendr. 1990
Periola Fr. 1822
Perizomella Syd. 1927
Pestalozziella Sacc. & Ellis ex Sacc. 1882
Petrakia Syd. & P. Syd. 1913
Petrakiopsis Subram. & K.R.C. Reddy 1968
Phacostroma Petr. 1955
Phacostromella Petr. 1955
Phaeoblastophora Partr. & Morgan-Jones 2002
Phaeobotrys M. Calduch, Gené & Guarro 2002
Phaeocandelabrum R.F. Castañeda, Heredia, Saikawa 2009*
Phaeocytostroma Petr. 1921
Phaeodactylella Udaiyan 1992
Phaeodactylium Agnihothr. 1968
Phaeodiscula Cub. 1891
Phaeodomus Höhn. 1909
Phaeohiratsukaea Udagawa & Iwatsu 1990
Phaeohymenula Petr. 1954
Phaeoidiomyces Dorn.-Silva & Dianese 2004
Phaeoisaria Höhn. 1909
Phaeolabrella Speg. 1912
Phaeomonilia R.F. Castañeda, Heredia & R.M. Arias 2007
Phaeomonostichella Keissl. ex Petr. 1941
Phaeophloeosporella Crous & B. Sutton 1997
Phaeophomopsis Höhn. 1917
Phaeosphaera Bat. & Cif. 1963
Phaeosporobolus D. Hawksw. & Hafellner 1986
Phaeothyrium Petr. 1947
Phaeotrichoconis Subram. 1956
Phalangispora Nawawi & J. Webster 1982
Phialoarthrobotryum Matsush. 1975
Phialogangliospora Udaiyan & V.S. Hosag. 1992
Phialomyces P.C. Misra & P.H.B. Talbot 1964
Phialophaeoisaria Matsush. 1995
Phialoselanospora Udaiyan 1992
Phialosporostilbe Mercado & J. Mena 1985
Phialostele Deighton 1969
Phialotubus R.Y. Roy & Leelav. 1966
Phloeoconis Fr. 1849
Phloeosporina Höhn. 1924
Phlyctaeniella Petr. 1922
Phomachora Petr. & Syd. 1925
Phomachorella Petr. 1947
Phomyces Clem. 1931
Phragmocephala E.W. Mason & S. Hughes 1951
Phragmoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese 2009*
Phragmodochium Höhn. 1924
Phragmogloeum Petr. 1954
Phragmopeltis Henn. 1904
Phragmospathula Subram. & N.G. Nair 1966
Phragmospathulella J. Mena & Mercado 1986
Phragmotrichum Kunze 1823
Phylloedium Fr. 1825
Phyllohendersonia Tassi 1902
Physalidiella Rulamort 1990
Physalidiopsis R.F. Castañeda & W.B. Kendr. 1990
Pilulina G. Arnaud 1954
Pinatubo J.B. Manandhar & Mew 1996
Piperivora Siboe, P.M. Kirk & P.F. Cannon 1999
Piricauda Bubák 1914
Piricaudilium Hol.-Jech. 1988
Piricaudiopsis J. Mena & Mercado 1987
Pirispora Faurel & Schotter 1966
Pirostomella Sacc. 1914
Pirozynskiella S. Hughes 2007
Pithosira Petr. 1949
Pittostroma Kowalski & T.N. Sieber 1992
Placella Syd. 1938
Placodiplodia Bubák 1916
Placonema (Sacc.) Petr. 1921
Placonemina Petr. 1921
Plagiostigmella Petr. 1949
Plectonaemella Höhn. 1915
Plectopeltis Syd. 1927
Plectophomella Moesz 1922
Plectophomopsis Petr. 1922

Plectosira Petr. 1929
Plectronidiopsis Nag Raj 1979
Plectronidium Nag Raj 1977
Plectrothrix Shear 1902
Pleiochaeta (Sacc.) S. Hughes 1951
Plenocatenulis Bat. & Cif. 1959
Plenophysa Syd. & P. Syd. 1920
Plenotrichopsis Bat. 1961
Plenotrichum Syd. 1927
Plenozythia Syd. & P. Syd. 1916
Pleocouturea G. Arnaud 1911
Plesiospora Drechsler 1971
Pleurodesmospora Samson, W. Gams & H.C. Evans 1979
Pleurodiscula Höhn. 1926
Pleurodiscus Petr. 1931
Pleurodomus Petr. 1934
Pleuropedium Marvanová & S.H. Iqbal 1973
Pleurophragmium Costantin 1888
Pleuroplaconema Petr. 1923
Pleuroplacosphaeria Syd. 1928
Pleurotheciopsis B. Sutton 1973
Pleurothyriella Petr. & Syd. 1925
Pleurothyrium Bubák 1916
Pleurothyrium Bubák 1916
Pocillopycnis Dyko & B. Sutton 1979
Podosporiella Ellis & Everh. 1894
Podosporium Schwein. 1832
Poikilosperma Bat. & J.L. Bezerra 1961
Polybulbophiale Goh & K.D. Hyde 1998
Polycladium Ingold 1959
Polydesmus Mont. 1845
Polyetron Bat. & Peres 1963
Polylobatispora Matsush. 1996
Polyscytalina G. Arnaud 1954
Polyscytalum Riess 1853
Polystomellomyces Bat. 1959
Polystratorictus Matsush. 1993
Polysynnema Constant. & Seifert 1988
Polythrinciella Bat. & H. Maia 1960
Polythrinciopsis J. Walker 1966
Polytretophora Mercado 1983
Porobeltraniella Gusmão 2004
Porocladium Descals 1976
Poroisariopsis M. Morelet 1971
Poropeltis Henn. 1904
Porophilomyces U. Braun 2000
Porosubramaniania Hol.-Jech. 1985
Porrectotheca Matsush. 1996
Powellia Bat. & Peres 1964
Prathigada Subram. 1956
Prismaria Preuss 1851
Proboscispora Punith. 1984
Prophytroma Sorokīn 1877
Prosthemiella Sacc. 1881
Protostegia Cooke 1880
Protostegiomyces Bat. & A.F. Vital 1955
Protostroma Bat. 1957
Psammina Sacc. & M. Rousseau ex E. Bommer & M. Rousseau 1891
Pseudoacrodictys W.A. Baker & Morgan-Jones 2003
Pseudoanguillospora S.H. Iqbal 1974
Pseudoaristastoma Suj. Singh 1979
Pseudoasperisporium U. Braun 2000
Pseudobasidiospora Dyko & B. Sutton 1978
Pseudobeltrania Henn. 1902
Pseudocanalisporium R.F. Castañeda & W.B. Kendr. 1991
Pseudocenangium P. Karst. 1886
Pseudochuppia Kamal, A.N. Rai & Morgan-Jones 1984
Pseudoclathrosphaerina Voglmayr 1997
Pseudoconium Petr. 1969
Pseudocytoplacosphaeria Punith. & Spooner 2002
Pseudocytospora Petr. 1923
Pseudodichomera Höhn. 1918
Pseudodidymaria U. Braun 1993
Pseudodiplodia (P. Karst.) Sacc. 1884
Pseudodiscula Laubert 1911
Pseudoepicoccum M.B. Ellis 1971
Pseudofuscophialis Sivan. & H.S. Chang 1995
Pseudogaster Höhn. 1907
Pseudogliophragma Phadke & V.G. Rao 1980
Pseudographiella E.F. Morris 1966
Pseudohansfordia G.R.W. Arnold 1970
Pseudohelicomyces Garnica & E. Valenz. 2000
Pseudohendersonia Crous & M.E. Palm 1999
Pseudolachnea Ranoj. 1910
Pseudoneottiospora Faurel & Schotter 1965
Pseudopapulaspora N.D. Sharma 1977
Pseudopatellina Höhn. 1908
Pseudopeltistroma Katum. 1975
Pseudopetrakia M.B. Ellis 1971
Pseudophloeosporella U. Braun 1993

Pseudophragmotrichum W.P. Wu, B. Sutton & Gange 1998
Pseudopolystigmina Murashk. 1928
Pseudoramularia Matsush. 1983
Pseudorhizopogon Kobayasi 1983
Pseudoschizothyra Punith. 1980
Pseudoseptoria Speg. 1910
Pseudostegia Bubák 1906
Pseudostilbella Munt.-Cvetk. & Gómez-Bolea 1995
Pseudostracoderma A.E. Martinez & Godeas 1997
Pseudothyrium Höhn. 1927
Pseudotorula Subram. 1958
Pseudotracylla B. Sutton & Hodges 1976
Pseudotrichoconis W.A. Baker & Morgan-Jones 2001
Pseudozythia Höhn. 1902
Pterulopsis Wakef. & Hansf. 1943
Pterygosporopsis P.M. Kirk 1983
Pucciniospora Speg. 1886
Pulchromyces Hennebert 1973
Pullospora Faurel & Schotter 1965
Pulvinella A.W. Ramaley 2001
Pulvinotrichum Gamundí, Aramb. & Giaiotti 1981
Punctillina Toro 1934
Pycnidioarxiella Punith. & N.D. Sharma 1980
Pycnidiopeltis Bat. & C.A.A. Costa 1959
Pycnis Bref. 1881
Pycnodactylus Bat., A.A. Silva & Cavalc. 1967
Pycnodallia Kohlm. & Volkm.-Kohlm. 2001
Pycnoharknessia Matsush. 1996
Pycnomma Syd. 1924
Pycnomoreletia Rulamort 1990
Pycnopleiospora C.Z. Wei, Y. Harada & Katum. 1997
Pycnoseynesia Kuntze 1898
Pycnothera N.D. Sharma & G.P. Agarwal 1974
Pycnothyriella Bat. 1952
Pycnothyrium Died. 1913
Pyramidospora Sv. Nilsson 1962
Pyrenyllium Clem. 1909
Pyrgostroma Petr. 1951
Pyriculariopsis M.B. Ellis 1971
Pyripnomyces Cavalc. 1972
Quadracaea Lunghini, Pinzari & Zucconi 1996
Quadricladium Nawawi & Kuthub. 1989
Quasidiscus B. Sutton 1991
Queenslandia Bat. & H. Maia 1959
Quezelia Faurel & Schotter 1965
Radiatispora Matsush. 1995
Radiciseta Sawada & Katsuki 1959
Radulidium Arzanlou, W. Gams & Crous 2007
Raizadenia S.L. Srivast. 1981
Ramakrishnanella Kamat & Ullasa ex Ullasa 1970
Ramaraomyces N.K. Rao, Manohar. & Goos 1989
Ramicephala Voglmayr & G. Delgado 2003
Ramoacrodictys G.Z. Zhao 2009*
Ramoconidiifera B. Sutton, Carmarán & A.I. Romero 1996
Ramulaspera Lindr. 1902
Ranojevicia Bubák 1910
Redbia Deighton & Piroz. 1972
Refractohilum D. Hawksw. 1977
Reichlingia Diederich & Scheid. 1996
Remersonia Samson & Seifert 1997
Repetoblastiella R.F. Castañeda, Minter & M. Stadler 2009*
Retroconis de Hoog & Bat. Vegte 1989
Rhabdoclema Syd. 1939
Rhabdomyces Balbiani 1889
Rhabdostromella Höhn. 1915
Rhexoacrodictys W.A. Baker & Morgan-Jones 2002
Rhexoampullifera P.M. Kirk 1982
Rhexodenticula W.A. Baker & Morgan-Jones 2001
Rhexoprolifer Matsush. 1996
Rhinocladium Sacc. & Marchal 1885
Rhinotrichella G. Arnaud ex de Hoog 1977
Rhipidocephalum Trail 1888
Rhizohypha Chodat & Sigr. 1911
Rhizosphaerina B. Sutton 1986
Rhodesiopsis B. Sutton & R. Campb. 1979
Rhodothallus Bat. & Cif. 1959
Rhombostilbella Zimm. 1902
Rhynchodiplodia Briosi & Farneti 1906
Rhynchomyces Willk. 1866
Rhynchoseptoria Unamuno 1940
Rhynchosporina Arx 1957
Riclaretia Peyronel 1915
Rileya A. Funk 1979
Robakia Petr. 1952

Robillarda Sacc. 1882
Rogergoosiella A. Hern. Gut. & J. Mena 1996
Roigiella R.F. Castañeda 1984
Roscoepoundia Kuntze 1898
Rosulomyces S. Marchand & Cabral 1976
Rota Bat., Cif. & Nascim. 1959
Rotaea Ces. ex Schltdl. 1851
Rubikia H.C. Evans & Minter 1985
Ruggieria Cif. & Montemart. 1958
Rutola J.L. Crane & Schokn. 1978
Sadasivania Subram. 1957
Sagrahamala Subram. 1972
Saliastrum myrtilli (Allesch.) Kujala 1946
Sanjuanomyces R.F. Castañeda & W.B. Kendr. 1991
Santapauinda Subram. 1995
Saprophragma K.B. Deshp. & K.S. Deshp. 1966
Saprotaphrina Verona & Rambelli 1962
Sarbhoyomyces Saikia 1981
Sarcinodochium Höhn. 1905
Sarcinosporon D.S. King & S.C. Jong 1975
Sarcopodium Ehrenb. 1818
Satchmopsis B. Sutton & Hodges 1975
Scaphidium Clem. 1901
Scenomyces F. Stevens 1927
Sceptrifera Deighton 1965
Schizoderma Kunze 1825
Schizothyra Bat. & C.A.A. Costa 1957
Schizothyrella Thüm. 1880
Schizothyropsis Bat. & A.F. Vital 1960
Schizotrichum McAlpine 1903
Schroeteria G. Winter 1881
Schwarzmannia Pisareva 1968
Scirrhophoma Petr. 1941
Sclerococcum Fr. 1825
Scleroconium Syd. 1935
Sclerodiscus Pat. 1890
Sclerodothiorella Died. 1912
Sclerographiopsis Deighton 1973
Sclerographium Berk. 1854
Scleromeris Syd. 1926
Scleropycnis Syd. & P. Syd. 1911
Sclerotiella A.K. Sarbhoy & A. Sarbhoy 1975
Sclerozythia Petch 1937
Scolecobasidiella M.B. Ellis 1971
Scolecobasidium E.V. Abbott 1927
Scolecodochium K. Matsush. & Matsush. 1996
Scolecotheca Søchting & B. Sutton 1997
Scolecozythia Curzi 1927
Scoliotidium Bat. & Cavalc. 1963
Scopaphoma Dearn. & House 1925
Scopulariella Gjaerum 1971
Scorpiosporium S.H. Iqbal 1974
Scothelius Bat., J.L. Bezerra & Cavalc. 1965
Scutisporus K. Ando & Tubaki 1985
Scutopeltis Bat. & H. Maia 1957
Scutopycnis Bat. 1957
Seifertia Partr. & Morgan-Jones 2002
Seimatosporiopsis B. Sutton, Ghaffer & Abbas 1972
Selenodriella R.F. Castañeda & W.B. Kendr. 1990
Selenosira Petr. 1957
Selenosporopsis R.F. Castañeda & W.B. Kendr. 1991
Septocyta Petr. 1927
Septocytella Syd. 1929
Septodochium Matsush. 1971
Septogloeum Sacc. 1880
Septomyxella (Höhn.) Höhn. 1923
Septopatella Petr. 1925
Septosporiopsis W.A. Baker & Morgan-Jones 2009*
Septosporium Corda 1831
Septothyrella Höhn. 1911
Septotrullula Höhn. 1902
Sessiliospora D. Hawksw. 1979
Setolibertella Punith. & Spooner 1999
Setophiale Matsush. 1995
Setosporella Mustafa & Abdul-Wahid 1989
Setosynnema D.E. Shaw & B. Sutton 1985
Seychellomyces Matsush. 1981
Seynesiopsis Henn. 1904
Shawiella Hansf. 1957
Shеariella Petr. 1952
Shrungabeeja V.G. Rao & K.A. Reddy 1981
Siamia V. Robert, Decock & R.F. Castañeda 2000
Sigmatomyces Sacc. & P. Syd. 1913
Sirexcipula Bubák 1907
Sirocyphis Clem. 1909
Sirodochiella Höhn. 1925
Sirogloea Petr. 1923
Siroligniella Naumov 1926
Sirophoma Höhn. 1917
Siroplacodium Petr. 1940

Siropleura Petr. 1934
Siroscyphellina Petr. 1923
Sirosperma Syd. & P. Syd. 1916
Sirosphaera Syd. & P. Syd. 1913
Sirosporonaemella Naumov 1951
Sirothecium P. Karst. 1887
Sirothyriella Höhn. 1910
Sirothyrium Syd. & P. Syd. 1916
Sirozythia Höhn. 1904
Sirozythiella Höhn. 1909
Sitochora H.B.P. Upadhyay 1964
Slimacomyces Minter 1986
Solheimia E.F. Morris 1967
Solicorynespora R.F. Castañeda & W.B. Kendr. 1990
Soloacrospora W.B. Kendr. & R.F. Castañeda 1991
Solosympodiella Matsush. 1971
Soloterminospora Matsush. 1996
Spegazzinia Sacc. 1879
Speiropsis Tubaki 1958
Spermatoloncha Speg. 1908
Spermochaetella Cif. 1954
Spermospora R. Sprague 1948
Spermosporella Deighton 1969
Spermosporella Deighton 1969
Sphaeridium Fresen. 1852
Sphaeriostromella Bubák 1916
Sphaeriothyrium Bubák 1916
Sphaerocolla P. Karst. 1892
Sphaerocybe Magrou & Marneffe 1946
Sphaeromma H.B.P. Upadhyay 1964
Sphaeronema Fr. 1815
Sphaerophoma Petr. 1924
Sphaerosporium Schwein. 1832
Sphaerulomyces Marvanová 1977
Sphondylocephalum Stalpers 1974
Spicularia Pers. 1822
Spinulospora Deighton 1973
Spiralum J.L. Mulder 1975
Spiropes Cif. 1955
Spondylocladiella Linder 1934
Spondylocladiopsis M.B. Ellis 1963
Sporendonema Desm. 1827
Sporocystis Morgan 1902
Sporoglena Sacc. 1894
Sporophiala P.Rag. Rao 1970
Sporophora Luteraan 1952
Stachybotryella Ellis & Barthol. 1902
Stachybotryna Tubaki & T. Yokoy. 1971
Stachycoremium Seifert 1986
Stachylidium Link 1809
Stagonopatella Petr. 1927
Stagonopsis Sacc. 1884
Stagonosporina Tassi 1902
Stagonostromella Petr. & Syd. 1927
Staheliella Emden 1974
Stalagmochaetia Cif. & Bat. 1963
Staphylotrichum J. Mey. & Nicot 1957
Stauriella Sivichai & E.B.G. Jones 2004
Stauronema (Sacc.) Syd., P. Syd. & E.J. Butler 1916
Stauronematopsis Abbas, B. Sutton & Ghaffar 2002
Staurophoma Höhn. 1907
Stegolerium Strobel, W.M. Hess & E.J. Ford 2001
Stegonsporiopsis Van Warmelo & B. Sutton 1981
Stellomyces Morgan-Jones, R.C. Sinclair & Eicker 1987
Stellopeltis Bat. & A.F. Vital 1959
Stellospora Alcorn & B. Sutton 1984
Stellothyriella Bat. & Cif. 1959
Stenocephalopsis Chamuris & C.J.K. Wang 1998
Stenocephalum Chamuris & C.J.K. Wang 1990
Stenocladiella Marvanová & Descals 1987
Stenospora Deighton 1969
Stephanosporium Dal Vesco 1961
Stephembruneria R.F. Castañeda 1988
Sterigmatobotrys Oudem. 1886
Stevensomyces E.F. Morris & Finley 1965
Stevensonula Petr. 1952
Stichospora Petr. 1927
Stictopatella Höhn. 1918
Stictosepta Petr. 1964
Stigmatellina Bat. & H. Maia 1960
Stigmella Lév. 1842
Stigmopeltis Syd. 1927
Stilbellula Boedijn 1951
Stilbophoma Petr. 1942
Stilbospora Pers. 1794, also see *Prosthecium*
Strasseria Bres. & Sacc. 1902
Strasseriopsis B. Sutton & Tak. Kobay. 1970
Stratiphoromyces Goh & K.D. Hyde 1998
Striosphaeropsis Verkley & Aa 1997
Stromatopogon Zahlbr. 1897
Stromatopycnis A.F. Vital 1956
Stromatostysanus Höhn. 1919
Strongylothallus Bat. & Cif. 1959

Strumellopsis Höhn. 1909
Stygiomyces Coppins & S.Y. Kondr. 1995
Stylaspergillus B. Sutton, Alcorn & P.J. Fisher 1982
Subicularium M.L. Farr & Goos 1989
Subramania D. Rao & P.Rag. Rao 1964
Subramanianospora Narayanan, J.K. Sharma & Minter 2003
Subramaniomyces Varghese & V.G. Rao 1980
Subulispora Tubaki 1971
Surculiseries Okane, Nakagiri & Tad. Ito 2001
Sutravarana Subram. & Chandrash. 1977
Suttoniella S. Ahmad 1961
Suttonina H.C. Evans 1984
Syamithabeeja Subram. & Natarajan 1976
Sylviacollaea Cif. 1963
Symbiotaphrina Kühlw. & Jurzitza ex W. Gams & Arx 1980
Symphyosira Preuss 1853*
Symphysos Bat. & Cavalc. 1967
Sympodiella W.B. Kendr. 1958
Sympodiocladium Descals 1982
Sympodioclathra Voglmayr 1997
Sympodioplanus R.C. Sinclair & Boshoff 1997
Synchronoblastia Uecker & F.L. Caruso 1988
Syncladium Rabenh. 1859
Synnemacrodictys W.A. Baker & Morgan-Jones 2009*
Synnemaseimatoides K. Matsush. & Matsush. 1996
Synnematomyces Kobayasi 1981
Synnemellisia N.K. Rao, Manohar. & Goos 1989
Synnmukerjiomyces Aneja & R. Kumar 1999
Synostomina Petr. 1949
Systremmopsis Petr. 1923
Taeniolina M.B. Ellis 1976
Talekpea Lunghini & Rambelli 1979
Tandonia M.D. Mehrotra 1991
Tarsodisporus Bat. & A.A. Silva 1965
Tassia Syd. & P. Syd. 1919
Tawdiella K.B. Deshp. & K.S. Deshp. 1966
Taxomyces Strobel, A. Stierle, D. Stierle & W.M. Hess 1993
Tectacervulus A.W. Ramaley 1992
Telligia Hendr. 1948
Temerariomyces B. Sutton 1993
Teratosperma Syd. & P. Syd. 1909
Tetrabrachium Nawawi & Kuthub. 1987
Tetrabrunneospora Dyko 1978
Tetrachaetum Ingold 1942
Tetracoccosporium Szabó 1905
Tetrameronycha Speg. ex W. Rossi & M. Blackw. 1990
Tetranacriella Kohlm. & Volkm.-Kohlm. 2001
Tetranacrium H.J. Huds. & B. Sutton 1964
Tetraposporium S. Hughes 1951
Textotheca Matsush. 1996
Thallospora L.S. Olive 1948
Thaptospora B. Sutton & Pascoe 1987
Tharoopama Subram. 1956
Thirumalacharia Rathaiah 1981
Tholomyces Matsush. 2003
Thoracella Oudem. 1900
Thrinacospora Petr. 1948
Thyriostromella Bat. & C.A.A. Costa 1959
Thyrostromella Höhn. 1919
Thyrsidiella Höhn. ex Höhn. 1909
Thyrsidina Höhn. 1905
Tiarosporellivora Punith. 1981
Ticogloea G. Weber, Spaaij & W. Gams 1994
Tilakiopsis V.G. Rao 1994
Titaeopsis B. Sutton & Deighton 1984
Titaeospora Bubák 1916, also see *Stamnaria*
Tomenticola Deighton 1969
Tompetchia Subram. 1985
Torulopsiella Bender 1932
Toxosporiella B. Sutton 1986
Toxosporiopsis B. Sutton & Sellar 1966
Toxosporium Vuill. 1896
Tracylla (Sacc.) Tassi 1904
Trematophoma Petr. 1924
Tremellidium Petr. 1927
Tretocephala Subram. 1995
Tretophragmia Subram. & Natarajan 1974
Tretospeira Piroz. 1972
Tretovularia Deighton 1984
Triacutus G.L. Barron & Tzean 1981
Triadelphia Shearer & J.L. Crane 1971
Tribolospora D.A. Reid 1966
Tricellula Beverw. 1954
Trichaegum Corda 1837
Trichobolbus Bat. 1964
Trichobotrys Penz. & Sacc. 1901
Trichoconis Clem. 1909

Trichodiscula Vouaux 1910
Trichodochium Syd. 1927
Trichomatoclava G.F. Sepúlveda, Pereira-Carv. & Dianese 2009*
Trichomatosphaera Pereira-Carv., G.F. Sepúlveda & Dianese 2009*
Trichopeltulum Speg. 1889
Trichoseptoria Cavara 1892
Trichosporodochium Dorn.-Silva & Dianese 2004
Tricladiella K. Ando & Tubaki 1984
Tricladiopsis Descals 1982
Tricladiospora Nawawi & Kuthub. 1988
Tridentaria Preuss 1852
Trifurcospora K. Ando & Tubaki 1988
Triglyphium Fresen. 1852
Trigonosporium Tassi 1900
Tripoconidium Subram. 1978
Triposporina Höhn. 1912
Triramulispora Matsush. 1975
Triscelophorus Ingold 1944
Triscelosporium Nawawi & Kuthub. 1987
Trisulcosporium H.J. Huds. & B. Sutton 1964
Tritirachium Limber 1940
Troposporium Harkn. 1884
Troposporopsis Whitton, McKenzie & K.D. Hyde 1999
Trullula Ces. 1852
Tryssglobulus B. Sutton & Pascoe 1987
Tuberculariopsis Höhn. 1909
Tuberculispora Deighton & Piroz. 1972
Tulipispora Révay & Gönczöl 2009*
Tumularia Descals & Marvanová 1987
Tunicago B. Sutton & Pollack 1977
Turturconchata J.L. Chen, T.L. Huang & Tzean 1999
Tylomyces Cortini 1921
Tympanosporium W. Gams 1974
Uberispora Piroz. & Hodges 1973
Ubrizsya Negru 1965
Ulocoryphus Michaelides, L. Hunter & W.B. Kendr. 1982
Umbellidion B. Sutton & Hodges 1975
Uncispora R.C. Sinclair & Morgan-Jones 1979
Urohendersonia Speg. 1902
Urohendersoniella Petr. 1955
Uvarispora Goos & Piroz. 1975
Vagnia D. Hawksw. & Miądl. 1997
Vamsapriya Gawas & Bhat 2006
Vanakripa Bhat, W.B. Kendr. & Nag Raj 1993
Vanbeverwijkia Agnihothr. 1961
Vanderystiella Henn. 1908
Vanibandha Manohar., N.K. Rao, Kunwar & D.K. Agarwal 2006
Vanterpoolia A. Funk 1982
Vargamyces Tóth 1980
Variocladium Descals & Marvanová 1999
Vasculomyces S.F. Ashby 1913
Vasudevella Chona, Munjal & Bajaj 1957
Velutipila D. Hawksw. 1987
Ventrographium H.P. Upadhyay, Cavalc. & A.A. Silva 1986
Venustisporium R.F. Castañeda & Iturr. 1999
Venustocephala Matsush. 1995
Venustosynnema R.F. Castañeda & W.B. Kendr. 1990
Veracruzomyces Mercado, Guarro, Heredia & J. Mena 2002
Veramycella G. Delgado 2009*
Veramyces Matsush. 1993
Verdipulvinus A.W. Ramaley 1999
Vermispora Deighton & Piroz. 1972
Vermisporium H.J. Swart & M.A. Will. 1983
Veronaea Cif. & Montemart. 1957
Veronaella Subram. & K.R.C. Reddy 1975
Veronidia Negru 1964
Verrucariella S. Ahmad 1967
Verrucophragmia Crous, M.J. Wingf. & W.B. Kendr. 1994
Verticicladus Matsush. 1993
Verticimonosporium Matsush. 1971
Vesiculohyphomyces Armando, Pereira-Carv. & Dianese 2009*
Vestigium Piroz. & Shoemaker 1972
Virgariella S. Hughes 1953
Virgatospora Finley 1967
Viscomacula R. Sprague 1951
Volucrispora Haskins 1958
Volutellis Clem. & Shear 1931
Volutellopsis Speg. 1910
Vouauxiella Petr. & Syd. 1927
Waihonghopes Yanna & K.D. Hyde 2002
Wardinella Bat. & Peres 1960
Waydora B. Sutton 1976
Websteromyces W.A. Baker & Partr. 2000
Weissia Bat. & M.P. Herrera 1964
Weufia Bhat & B. Sutton 1985
Wiesneriomyces Koord. 1907

Wojnowicia Sacc. 1899
Xanthoriicola D. Hawksw. 1973
Xenidiocercus Nag Raj 1993
Xenochalara M.J. Wingf. & Crous 2000
Xenodomus Petr. 1922
Xenoheteroconium Bhat, W.B. Kendr. & Nag Raj 1993
Xenokylindria DiCosmo, S.M. Berch & W.B. Kendr. 1983
Xenopeltis Syd. & P. Syd. 1919
Xenoplaca Petr. 1949
Xenostroma Höhn. 1915
Xepicula Nag Raj 1993
Xepiculopsis Nag Raj 1993
Xeroconium D. Hawksw. 1981
Xiambola Minter & Hol.-Jech. 1981
Xiphomyces Syd. & P. Syd. 1916
Xylochia B. Sutton 1983
Xyloglyphis Clem. 1909
Xylohypha (Fr.) E.W. Mason 1960
Xylohyphopsis W.A. Baker & Partr. 2000
Yalomyces Nag Raj 1993
Ybotromyces Rulamort 1986
Yinmingella Goh, K.M. Tsui & K.D. Hyde 1999
Ypsilina J. Webster, Descals & Marvanová 1999
Yuccamyces Gour, Dyko & B. Sutton 1979
Yunnania H.Z. Kong 1998
Zakatoshia B. Sutton 1973
Zanclospora S. Hughes & W.B. Kendr. 1965
Zebrospora McKenzie 1991
Zelandiocoela Nag Raj 1993
Zelopelta B. Sutton & R.D. Gaur 1984
Zelosatchmopsis Nag Raj 1991
Zelotriadelphia R.F. Castañeda, Saikawa, M. Stadler & Iturr. 2005
Zetesimomyces Nag Raj 1988
Zevadia J.C. David & D. Hawksw. 1995
Zilingia Petr. 1934
Zinzipegasa Nag Raj 1993
Zopheromyces B. Sutton & Hodges 1977
Zunura Nag Raj 1993
Zygosporium Mont. 1842
Zythia Fr. 1849
Zyxiphora B. Sutton 1981

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

Agaricaceae Chevall.
Attamyces Kreisel 1972
Coccobotrys Boud. & Pat. 1900, anamorphic *Lepiota* (Pers.) Gray 1821

Fistulinaceae Lotsy
Confistulina Stalpers 1983, anamorphic *Fistulina* Bull. 1791

Lyophyllaceae Jülich
Termitosphaera Cif. 1935, anamorphic *Termitomyces* R. Heim 1942
Ugola Adans. 1763, anamorphic *Asterophora* Ditmar 1809

Mycenaceae Overeem
Decapitatus Redhead & Seifert 2000, anamorphic *Mycena* (Pers.) Roussel 1806

Niaceae Jülich
Peyronelina P.J. Fisher, J. Webster & D.F. Kane 1976*

Psathyrellaceae Vilgalys, Moncalvo & Redhead
Hormographiella Guarro & Gené 1992, *Coprinellus* P. Karst. 1879
Rhacophyllus Berk. & Broome 1871, anamorphic *Coprinopsis* P. Karst. 1881 (or *Coprinus*?)

Pleurotaceae Kühner
Antromycopsis Pat. & Trab. 1897, anamorphic *Pleurotus* (Fr.) P. Kumm.
Nematoctonus Drechsler 1941, anamorphic *Hohenbuehelia* Schulzer 1866

Tricholomataceae R. Heim ex Pouzar
Nothoclavulina Singer 1970, anamorphic *Arthrosporella* Singer 1970
Tilachlidiopsis Keissl. 1924, anamorphic *Dendrocollybia* R.H. Petersen & Redhead 2001

Typhulaceae Jülich
Sclerotium Tode 1790, anamorphic *Typhula* (Pers.) Fr. 1818
Agaricales, genera *incertae sedis*
Disporotrichum Stalpers 1984
Fibulochlamys A.I. Romero & Cabral 1989*

Atheliales Jülich
Atheliaceae Jülich
Fibulomyces Jülich 1972, anamorphic *Taeniospora* Marvanová 1977
Fibularhizoctonia G.C. Adams & Kropp 1996, anamorphic *Athelia* Pers. 1822
Sclerotium Tode 1790, anamorphic *Athelia* Pers. 1822*
Taeniospora Marvanová 1977, anamorphic *Fibulomyces* Jülich 1972

Auriculariales, genera *incertae sedis*
Oliveorhiza P. Roberts 1998, anamorphic *Oliveonia* Donk 1958

Cantharellales Gäum
Botryobasidiaceae Jülich
Allescheriella Henn. 1897, anamorphic *Botryobasidium* Donk 1931
Alysidium Kunze 1817, anamorphic *Botryobasidium* Donk 1931
Haplotrichum Link 1824, anamorphic *Botryobasidium* Donk 1931

Ceratobasidiaceae G.W. Martin
Acanthellorhiza P. Roberts, anamorphic *Heteroacanthella* 1990
Ceratorhiza R.T. Moore 1987, anamorphic *Ceratobasidium* D.P. Rogers 1935*
Rhizoctonia DC. 1805 (and as *Thanatophytum* Nees 1816), anamorphic *Helicobasidium* Pat. 1885 and *Thanatephorus* Donk 1956

Hydnaceae Chevall.
Burgoa Goid. 1938, anamorphic *Sistotrema* Fr. 1821
Ingoldiella D.E. Shaw 1972, anamorphic *Sistotrema* Fr. 1821
Osteomorpha G. Arnaud ex Watling & W.B. Kendr. 1979, anamorphic *Sistotrema* Fr. 1821

Tulasnellaceae Juel
Epulorhiza R.T. Moore 1987, anamorphic *Tulasnella* J. Schröt. 1888

Cantharellales, genera *incertae sedis*
Minimedusa Weresub & P.M. LeClair 1971*

Corticiales K.H. Larss.
Corticiaceae Herter
Chrysorhiza T.F. Andersen & Stalpers 1996, anamorphic *Waitea* Warcup & P.H.B. Talbot 1962
Erythricium J. Erikss. & Hjortstam 1970
Marchandiomyces Dieder. & D. Hawksw. 1990, anamorphic *Marchandiobasidium* Diederich & Schultheis 2003
Michenera Berk. & M.A. Curtis 1868, anamorphic *Licrostroma* P.A. Lemke 1964
Tretopileus B.O. Dodge 1946

Hymenochaetales Oberw.
Schizoporaceae Jülich
Echinodia Pat. 1918, anamorphic *Echinoporia* Ryvarden 1980

Hymenochaetales, genera *incertae sedis*
Caeruleomyces Stalpers 2000

Polyporales Gäum.
Fomitopsidaceae Jülich
Ptychogaster Corda 1838, anamorphic *Oligoporus* Bref. 1888
Sporotrichum Link 1809, anamorphic *Laetiporus* Murrill 1904 and *Pycnoporellus* Murrill 1905

Ganodermataceae Donk
Thermophymatospora Udagawa, Awao & Abdullah 1986, anamorphic *Ganoderma* P. Karst. 1881

Meruliaceae P. Karst.
Aegerita Pers. 1801, anamorphic *Bulbillomyces* Jülich 1974
Bornetina L. Mangin & Viala 1903, anamorphic *Diacanthodes* Singer 1945
Sporotrichopsis Staplers (2000), anamorphic *Abortiporus* Murrill

Phanerochaetaceae Jülich
Erythricium J. Erikss. & Hjortstam 1970, anamorph of *Phanerochaete* P. Karst. 1889
Sporotrichum Link 1809, anamorphic *Phanerochaete* P. Karst. 1889

Polyporaceae Fr. ex Corda
Digitellus Paulet 1791, anamorphic *Lentinus* Fr. 1825

Mycelithe Gasp. 1841, anamorphic *Polyporus* P. Micheli ex Adans. 1763
Pachyma Fr. 1822, anamorphic *Lentinus* Fr. 1825, *Macrohyporia* I. Johans. & Ryvarden 1979, *Polyporus* P. Micheli ex Adans. 1763 and *Wolfiporia* Ryvarden & Gilb. 1984

Russulales Kreisel ex P.M. Kirk, P.F. Cannon & J.C. David
Bondarzewiaceae Kotl. & Pouzar
Spiniger Stalpers 1974, anamorphic *Heterobasidion* Bref. 1888

Echinodontiaceae Donk
Spiniger Stalpers 1974, anamorphic *Laurilia* Pouzar 1959

Lachnocladiaceae D.A. Reid
Spiniger Stalpers 1974, anamorphic *Dichostereum* Pilát 1926,

Stereaceae Pilát
Aleurocystis Lloyd ex G. Cunn. 1956,
Acaromyces Boekhout, Scorzetti, Gerson & Sztejnb. 2003
Aleurocystis Lloyd ex G. Cunn. 1956, anamorphic *Licrostroma* P.A. Lemke 1964
Matula Massee 1888, anamorphic *Aleurocystis* Lloyd ex G. Cunn.1956

Sebacinales M. Weiss, Selosse, Rexer, A. Urb. & Oberw.
Sebacinaceae K. Wells & Oberw.
Craterocolla Bref. 1888
Ditangium P. Karst. 1867, anamorphic *Craterocolla* Bref. 1888
Chaetospermum Sacc. 1892, ?anamorphic *Efibulobasidium* K. Wells 1975*
Opadorhiza T.F. Andersen & R.T. Moore 1996, anamorphic *Sebacina* Tul. & C. Tul. 1871

Thelephorales Corner ex Oberw.
Thelephoraceae Chevall.
Parahaplotrichum W.A. Baker & Partr. 2001, anamorphic *Botryobasidium* Rick 1959

Trechisporales K.H. Larss.
Hydnodontaceae Jülich
Aegeritina Jülich 1984, anamorphic *Subulicystidium* Parmasto 1968

Agaricomycetes, genera *incertae sedis*
Akenomyces G. Arnaud ex D. Hornby 1984
Arthrodochium R.F. Castañeda & W.B. Kendr. 1990
Arualis Katz 1980
Cenangiomyces Dyko & B. Sutton 1979
Corticomyces A.I. Romero & S.E. López 1989
Cruciger R. Kirschner & Oberw. 1999
Dendrosporomyces Nawawi, J. Webster & R.A. Davey 1977
Ellula Nag Raj 1980
Fibulocoela Nag Raj 1978
Fibulotaeniella Marvanová & Bärl. 1988
Geotrichopsis Tzean & Estey 1991
Gloeosynnema Seifert & G. Okada 1988
Glomerulomyces A.I. Romero & S.E. López 1989
Glutinoagger Sivan. & Watling 1980
Myriococcum Fr. 1823
Nyctalina G. Arnaud 1952
Pagidospora Drechsler 1960
Pycnovellomyces R.F. Castañeda 1987
Riessia Fresen. 1852
Riessiella Jülich 1985
Titaeella G. Arnaud ex K. Ando & Tubaki 1985
Tricladiomyces Nawawi 1985

Class *Dacrymycetes* Doweld
Dacrymycetales Henn.
Dacrymycetaceae J. Schröt.
Cerinosterus R.T. Moore 1987
Dacryoscyphus R. Kirschner & Zhu L. Yang 2005

Class *Tremellomycetes* Hibbett, Matheny, & Manfr. Binder
Cystofilobasidiales Fell, Roeijmans & Boekhout
Cystofilobasidiaceae K. Wells & Bandoni
Guehomyces Fell & Scorzetti 2004
Itersonilia Derx 1948
Mrakiella Margesin & Fell 2008
Phaffia M.W. Mill., Yoney. & Soneda 1976, anamorphic *Xanthophyllomyces* Golubev 1995

Rhodozyma Phaff, M.W. Mill., Yoney. & Soneda 1972, anamorphic *Xanthophyllomyces* Golubev 1995
Tausonia Babeva 1998
Udeniomyces Nakase & Takem. 1992

Filobasidiales Jülich
Filobasidiaceae L.S. Olive
Cryptococcus Vuill. 1901, anamorphic *Filobasidium* L.S. Olive 1968

Tremellales Fr.
Cuniculitremaceae J.P. Samp., R. Kirschner & M. Weiss
Fellomyces Y. Yamada & I. Banno 1984
Kockovaella Nakase, I. Banno & Y. Yamada 1991
Sterigmatosporidium G. Kraep. & U. Schulze 1983, anamorphic *Cuniculitrema* J.P. Samp. & R. Kirschner 2001

Hyaloriaceae Lindau
Helicomyxa R. Kirschner & Chee J. Chen 2004

Tremellaceae Fr.
Bullera Derx 1930
Bulleribasidium J.P. Samp., M. Weiss & R. Bauer 2002
Bulleromyces Boekhout & Á. Fonseca 1991
Cryptococcus Vuill. 1901, anamorphic *Filobasidiella* Kwon-Chung 1976
Hormomyces Bonord. 1851, anamorphic *Tremella* Pers. 1794
Hormomyces-like anamorphic *Biatoropsis* Räsänen 1934
Tsuchiyaea Y. Yamada, H. Kawas., Itoh, I. Banno & Nakase 1988

Trichosporonaceae Nann.
Asterotremella Prillinger, Lopandic & Sugita 2007
Trichosporon Behrend 1890
Tritirachium-like, anamorphic *Neorehmia* Höhn. 1902

Tremellales genera *incertae cedis*
Derxomyces F.Y. Bai & Q.M. Wang 2008
Hannaella F.Y. Bai & Q.M. Wang 2008
Tremellina Bandoni 1986

Tremellomycetes, genera *incertae sedis*
Heteromycophaga P. Roberts 1997
Moniliella Stolk & Dakin 1966
Trichosporonoides Haskins & J.F.T. Spencer 1967

AGARICOMYCOTINA, genera *incertae sedis*
Microstella K. Ando & Tubaki 1984

Subphylum *PUCCINIOMYCOTINA* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw
Class *Agaricostilbomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Agaricostilbales Oberw. & R. Bauer
Agaricostilbaceae Oberw. & R. Bauer
Bensingtonia Ingold 1986
Sterigmatomyces Fell 1966

Chionosphaeraceae Oberw. & Bandoni
Kurtzmanomyces Y. Yamada, Itoh, H. Kawas., I. Banno & Nakase 1989
Mycogloea L.S.Olive 1950

Class *Atractiellomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Atractiellales Oberw. & Bandoni
Phleogenaceae Gäum.
Basidiopycnides J. Reid, Eyjólfsd. & Georg Hausner 2008, anamorphic *Basidiopycnis* Oberw., R. Kirschner, R. Bauer, Begerow & Arenal 2006*

Saccoblastiaceae Jülich
Infundibura Nag Raj & W.B. Kendr. 1981

Atractiellales, genera *incertae sedis*
Hobsonia Berk. ex Massee 1891
Leucogloea R. Kirschner 2004

Class *Classiculomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Classiculales R. Bauer, Begerow, Oberw. & Marvanová
Classiculaceae Bauer, Begerow, Oberw. & Marvanová
Jaculispora H.J. Huds. & Ingold 1960
Naiadella Marvanová & Bandoni 1987, anamorphic *Classicula* R. Bauer, Begerow, Oberw. & Marvanová 2003

Class *Cryptomycocolacomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Cryptomycocolacales Oberw. & R. Bauer
Cryptomycocolacaceae Oberw. & R. Bauer
Colacosiphon R. Kirschner, R. Bauer & Oberw. 2001

Class *Cystobasidiomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Erythrobasidiales, genera *incertae sedis*
Bannoa Hamam. 2002
Erythrobasidium Hamam., Sugiy. & Komag. 1988

Class *Microbotryomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Heterogastridiales Oberw. & R. Bauer
Heterogastridiaceae Oberw. & R. Bauer
Hyalopycnis Höhn. 1918, anamorphic *Heterogastridium* Oberw. & R. Bauer 1990

Leucosporidiales J.P. Samp., M. Weiss & R. Bauer
Leucosporidiaceae Jülich
Leucosporidiella Samp. 2003

Microbotryales R. Bauer & Oberw., genera *incertae sedis*
Reniforma Pore & Sorenson 1990

Sporidiobolales Doweld
Sporidiobolaceae R.T. Moore
Blastoderma B. Fisch. & Brebeck 1894, anamorphic *Sporidiobolus* Nyland 1950
Rhodomyces Wettst. 1885, anamorphic *Sporidiobolus* Nyland 1950
Sporobolomyces Kluyver & C.B. Niel 1924, anamorphic *Sporidiobolus* Nyland 1950

Sporidiobolales, genera *incertae cedis*
Ballistosporomyces Nakase, G. Okada & Sugiy., in Nakase, Okada, Sugiyama, Itoh & Suzuki 1989
Erythrobasidium Hamam., Sugiy. & Komag. 1988, anamorphic *Rhodosporidium* Banno 1967
Rhodotorula F.C. Harrison 1927, anamorphic *Rhodosporidium* Banno 1967

Microbotryomycetes, genera *incertae sedis*
Crucella Marvanová & Suberkr. 1990, anamorphic *Camptobasidium* Marvanová & Suberkr. 1990

Class *Pucciniomycetes* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Helicobasidiales R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Helicobasidiaceae P.M. Kirk
Thanatophytum Nees 1816, anamorphic *Helicobasidium* Pat. 1885
Tuberculina Tode ex Sacc. 1880, anamorphic *Helicobasidium* Pat. 1885

Platygloeales R.T. Moore
Eocronartiaceae Jülich
Glomopsis D.M. Hend. 1961, anamorphic *Herpobasidium* Lind 1908

Uncolaceae Buriticá
Calidion Syd. & P. Syd. 1919

Pucciniales Clem. & Shear
Coleosporiaceae Dietel
Chrysomyxa Unger 1840, ?anamorphic *Peridermium* (Link) J.C. Schmidt & Kunze 1817

Cronartiaceae Dietel
Cronartium Fr. 1815, ?anamorphic *Peridermium* (Link) J.C. Schmidt & Kunze 1817

Phakopsoraceae Cummins & Hirats. f.
Aeciure Buriticá & J.F. Hennen 1994, anamorphic *Arthuria* H.S. Jacks
Milesia F.B. White 1878, anamorphic *Phakopsora* Dietel 1895 but see *Milesina* Magnus 1909*
Macabuna Buriticá & J.F. Hennen 1994
Malupa Y. Ono, Buriticá & J.F. Hennen 1992
Physopella Arthur 1906, anamorphic *Cerotelium* Arthur 1906 and *Phakopsora* Dietel 1895*
Uredendo Buriticá & J.F. Hennen 1994, anamorphic *Phakopsora* Dietel 1895
Uredostilbe Buriticá & J.F. Hennen 1994

Phragmidiaceae Corda
Gerwasia Racib. 1909, anamorphic *Campanulospora* Salazar-Yepes, Pardo-

Card. & Buriticá 2007, *Morispora* Salazar-Yepes, Pardo-Card. & Buriticá 2007 and *Scutelliformis* Salazar-Yepes, Pardo-Card. & Buriticá 2007
Physonema Lév. 1847, anamorphic *Phragmidium* Link 1815

Puccineaceae Chevall.
Caeoma Link 1809
Roestelia Rebent. 1804, anamorphic *Gymnosporangium* R. Hedw. ex DC. 1805

Pucciniastraceae Gäum. ex Leppik
Milesia F.B. White 1878, anamorphic *Milesina* Magnus 1909, but see *Phakopsora* Dietel 1895*
Peridiopsora Kamat & Sathe 1969, anamorphic *Milesina* Magnus 1909
Pomatomyces Oerst. 1864, anamorphic *Thekopsora* Magnus 1875
Pucciniastrum G.H. Otth 1861, ?anamorphic *Peridermium* (Link) J.C. Schmidt & Kunze 1817

Uropyxidaceae Cummins & Y. Hirats.
Canasta A.A. Carvalho & J.F. Hennen 2010, anamorphic *Prospodium* Arthur 1907*

Pucciniales, genera *incertae sedis*
Elateraecium Thirum., F. Kern & B.V. Patil 1966, anamorphic *Hiratsukamyces* Thirum., F. Kern & B.V. Patil 1975
Intrapes J.F. Hennen & Figueiredo 1979
Uraecium Arthur 1933
Uredo Pers. 1801

Septobasidiales Couch ex Donk
Septobasidiaceae Racib.
Johncouchia S. Hughes & Cavalc. 1983, anamorphic *Septobasidium* Pat. 1892

Subphylum *USTILAGINOMYCOTINA* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw.
Class *Exobasidiomycetes* Begerow, M. Stoll, R. Bauer

Exobasidiomycetes, orders *incertae sedis*
Doassansiales R. Bauer & Oberw.
Doassansiaceae R.T. Moore ex P.M. Kirk, P.F. Cannon & J.C. David
Savulescuella Cif. 1959, anamorphic *Doassansia* Cornu 1883

Entylomatales R. Bauer & Oberw.
Entylomataceae R. Bauer & Oberw.
Entylomella Höhn. 1924, anamorphic *Entyloma* de Bary 1874
Tilletiopsis Derx 1948, anamorphic *Entyloma* de Bary 1874 and *Melanotaenium* de Bary 1874

Microstromatales R. Bauer & Oberw.
Microstromataceae Jülich
Sympodiomycopsis Sugiy., Tokuoka & Komag. 1991

Class *Ustilaginomycetes* R. Bauer, Oberw. & Vánky
Urocystidales R. Bauer & Oberw.
Glomosporiaceae Cif.
Rhombiella Liro 1939, anamorphic *Thecaphora* Fingerh. 1836
Thecaphorella H. Scholz & I. Scholz 1988, anamorphic *Thecaphora* Fingerh. 1836

Ustilaginales G. Winter
Anthracoideaceae Denchev
Crotalia Liro 1938, anamorphic *Anthracoidea* Bref. 1895

Cintractiellaceae Vánky
Naiadella Marvanová & Bandoni 1987, anamorphic *Classicula* R. Bauer, Begerow, Oberw. & Marvanová 2003

Ustilaginaceae Tul. & C. Tul.
Pseudozyma Bandoni 1985
Ustilaginomycetes, orders *incertae sedis*

Urocystidiales R. Bauer & Oberw.
Urocystidaceae Begerow, R. Bauer, & Oberw.
Paepalopsis J.G. Kühn 1882, anamorphic *Urocystis* Rabenh. ex Fuckel 1870

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

BASIDIOMYCOTA, class *incertae sedis*
Wallemiomycetes Zalar, de Hoog & Schroers
Wallemiales Zalar, de Hoog & Schroers

Wallemiaceae R.T. Moore
Wallemia Johan-Olsen 1887

BASIDIOMYCOTA, genera *incertae sedis*
Anastomyces W.P. Wu, B. Sutton & Gange 1997
Anguillomyces Marvanová & Bärl. 2000
Arcispora Marvanová & Bärl. 1998

Discussion

The study reveals that there are approximately 2873 anamorphic genera names of which 699 genera and 94 anamorph-like genera are linked to teleomorphic genera names, 447 are linked to teleomorph families, orders or classes, while for about 1728 (60.25%) genera no teleomorph link is known.

The data used in this compilation are mostly from Index Fungorum, Species Fungorum and Kirk et al. (2008), plus publications during 2009 and 2010 that were available before the manuscript was sent to press. Thus it is not inclusive and it is planned to improve the compilation in future issues. Take the case of *Hysteriaceae* in which four anamorphic genera are listed (*Acrogenospora*, *Aposphaeria*, *Plenodomus*, *Septonema*). Boehm et al. (2009a) however state that the coelomycetous pycnidial states (e.g. *Aposphaeria*, *Hysteropycnis*) and dematiaceous hyphomycetous anamorphs (e.g. *Coniosporium*, *Septonema*, *Sirodesmium*, *Sphaeronaema* and *Sporidesmium*) have been described for this family. Four anamorphs are listed for *Mytilinidiaceae* in this compilation (*Camaroglobulus*, *Chalara*-like, *Papulaspora*-like, *Septonema*-like), however Boehm et al. (2009a) state that anamorphic states in the family are primarily coelomycetous (e.g. *Aposphaeria*, *Camaroglobulus*, *Dothiorella*, *Pyrenochaeta*, *Sclerochaeta*) and less frequently hyphomycetous (e.g. *Chalara*-like, *Papulaspora*, *Peyronelia*, *Septonema*). It is obvious that similar linkages will be missing from other entries. However, many anamorph/teleomorph conections were recorded based on appearance of the two states in close proximity on a substate and the connection has not inequiviqually been proven. It was also difficult to locate all new genera, especially data on anamorphic placement between the publication of Kirk et al. (2008) and literature published before 2009. We hope to incorporate any missing data in future issues. In future issues we will also examine the literature from which connections are extracted to establish their basis.

Although we have used data from peer reviewed published data we have no way to confirm the validity of the species names used in various phylogenetic analyses. Where generic types were sequenced we have stated this, but again it is not clear whether correct names have been applied to these taxa or whether they are strains of type material (in most cases they are not). Because of their wide ranging occurrence as anamorphic ascomycota, we have only dealt with *Phoma* species when publications specifically resolve this genus.

The naming of fungi has long been problematic because of the dual nomenclature system. The system was introduced because it was previously often impossible to link a sexual form with the asexual form and therefore there was a need to be able to name both forms (Shenoy et al. 2007). There are extensive discussions on this topic, which will not be repeated here, but they generally agree that the dual nomenclature system is becoming redundant and should be replaced with a modern system using one name for a biological species (Shenoy et al. 2007, 2010). With the advent of the molecular era it is often possible to link the anamorph with the teleomorph, and if there is no obvious teleomorph it is becoming increasing feasible to establish the relationship of the anamorphic genus within the teleomorph taxonomic framework.

There are presently at least four schools of though on how anamorphic genera and species names should be dealt with in the future and the above compilation helps to reveal some of the problems associated with any approach. The first school believes that only one name should be used for a biological species and that this name should follow the sexual state since this state has more biological significance. Although this argument is compelling the mycological community must deal with important asexual genera that are very well known to the wider scientific community (e.g. *Aspergillus*, *Penicillium*, *Trichoderma*), which would disappear from usage, and perhaps make a ridicule of fungal taxonomic approaches. This could be overcome by conserving some of the important

anamorph or teleomorph names. A second school believes that the earliest introduced name should be used. Again this idea has merit but may mean that some well known genera would disappear from usage; however conservation of certain names could also be applied to solve this problem. The third school favour *status quo*, and again there is merit in keeping a system that does work, but is confusing to most within and outside the fungal taxonomic community. A fourth school has started to adopt these approaches. Several authors have described new teleomorphic genera and do not give names to the asexual states but describe them as part of the teleomorph species. The problem with this approach is that it is hard for researchers to link a characteristic anamorph (i.e. those with a specific set of features) with a teleomorph genus and such data does not get entered in databases; thus we have tried to include these in this compilation. Other authors have introduced new anamorphic species and described the teleomorph state. This approach has generally been adopted where the anamorphic name is better known to the scientific community or where the teleomorph name is polyphyletic. Whichever of the above approaches is most appropriate requires considerable debate and is not elaborated on here as it is not the purpose of the compilation. It will be several years before a consensus is reached; however, there are moves ahead to promote various approaches and the next few years will be interesting and perhaps controversial

There has been a long tradition of not naming the anamorphic stages in the *Basidiomycota* (Kirschner & Oberwinkler 2009), however many have been named and are listed in the compilation.

Notes (1-307)

Notes are provided on recent published data on anamorphic taxa. Notes are provided if new data is published in relation to the phylogeny, if changes in anamorph or teleomorph linkages have been revealed and if new genera are introduced. If well known connections are confirmed we may provide data from one or more publications, however, in many cases we did not cite these data as the known connections are unchanged.

Acremonium Link (1)

In a survey of mycotic skin and nail lesions from humans in Chiriquí, Western Panama, a darkly pigmented *Acremonium*-like taxon was isolated. Morphological investigation and phylogenetic analysis based on LSU rDNA and ITS sequences revealed that this species represents an undescribed member of the *Plectosphaerellaceae*. The species is described as *Acremonium collariferum* because of its similarities to other *Acremonium* species and its distinct collarette (Weisenborn et al. 2010).

***Acremonium*-like (2)**

Plishka et al. (2009) reported an *Acremonium* anamorph for *Nigrosabulum globosum* Malloch & Cain of *Bionectriaceae*, while Lechat & Courtecuisse (2010) described a new species of *Ijuhya* with an *Acremonium*-like anamorph.

Acephala Grünig & T.N. Sieber (3)

Grünig et al. (2009) found that two species clustered near *Vibrissea* (*Vibrisseaceae*) while one unnamed species clustered near *Loramyces* showing the polyphyletic nature of this genus.

Akanthomyces Lebert (4)

These spider pathogens formed a well supported subclade but were not linked to *Torrubiella* (Johnson et al. 2009).

Ambrosiella Brader ex Arx & Hennebert (5)

Multigene phylogenetic analysis showed this genus to have *Ophiostoma* and *Grosmannia* anamorphs (Massoumi Alamouti et al. 2009). Five species of *Ambrosiella* clustered in a novel clade within *Ophiostoma*, while two species clustered with *Raffaelea* and *Dryadomyces* and were related to *Grosmannia*.

Ampelomyces Ces. ex Schltdl. (6)

One species of this genus clustered in *Didymellaceae* following multigene phylogenetic analysis (Averkamp et al. 2010).

Amplistroma Huhndorf, A.N. Mill., M. Greif & Samuels (7)

Huhndorf et al. (2009) described this teleomorphic genus in *Amplistromataceae* with *Acrodontium*-like anamorphs.

Ampullicephala R.F. Castañeda, Minter & M. Stadler (8)

Castañeda Ruiz et al. (2009a) described this new genus to accommodate *Pleurotheciopsis setiformis* R.F. Castañeda. No teleomorph relationship is known.

Anaselenosporella Heredia, R.F. Castañeda & R.M. Arias (9)

Castañeda Ruiz et al. (2010a) introduced this new monotypic hyphomycete genus from Mexico. No teleomorph relationship is known.

Anguillospora Ingold (10)

Shearer et al. (2009) showed the generic type to be anamorphic *Amniculicolaceae* based on phylogenetic analyses of SSU and/or LSU genes.

Antennariella Bat. & Cif. (11)

Crous et al. (2009a) showed one species in this genus to be a member of *Capnodiaceae* in a phylogeny derived from partial LSU genes indicating that the anamorphic genus may be polyphyletic as it has already been linked with *Antennulariella* in *Antennulariellaceae*. Cheewangkoon et al. (2009) introduced a new species in the genus in *Capnodiales* based on LSU gene analysis.

Anthonectria Döbbeler (12)

Döbbeler (2010) introduced a new teleomorphic genus from the developing sporophytes of *Drepanolejeunea* sp. which had a pulvinate anamorphic state with ramifying cylindrical conidiogenous cells and small globose colourless conidia.

Aplosporella Speg. (13)

Taylor et al. (2009) described a new species from Australia. The teleomorph is unknown, however some species clustered basal to *Botryosphaeriaceae*. This genus has over 300 species and appears to be heterogenous; therefore not all species are likely to belong in *Botryosphaeriaceae*.

Aposphaeria Sacc. (14)

Aveskamp et al. (2010) confirmed one species belonged in *Melanommataceae* following multigene analysis.

***Aposphaeria*-like (15)**

Boehm et al. (2009a) described *Gloniopsis* and the new teleomorph genus *Hysterobrevium* as having *Aposphaeria*-like anamorphs.

Aquaticheirospora Kodsueb & W.H. Ho (16)

Shearer et al. (2009) showed the generic type to be anamorphic *Massarinaceae* based on phylogenetic analyses of SSU and/or LSU genes.

Arthrobotrys Corda (17)

Li et al. (2009) described a new member of this genus as anamorphic *Orbilia*.

Aschersonia Mont. (18)

Confirmed as anamorphic *Moelleriella* (Tadych et al. 2009) and anamorphic *Hypocrella* (Mongkolsamrit et al. 2009).

Ascochyta Lib. (19)

Ascochyta pisi Lib. was linked to the teleomorph *Didymella pisi* Chilvers, J.D. Rogers & Peever (Chilvers et al. 2009). Aveskamp et al. (2010) noted the polyphyletic nature of this genus.

Aspergillus P. Micheli ex Link (20)

Two species of teleomorphic *Neosartorya* with anamorphs in *Aspergillus* section *Fumigati* were described by Yaguchi et al. (2010).

Aureobasidium Viala & G. Boyer (21)

Suetrong et al. (2009) showed one species to be anamorphic *Dothideaceae* based on phylogenetic analyses of four genes.

Asterosporium Kunze (22)

Tanaka et al. (2010) transferred one species in this genus to *Prosthemium* and found that another species lay in *Diaporthales*. The type species was not used in this study.

Aurosphaeria Sun J. Lee, Strobel, Eisenman, Geary, Vargas & S.A. Strobel (23)

Lee et al. (2009) described this new endophytic pycnidial coelomycetous genus from the Bolivian Amazon. Molecular data provided no clues for the placement of this taxon other than in the Ascomycota.

Bagadiella Cheewangkoon & Crous (24)

Cheewangkoon et al. (2009) introduced this genus for a single species from *Eucalyptus*. The phylogenetic placement is not clear although it was related to *Plectosphaera* in *Phyllachoraceae*. The authors state that *Bagadiella* is similar to *Cladorrhinum* and is related to *Apiosordaria* in *Lasiosphaeriaceae* and we have followed the latter classification here.

Bahusutrabeeja Subram. & Bhat (25)

Shenoy et al. (2010) found the type species is phylogenetically related to *Neodeightonia* (*Botryosphaeriaceae*).

Barriopsis A.J.L. Phillips, A. Alves & Crous (26)

Abdollahzadeh et al. (2009) describe a second species in the genus and show this and the generic type to be anamorphic *Botryosphaeriaceae* based on molecular sequence analysis.

Basidiopycnides J. Reid, Eyjólfsd. & Georg Hausner (27)

Kirschner & Oberwinkler (2009) considered this monotypic genus to be identical with the hyphomycete anamorph of *Basidiopycnis*, which is also monotypic.

Batcheloromyces Marasas, P.S. van Wyk & Knox-Dav. (28)

Crous et al. (2009b) showed the generic type and one species clustered in Clade 2 of *Teratosphaeriaceae*, while one putative species clustered in Clade 4. It has a *Catenulostroma* synanamorph (Crous 2009).

Baudoinia J.A. Scott & Unter. (29)

This is anamorphic *Teratosphaeriaceae* (Crous et al. 2009a,d) based on molecular sequence analysis.

Beverwykella Tubaki (30)

Zhang et al. (2009) showed the generic type to be anamorphic *Melanommataceae* based on phylogenetic analyses of five genes.

Bhatia W.A. Baker & Morgan-Jones (31)

Gams et al. (2009) introduced this new hyphomycete genus to accommodate a species of *Acrodictys* which differs from other genera in the *Acrodictys* complex. No teleomorph relationship is known.

Boeremia Aveskamp, Gruyter& Verkley (32)

This genus was introduced by Aveskamp et al. (2010) to accommodate ten species and ten varieties mostly based on combination of *Phoma* species and varieties and is accommodated in *Didymellaceae*.

Brachiosphaera Nawawi (33)

Shearer et al. (2009) conducted molecular sequence-based phylogenetic analyses using nuclear ribosomal sequences (SSU and/or LSU) and showed this to be anamorphic *Aliquandostipitaceae*, which comprise only freshwater species.

Bruneosphaerella Crous (35)

This teleomorphic genus was introduced by Crous et al. (2009a) and is a member of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis; the anamorph was stated to be *Coniothyrium*-like and possibly *Phaeophloeospora*.

Brycekendrickomyces Crous & M.J. Wingf. (35)

Introduced by Crous et al. (2009d) to accommodate a new hyphomycete genus from Indonesia which clustered in *Herpotrichiellaceae* based on LSU sequence analysis.

Cadophora Lagerb. & Melin (36)

Nekoduka et al. (2010) found that three species of this genus clustered in *Helotiales* following ITS gene sequence analysis.

Cadophora-like (37)

Grünig et al. (2009) found this to be the anamorph of *Phaeomollisia*. However, they could not distinguish clearly between *Cadophora* and *Phialocephala* reporting intermediate forms.

Canalisporium Nawawi & Kuthub. (38)

Sri-indrasutdhi et al. (2010) described the new teleomorph genus *Ascothailandia* which produced a *Canalisporium* anamorph. Phylogenetic analysis of 18S and 28S rDNA sequences showed *Ascothailandia*, the generic type and nine other *Canalisporium* species to belong in *Hypocreomycetidae*.

Canasta A.A. Carvalho & J.F. Hennen (39)

This anamorphic genus (Carvalho & Hennen 2010) was described to accommodate species closely related to *Prospodium* (*Uropyxidaceae*)

Capnobotryella Sugiy. (40)

Crous et al. (2009a,d) confirmed the generic type to be anamorphic *Teratosphaeriaceae* based on molecular sequence analysis.

Catenulifera Hosoya (41)

Bogale et al. (2010) confirmed this genus to be anamorphic *Hyphodiscus* with all species analysed clustering in a monophyletic clade with morphologically similar species of *Phialophora*, with the exception of *P. hyalina*. Two species of *Phialophora* were transferred to *Catenulifera* and one new species was described. The phylogenetic positions of *Catenulifera* and *Hyphodiscus* within the *Helotiales* could not be resolved.

Catenulostroma Crous & U. Braun (42)

Crous et al. (2009a,b) confirmed the generic type and five other species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis.

Cercospora Fresen. (43)

Crous et al. (2009a,d) showed seven species in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Cercosporella Sacc. (44)

Kirschner (2009) showed species in this genus to cluster in *Mycosphaerellaceae* with one species close to *Ramularia* and others close to *Mycosphaerella* and *Pseudocercospora*. Crous et al. (2009a,d) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Chaetopsina Rambelli (45)

Luo & Zhang (2010) introduced a new teleomorphic genus *Chaetopsinectria*, which is distinct from *Cosmospora* and has *Chaetopsina* anamorphs.

Chaetosphaeronema Moesz (46)

Zhang et al. (2009) showed one species to be anamorphic *Phaeosphaeriaceae* based on phylogenetic analyses of five genes.

Cheirosporium L. Cai & K.D. Hyde (47)

Shearer et al. (2009) showed the generic type to be anamorphic *Massarinaceae* based on phylogenetic analyses of SSU and LSU genes.

Chrysosporium Corda (48)

Nováková & Kolařik (2010) described a new species of this genus in *Onygenales* from bat guano in caves. They showed by rDNA sequence analysis that the species was possibly a relative of *Renispora*, while *C. chiropterorum* Beguin & Larcher was linked to *Polytolypa*.

Cibiessia Crous (49)

Crous et al. (2009b) showed that two strains of the generic type and two other species clustered with *Readeriella* clade of *Teratosphaeriaceae*.

Cladophialophora Borelli (50)

Koukol (2010) isolated a strain of this genus from pine litter which was treated as a new species, *C. matsushimae* Koukol. A 28S rDNA data matrix showed this strain to be basal in *Cladophialophora* confirming the polyphyly of the genus.

Chaetospermum Sacc. (51)

Kirschner & Oberwinkler (2009) found evidence to support the relationship between this genus and the basidiomycete *Efibulobasidium*.

Chalara (Corda) Rabenh. (52)

Phyogenetic relationships of 26 strains of *Chalara* and allied genera were investigated by analysis of rDNA (Cai et al. 2009a). Most

Chalara strains clustered in a strongly supported monophyletic lineage across a wide range of *Helotiales*, while a few strains seemed close to *Xylariales*, however, the generic type strain was not used in this study. They also suggest that the phenotypes of *Chalara*-like species have multiple evolutionary origins.

Chaetasbolisia Speg. (53)

Aveskamp et al. (2010) found the generic type to cluster in *Didymellaceae* in a multigene phylogenetic analysis.

Chaetochalara B. Sutton & Piroz. (54)

Cai et al. (2009a) showed this genus to be phylogenetically inseparable from *Chalara* with strains clustering in *Helotiales* and *Xylariales*, however, they did not use the generic type strain in their study.

Chaetosphaeronema Moesz (55)

Gruyter et al. (2010) proposed a new combination to this genus, which along with *C. hispidulum* (Corda) Moesz, is anamorphic *Phaeosphaeriaceae*.

Chalastospora E.G. Simmons (56)

Crous et al. (2009e) showed the generic type and four other taxa in the genus to be anamorphic *Pleosporaceae* based on analysis of LSU sequence data.

Chasakopama Manohar., Bagyan., N.K. Rao & Kunwar (57)

Introduced by Manoharachary et al. (2009) for a new hyphomycete genus characterized by discrete, polyblastic, denticulate conidiogenous cells and single campanulate condia with two dark bands. No teleomorph relationship is known.

Cheiroidea W.A. Baker & Morgan-Jones (58)

Gams et al. (2009) introduced this new hyphomycete genus to accommodate a species of *Acrodictys* primarily based on its peculiar cheiroid conida. No teleomorph relationship is known.

Chrysoporthe Gryzenh. & M.J. Wingf. (59)

Chungu et al. (2010) described two anamorphic stem canker pathogens under the teleomorph name *Chrysoporthe* even though the teleomorph stage was not formed and is unknown. They argued that it is unnessecary to introduce these new species under the anamorphic name (*Chrysoporthella*) as this has confused understanding of species in the genus. To further ensure a stable and less confusing taxonomy for *Chrysoporthe*, the authors combine the only anamorphic species (*Chrysoporthella hodgesiana* Gryzenh. & M.J. Wingf.) linked to the genus as *Chrysoporthe hodgesiana* (Gryzenh. & M.J. Wingf.) Chungu, Gryzenh. & M.J. Wingf. This encourages the use of a one name system for the genus.

Chrysosporium Corda (60)

Liang et al. (2009a) described a new species in the genus. ITS sequence data confirmed that this and other species used in the phylogenetic analysis have a close phylogenetic relationship with the teleomorph genus *Aphanoascus*.

Cirrenalia Meyers & R.T. Moore (61)

The type species *Cirrenalia macrocephala* (Kohlm.) Meyers & R.T. Moore was well placed in the *Halosphaeriaceae* while other taxa were assigned to other genera (Abdel-Wahab et al. 2010).

Cladosporium Link (62)

The generic type and two species in this genus were shown to be members of *Davidiellaceae* in a phylogeny derived from five genes (Schoch et al. 2009). Crous et al. (2009a) also demonstrated that four species of *Cladosporium* were members of *Davidiellaceae* in a phylogeny derived from three genes.

Claviradulomyces P.R. Johnst., D.C. Park, H.C. Evans, R.W. Barreto & D.J. Soares (63)

Evans et al. (2010a) introduced this teleomorph new genus in *Odontotremataceae* for a discomycete from Western Africa. A putative pycnidial anamorph was consistently associated with the gall-like eruptions, often together with the teleomorph. The conidia were morphologically similar to the ascospores but a link was not confirmed as cultures were not derived from single ascospores.

Collophora Damm & Crous (64)

Damm et al. (2010) introduced this new coelomycetous genus with five new species

which they placed in *Leotiomycetes* based on sequence analysis. The isolates were from *Prunus* trees and resembled *Lecythophora* but were distinguishable morphologically and phylogenetically.

Colletogloeopsis Crous & M.J. Wingf. (65)

Crous et al. (2009b) showed by analysis of LSU sequence data that six species clustered in Clade 4 of *Teratosphaeriaceae* with *Teratosphaeria sensu stricto*.

Colletotrichum Corda (66)

Cai et al. (2009b), Damm et al. (2009) and Hyde et al. (2009) extensively reviewed this genus with links to the *Glomerella* teleomorphs supported by molecular phylogenetic analysis, while Prihastuti et al. (2009) and Yang et al. (2009) described the *Glomerella* teleomorph state for some species.

Conidioxyphium Bat. & Cif. (67)

Schoch et al. (2009) and Crous et al. (2009a) showed one species in this genus to be a member of *Capnodiaceae* in a phylogeny derived from combined analysis of five genes or from partial LSU genes.

Coniella Höhn. (68)

Cheewangkoon et al. (2010) confirmed one species to be a member of *Schizoparmaceae*.

Coniosporium Link (69)

Sert & Sterflinger (2010) described a new species of *Coniosporium* from historical marble monuments which judged by SSU phylogeny data belonged to *Chaetothyriales* and was related to *Mycocalicium* Vain. ex Reinke. Ruibal et al. (2009) found that two species inhabiting rocks were anamorphic *Dothideomycetes* indicating the genus is polyphyletic.

Coniothyrium Corda (70)

Aveskamp et al. (2010) used four species in this genus in a multigene phylogeny of *Phoma* species which clustered in four separate clades indicating the polyphyletic nature of this genus. The generic type clustered in the *Leptosphaeriaceae/Pleosporaceae* clade.

Corynesporina Subram. (71)

Gams et al. (2009) validated this new hyphomycete genus to accommodate a species of *Acrodictys* primarily based on its peculiar cheiroid conida. No teleomorph relationship is known.

Crucellisporium M.L. Farr (72)

Marincowitz et al. (2010) showed this to be anamorphic *Helotiales*.

Cryomyces Selbmann, de Hoog, Mazzaglia, Friedmann & Onofri (73)

Ruibal et al. (2009) confirmed that two species inhabiting rocks were anamorphic *Dothideomycetes*.

Cryptosporiopsis Bubák & Kabát (74)

Cheewangkoon et al. (2010) described two new species in the genus that they considered belonging to *Dermateaceae*.

Cumulospora I. Schmidt (75)

Both species of this genus clustered in *Lulworthiales*, *Lulworthiaceae* with *Cumulospora marina* I. Schmidt linked to an unknown *Lulworthia* species and *Cumulospora varia* Chatmala & Somrith. 2004 (as *Moromyces varius*) grouping with *Lulwoana uniseptata* (Nakagiri) Kohlm., Volkm.-Kohlm., J. Campb., Spatafora & Gräfenhan 2005 (Abdel-Wahab et al. 2010).

Custingophora Stolk, Hennebert & Klopotek (76)

Kolařik & Hulcr (2009) accepted a broader concept for *Custingophora* when they combined *Knoxdaviesia*. They described a new species of *Gondwanamyces* and listed the anamorph as *Custingophora*-like.

Cylindrocladium Morgan (77)

Lombard et al. (2010) provided a monograph of *Calonectria* and its *Cylindrocladium* anamorph.

Cyphellophora G.A. de Vries (78)

Crous et al. (2009e) confirm the placement of this genus in *Chaetothyriaceae* based on LSU gene sequence analysis.

Cystocoleus Thwaites (79)

Ruibal et al. (2009) showed the generic type is anamorphic *Teratosphaeriaceae*.

Cytospora Ehrenb. (80)

Fotouhifar et al. (2010) examined the associated teleomorphs of this genus in Iran, which clustered with *Leucostoma* and *Valsa* species.

Davisoniella H.J. Swart (81)

Crous (2009) list this as anamorphic *Teratosphaeriaceae*.

***Dematophora*-like** (82)

Takemoto et al. (2009) introduced a new species of *Rosellinia* with a *Dematophora*-like anamorph with synnemata and conspicuously cicatrized and geniculate conidiophores.

Dendryphiella Bubák & Ranoj. (83)

Shearer et al. (2009), Suetrong et al. (2009) and Zhang et al. (2009a) showed species in this genus to be anamorphic *Pleosporaceae* based on phylogenetic analyses of various genes.

Devriesia Seifert & N.L. Nick. (84)

Crous et al. (2009a,d) confirmed four species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis. Koukol (2010) found a strain from pine litter that clustered with *D. americana* Crous & Dugan in *Teratosphaeriaceae*. Frank et al. (2010) described a new species in the genus which is shown to be paraphyletic, and to represent several lineages of which only *Devriesia* s.str. is thermotolerant. They suggested that further collections are required, before the latter generic complex can be resolved.

Diatrypasimilis J. Zhou & Kohlm. (85)

This new teleomorphic genus was described with a *Selenosporella*-like anamorph by Chalkley et al. (2010).

Dictyosporium Corda (86)

Crous et al. (2009e) showed one species in *Pleosporaceae incertae sedis* based on LSU gene sequence analysis.

Diplococcium Grove (87)

Shenoy et al. (2010) referred the generic type to *Helotiales* and a second species to *Pleosporales* showing that the genus does not represent a natural grouping.

Diplodia Fr. (88)

Begoude (2010) studied *Botryosphaeriaceae* associated with *Terminalia catappa* and phylogenetic analysis confirmed placement of *Diplodia*.

Dissoconiaceae Crous & de Hoog (89)

This family was introduced in *Capnodiales* for taxa with *Mycosphaerella*-like teleomorphs and *Dissoconium* anamorphs based on two-gene phylogenetic analyses using nucSSU and nucLSU rDNA (Crous et al. 2009a).

Dissoconium de Hoog, Oorschot & Hijwegen (90)

Crous et al. (2009a,d) confirmed the generic type and four species to be anamorphic *Dissoconiaceae* based on partial LSU gene analysis.

Dothiorella Sacc. (91)

Two new species are described in the genus in a paper on *Botryosphaeriaceae* from Australia. The teleomorph is stated as assumed to be *Dothidotthia* based on phylogenetic analysis (Taylor et al. 2009) and if this was the case the genus should belong in *Dothidothiaceae*? Zhang et al. (2009b) described a new species from *Populus* in China with a *Spencermartinsia* teleomorph.

Dothistroma Hulbary (92)

Crous et al. (2009a,d) showed two species in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Diplosporonema Höhn. (93)

This genus was described as new to Turkey and it was noted to be the anamorph of *Pyrenopezia* (Erdoğdu & Hüseyin 2009)

Drechslerella Subram. (94)

Yu et al. (2009) described a new species in this genus as anamorphic *Orbilia*.

Dryadomyces Gebhardt (95)

Massoumi Alamouti et al. (2009) showed this is anamorphic *Grosmannia* and possibly forms a monophyletic clade with some *Ambrosiella* species and *Raffaelea*.

Echinoconidiophorum Pereira-Carv. & Dianese (96)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on living leaves of *Gomidesia*. No taxonomic placement was given.

Edenia M.C. González, Anaya, Glenn, Saucedo & Hanlin (97)

Crous et al. (2009d) showed the generic type to be anamorphic *Pleosporaceae* based on LSU gene data analysis.

Eladia G. Sm. (98)

Although this genus is regarded as a synonym of *Penicillium* (Kirk et al. 2008), Jiang & Zhang (2009) described two new species in the genus.

Elotespora R.F. Castañeda & Heredia (99)

This remarkable new genus was introduced by Castañeda Ruiz et al. (2010b). It has minute cupulate conidiomata in which a single muriform conidium is formed. It was not linked to any teleomorph.

Endogenospora R.F. Castañeda, O. Morillo & Minter (100)

Castañeda Ruiz et al. (2010c) introduced this new monotypic hyphomycete genus from Venuzuala. No teleomorph relationship is known.

Endothiella Sacc. 1906 (101)

Cheewangkoon et al. (2010) confirmed one species in this genus to be *Schizoparmaceae*.

Epicoccum Link (102)

Aveskamp et al. (2010) reinstated this genus to accommodate the generic type and two *Phoma* species, which they formerly transferred. Multigene phylogenetic analysis showed the genus to lie in *Didymellaceae*.

Fecundostilbum Prameela & Chowdhry (103)

Devi (2009) introduced this new anamorphic genus with no known taxonomic placement.

Fibulochlamys A.I. Romero & Cabral (104)

Madrid et al. (2010a) described a new species in this genus that is related to members of gilled *Agaricales*.

Flahaultiella Seifert (105)

Gams et al. (2009) introduced this genus for *Flahaultia* G. Arnaud 1951, which is preoccupied by a red alga. They suspected this is a mycoparasite and not the anamorph of *Sebacina* sp., as had sometimes been thought, as they were unable to culture it. No taxonomic placement was given.

Foliocryphia Cheewangkoon & Crous (106)

Cheewangkoon et al. (2010) introduced this monotypic genus that clustered within *Cryphonectriaceae* based on phylogenetic analysis.

Fontanospora Dyko (107)

Two strains were included in molecular phylogenetic analysis and clustered in *Fontanospora* clade 1 in *Vasicosporium* clade 1 in *Helotiales* (Campbell et al. 2009).

Friedmanniomyces Onofri (108)

Schoch et al. (2009) showed that the two known species in this genus are anamorphic *Teratosphaeriaceae* in a phylogeny derived from five genes.

Fumagospora G. Arnaud (109)

Crous et al. (2009a) showed one species in this genus to be a member of *Capnodiaceae* in a phylogeny derived from partial LSU gene analysis.

Fusarium Link (110)

A new genus *Cyanonectria* was introduced to accommodate *Nectria cyanostoma* Sacc. & Flageolet which has a *Fusarium* anamorph (Samuels et al. 2009). The authors consider that *Fusarium* morphology in not monophyletic and state that "whether *Fusarium* is dismantled into newly revived and described genera, or whether they are referred to the corresponding teleomorph name, the genus name *Fusarium* in its current broad sense has limited phylogenetic significance". Schroers et al. (2009) discovered a new lineage of *Fusarium* comprising the *F. dimerum* group that

was not linked to any teleomorph but clustered in *Nectriaceae*.

Fusicladium Bonord. (111)

Seyran et al. (2010) showed that the teleomorph of *F. effusum* G. Winter was *Venturia inaequalis* (Cooke) G. Winter using analysis of the mitochondrial cytochrome b gene. Koukol (2010) also introduced three new species of this genus in the *Venturiaceae*.

Gabarnaudia Samson & W. Gams (112)

The relationship with *Sphaeronaemella* was confirmed by Jung et al. (2010).

Geosmithia Pitt (113)

The characters of this genus appear in several different genera of ambrosia fungi in different lineages in *Ophiostomatales* (*Raffaellea*, *Dryadomycyes*), *Micorascales* (*Ambrosiella*) and *Saccharomycetales* and appears to represent an optimal phenotype for this habit (Kolařík & Kirkendall 2010). The new species described in this paper represented new lineages in *Ascomycota*.

Gibellula Cavara (114)

Gibellula was linked to *Torrubiella* and was shown to be specific to spiders in a monophyletic clade (Johnson et al. 2009)

Gliomastix Guég. (115)

Lechat et al. (2010) described a new species of *Hydropisphaera* with a *Gliomastix* anamorphic state. No teleomorph had previously been linked to *Gliomastix* and the genus can now be accomodated in *Bionectriaceae*.

Globoconidiopsis G.F. Sepúlveda, Pereira-Carv. & Dianese (116)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of living leaves of *Brysonima*. No taxonomic placement was given.

Globoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese (117)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of living leaves of *Eriosema* No taxonomic placement was given.

Glomerulispora Abdel-Wahab, Abdel-Aziz & Nagahama (118)

Abdel-Wahab et al. (2010) introduced this genus for a marine hyphomycete from Egypt with helicospores, which differs from *Moheitospora* in smaller sized and larger number of conidial cells. The taxa clustered close to *Torpedospora* which may be the teleomorph in the clade named TBM and was included in the *Hypocreales incertae sedis* along with this genus.

Gnomoniopsis Berl. (119)

This status of this teleomorphic genus was reconfirmed and pycnidial anamorphs were confirmed in culture for some species (Walker et al. 2010). The pycnidia range from hyaline to cream, yellow or light brown, back and even pink and conidia ranged from oval to fusiform, globose, femur-shaped and lacked or had varying numbers of guttules. Unfortunately no illustrations were provided.

Goidanichiella G.L. Barron ex W. Gams (120)

Gams et al. (2009) validated this genus which had been wrongly typified. The taxonomic placement is unknown.

Graphiopsis Trail (121)

Crous et al. (2009a) showed one species in this genus to be a member of *Davidiellaceae* in a phylogeny derived partial LSU genes.

Graphium Corda (122)

Grobbelaar et al. (2009) confirmed this to be the anamorph of *Ophiostoma*, while Kolařík & Hulcr (2009) gave details of a *Graphium* sp., but did not formally describe it.

Halazoon Abdel-Aziz, Abdel-Wahab & Nagahama (123)

This genus was introduced for a marine hyphomycete genus from Egypt with brown helicoid conidia. Phylogenetic analysis showed it to form a well-supported monophyletic group along with *Cirrenalia fusca* I. Schmidt with two *Lulworthia* species in the *Lulworthiales*, *Lulworthiaceae* (Abdel-Wahab et al. 2010).

Halenospora E.B.G. Jones (124)

Jones et al. (2009a) introduced this new marine hyphomycete genus to accommodate a *Zalerion* species which grouped with *Glarea lozoyensis* Bills & Peláez in *Leotiaceae*.

Halosigmoidea Nakagiri, K.L. Pang & E.B.G. Jones (125)

Introduced by Jones et al. (2009b) to accommodate species of *Sigmoidea* with *Corollospora* teleomorphs.

Haradamyces Masuya, Kusunoki, Kosaka & Aikawa (126)

A new anamorphic genus was introduced for a *Myrioconium*-like taxon causing zonate leaf blight disease of *Cornus florida* in Japan (Masuya et al. 2009). Molecular analysis placed it in the *Sclerotiniaceae*, *Leotiomycetes*.

Helgardia Crous & W. Gams (127)

Nekoduka et al. (2010) found that two species of this genus clustered in *Helotiales* following ITS gene sequence analysis along with the teleomorph *Oculimacula*.

Helminthosporiomyces G.F. Sepúlveda, Pereira-Carv. & Dianese (128)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of living leaves of *Davilla*. No taxonomic placement was given.

Helminthosporium Link (129)

Suetrong et al. (2009) showed the generic type and one other species to be anamorphic *Massarinaceae* based on phylogenetic analyses of four genes.

Hendersonia Berk. (130)

Although *Hendersonia* is regarded as a synonym of *Stagonospora* it contains many species that are still accommodated in the genus and thus needs a thorough revision. Morin et al. (2010) described a new teleomorph genus *Austropleospora* with a *Hendersonia* anamorph which is *Camarosporium*-like and clustered in *Pleosporales* in molecular phylogenetic analysis.

Hirsutella Pat. (131)

Phylogenetic analysis confirmed this genus to be anamorphic *Ophiocordyceps* (Johnson et al. 2009). Johnson et al. (2009) also introduced a new ascomycetous genus *Orbiocrella* in *Clavicipitaceae* with a *Hirsutella*-like anamorph. The anamorph however is atypical of *Hirsutella* and did not cluster with other *Hirsutella* species. They concluded that the genus should have a narrow definition that is phylogenetically informative. The *Hirsutella*-like anamorph of *Moelleriella* was also confirmed (Tadych et al. 2009). Evans et al. (2010b) described two new species in this genus from the red ant and Zou et al. (2010) describe a single species and all were anamorphic *Ophiocordyceps* in *Ophiocordycipitaceae*.

Hormonema Lagerb. & Melin (132)

Talgø et al. (2010) reported that *Hormonema dematioides* Lagerb. & Melin is anamorphic *Sydowia polyspora* (Bref. & Tavel) E. Müll. (*Dothioraceae*) and is important in current season needle necrosis of *Abies* spp.

Hortaea Nishim. & Miyaji (133)

Crous et al. (2009a) confirmed one species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis.

Houjia G.Y. Sun & Crous (134)

Yang et al. (2010) describe two new species in this new hyphomycetous genus which they placed in *Capnodiales* based on phylogenetic analysis.

Hyalorhinocladiella H.P. Upadhyay & W.B. Kendr. (135)

Jacobs et al. (2010) confirmed this to be the anamorph of *Ophiostoma*.

Hydea K.L. Pang & E.B.G. Jones (136)

This genus was introduced to accommodate the hyphomycetous *Cirrenalia pygmea* Kohlm., which has brown helicoid conidia distinguished by its relatively large apical cell. The genus did not group with any other *Lulworthiales*, *Lulworthiaceae* forming a monophyletic clade (Abdel-Wahab et al. 2010).

Kirramyces J. Walker, B. Sutton & Pascoe (137)

Crous et al. (2009b) showed by analysis of LSU sequence data that four species clustered in Clade 4 of *Teratosphaeriaceae* with *Teratosphaeria sensu stricto*.

Kumanasamuha P.Rag. Rao & D. Rao (138)

A new anamorphic species was described for this genus by Nagao et al. (2009) and found to be an anamorph of the type of *Chorioactis* in *Chorioactidaceae*.

Lacazia Taborda, V.A. Taborda & McGinnis (139)

Vilela et al. (2009) showed that *Lacazia* is an anamorphic taxon that is distinct from *Paracoccidioides* in the *Ajellomycetaceae*.

Lasiodiplodia Ellis & Everh. (140)

Begoude (2010) studied *Botryosphaeriaceae* associated with *Terminalia catappa* and phylogenetic analysis confirmed placement of *Lasiodiplodia* in this family.

Lecanicillium W. Gams & Zare (141)

Johnson et al. (2009) confirmed by phylogenetic analysis that this is anamorphic *Cordyceps*. Sukarno et al. (2009) described three new species in the genus from Indonesia. They adopted this genus, even though it is paraphyletic, because it is a convenient genus for characterizing *Verticillium*-like species whose teleomorphs have not yet been discovered.

Lecanosticta Syd. (142)

Crous et al. (2009a,d) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Lemonniera De Wild. (143)

Shearer et al. (2009) showed one species in this genus to be anamorphic *Pleosporaceae* based on phylogenetic analyses of SSU and/or LSU genes.

Lecythophora Nannf. (144)

Damm et al. (2010) described two new species of the teleomorph genus *Coniochaeta* (*Coniochaetaceae*, *Coniochaetales*) with *Lecythophora* anamorphs from *Prunus* wood.

Lepisticola W. Gams (145)

This genus was introduced as a new name for the illegitimate name *Harziella* Costantin & Matr. 1899 by Gams et al. (2009). The taxonomic placement is unclear.

Leptodontidium de Hoog (146)

Nekoduka et al. (2010) found that one species of this genus clustered in *Helotiales* following ITS gene sequence analysis along with the teleomorph *Oculimacula*.

Leptographium Lagerb. & Melin (147)

Jacobs et al. (2010) confirmed this to be the anamorph of *Ophiostoma*. Harrington et al. (2010) provided a discussion of the merit of *Ophiostoma* species with *Leptographium* anamorphs being recognized as a separate genus, *Grosmannia*, concluding that the current phylogenetic analyses are ambiguous.

Leptoxyphium Speg. (148)

Schoch et al. (2009) and Crous et al. (2009a) showed one species in this genus to be a member of *Capnodiaceae* in a phylogeny derived from combined five gene or LSU gene analysis. Cheewangkoon et al. (2010) introduced a new species that clustered in *Capnodiales* in LSU gene analysis.

Mackenziella Yanna & K.D. Hyde (149)

This nom. nov. was introduced in Gams et al. (2009) to accommodate *Mackenziea* Yanna & K.D. Hyde 2002, which is a homonym of *Mackenziea* Nees 1847. The taxonomic placement is unclear.

Macrophomina Petr. (150)

Suetrong et al. (2009) showed the generic type to be anamorphic *Botryosphaeriaceae* based on phylogenetic analyses of four genes.

Manoharachariella Bagyan., N.K. Rao & Kunwar (151)

This new genus producing solitary, doliform, dictyospetate conidia was introduced from India by Bagyanarayana et al. (2009). The taxonomic placement is unclear although listed as *Dothideomycetes* in Index Fungorum.

Mariannaea G. Arnaud ex Samson (152)

Cai et al. (2010) described a new species of this genus confirming its affinity with *Nectriaceae*.

Matsusporium E.B.G. Jones & K.L. Pang (153)

This genus was introduced to accommodate the hyphomycetous *Cirrenalia tropicalis* Kohlm., which has brown helicoid conidia. The genus clustered adjacent to *Lulworthia grandispora* Meyers in the *Lulworthiales*, *Lulworthiaceae* (Abdel-Wahab et al. 2010).

Melanops Nitschke ex Fuckel (154)

Phillips & Alves (2009) epitypified this teleomorph genus which has *Fusicoccum*-like anamorphs and clusters in *Botryosphaeriaceae* in phylogenetic analysis.

Merimbla Pitt (155)

Peterson et al. (2010) described several species in *Hamigera* with *Merimbla* anamorphic states.

Metarhizium Sorokīn (156)

A new species of *Metacordyceps* (teleomorphic genus) with a *Metarhizium* anamorph was introduced by Li et al. (2010).

Microcyclospora Jana Frank, Schroers & Crous (157)

This new genus was introduced with three new species causing sooty blotch on fruit. Molecular phylogenetics analysis showed the genus to cluster in *Mycosphaerellaceae* (Frank et al. 2010).

Microcyclosporella Jana Frank, Schroers & Crous 2010* (158)

Frank et al. (2010) described this new monotypic *Pseudocercosporella*-like genus for species causing sooty blotch on apple which is accommodated in *Mycosphaerellaceae* according to molecular phylogenetic analysis.

Micronematobotrys Xiang Sun & L.D. Guo (159

Sun & Guo (2010) introduced this hyphomycete genus for an endophyte isolated from *Quercus* and *Ulmus* west of Beijing. This genus differed from other *Botrytis*-like genera in having micronematous conidiophores and coloured verrucose conidia. The phylogenetic position was determined by means of 18S and 28S rDNA sequence analysis and suggested that *Micronematobotrys* is a member of *Pyronemataceae*.

Microsphaeropsis Höhn. (160)

Aveskamp et al. (2010) showed the generic type to be anamorphic *Didymellaceae* following multigene phylogenetic analysis.

Microxiphium (Harv. ex Berk. & Desm.) Thüm. (161)

Schoch et al. (2009), Crous et al. (2009a) and Ruibal et al. (2009) showed species in this genus to be members of *Capnodiaceae* in a phylogeny derived from molecular analysis indicating that this genus is polyphyletic as it has already been linked to *Dennisiella* in *Coccodiniaceae*.

Milesia F.B. White (162)

Salazar-Yepes (2009) described a new species of *Phakopsora* with a *Milesia* anamorph.

Minimedusa Weresub & P.M. LeClair (163)

Cheewangkoon et al. (2009) introduced a new combination and phylogenetic analysis of the LSU gene showed it to cluster in *Cantharellales*.

Miuraea Hara 1948 (164)

Crous et al. (2009a) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Moheitospora Abdel-Wahab, Abdel-Aziz & Nagahama (165)

Abdel-Wahab et al. (2010) introduced this genus for a marine hyphomycete from Egypt with helicospores, which differed from *Cirrenalia* species in smaller conidial cells. The taxa clustered close to *Juncigena* in the clade named TBM and was included in the *Hypocreales incertae sedis* along with this genus. They also transferred *Cirrenalia adarca* Kohlm., Volkm.-Kohlm & O.E. Erikss. to *Moheitospora* establishing the link to *Juncigena adarca* Kohlm., Volkm.-Kohlm & O.E. Erikss.

Moleospora Abdel-Wahab, Abdel-Aziz & Nagahama (166)

This genus was introduced for a marine hyphomycete genus on *Phragmites* from Egypt with young brown helicoid conidia which eventually become a contorted mass of cells. Phylogenetic analysis showed it to form a well-supported monophyletic group in the *Lulworthiales*, *Lulworthiaceae* (Abdel-Wahab et al. 2010).

Monotosporella S. Hughes (167)

Zhang et al. (2009a) showed one species to be anamorphic *Melanommataceae* based on phylogenetic analyses of five genes.

Moromyces Abdel-Wahab, K.L. Pang, Nagahama, Abdel-Aziz & E.B.G. Jones (168)

Abdel-Wahab et al. (2010) introduced this genus to accommodate two *Cumulospora* species based on phylogenetic data. This helicosporous hyphomyceteus genus clustered basal to *Lulwoana uniseptata* and *Zalerion maritima* (Linder) Anastasiou in the *Lulworthiaceae*, *Lulworthiales*.

Mycelephas R.F. Castañeda (169)

Gams et al. (2009) introduced this hyphomycete genus as a nom. nov. for *Arnoldiella* R.F. Castañeda 1984. No teleomorph relationship is known.

Mycochaetophora Hara & Ogawa (170)

Nekoduka et al. (2010) recollected *M. gentianae* Tak. Kobay., Kasuyama & Nasu of this genus and found it to cluster in *Helotiales*.

Mycogelidium W.Y. Zhuang (171)

Kirschner & Oberwinkler (2009) showed this genus, which had been described as the sole member of a new family *Mycogelidiaceae*, *Atractiellales* in *Basidiomycota*, to be anamorphic *Capnodiales*, possibly *Capnodiaceae*.

Mycosphaerellaceae Lindau (172)

There are many more anamorphic genera listed in Kirk et al. (2008) than in Crous (2009) and this group needs revision.

Nawawia Marvanová (173)

Crous et al. (2009f) described a new species which clustered with *Chaetosphaeria* species in molecular phylogenetic analysis.

Natarajania Pratibha & Bhat (174)

Shenoy et al. (2010) found this genus to be related to *Diaporthales*.

Neofusicoccum Crous, Slippers & A.J.L. Phillips (175)

Begoude (2010) studied *Botryosphaeriaceae* associated with *Terminalia catappa* and phylogenetic analysis confirmed placement of *Neofusicoccum* in this family. They have *Botryosphaeria*-like teleomorphs (Taylor et al. 2009).

Neosetophoma Gruyter, Aveskamp & Verkley (176)

Gruyter et al. (2010) described this new genus which is close to *Phoma* section, but differ in morphology and molecular phylogeny. This is anamorphic *Phaeosphaeriaceae*. It differs in having yellowish conidia that are attenuate at one end and a *Stagnosporopsis* synanamorph.

Neottiosporina Subram. (177)

Zhang et al. (2009a) showed one species to be anamorphic *Massarinaceae* based on phylogenetic analyses of five genes.

Nodulisporium Preuss (178)

Platas et al. (2009) confirm that several species in this genus are anamorphic *Hypoxylon*.

***Nodulisporium*-like** (179)

Zare et al. (2010) described a new species of *Coniolariella* with a *Nodulisporium*-like anamorph.

Oidium Link (180)

Takamatsu et al. (2009) conifrmed this as anamorphic *Golovinomyces* and *Neoerysiphe*.

Paecilomyces Bainier (181)

Samson et al. (2009) confirmed the link between *Paecilomyces* and *Byssochlamys* based on analysis of three genes, *Byssochlamys* comprised nine species with five forming the teleomorph, while four are asexual

Paliphora Sivan. & B. Sutton (182)

Shenoy et al. (2010) found this to be anamorphic *Chaetosphaeriaceae*.

Paraconiothyrium Verkley (183)

Schoch et al. (2010) confirmed this as anamorphic *Montagnulaceae* following phylogenetic analysis.

Paraisaria Samson & B.L. Brady (184)

Evans et al. (2010b) described a new species in this genus from the red ant that were anamorphic *Ophiocordyceps* in *Ophiocordycipitaceae*.

Paraphoma Morgan-Jones & J.F. White (185)

Phoma section *Paraphoma*, *Pyrenochaeta* and *Pleurophoma* were studied by Gruyter et al. (2010) using SSU and LSU sequence data. *Phoma* section *Paraphoma* was highly polyphyletic and distantly related to *Phoma* section *Phoma*. *Phoma radicina* (McAlpine) Boerema, the type of *Phoma* section *Paraphoma* is anamorphic *Phaeosphaeriaceae*.

Parastenella J.C. David (186)

Kirschner & Chen (2010) describe a new species in this genus which clusters in *Mycosphaerellaceae* in phylogenetic analysis.

Passalora Fr. 1849 (187)

Crous et al. (2009a) showed twelve species to be members of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses and one unidentified species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis indicating the polyphyletic nature of this anamorphic form which is also anamorphic *Mycosphaerella* (*Mycosphaerellaceae*).

Penicillium Link (188)

Peterson & Horn (2009) introduced two new *Penicillium* species, which cluster amongst *Eupenicillium* species, indicating relationships of the anamorphs and teleomorphs of these genera. Peterson et al. (2010) combined a *Hamigera* with a *Talaromyces* species, listing a *Penicillium* anamorph.

Penidiella Crous & U. Braun (189)

Crous et al. (2009a,c,d) confirmed the generic type and five other species to be anamorphic *Teratosphaeriaceae* and one species to be a member of *Mycosphaerellaceae* based on partial LSU gene analysis indicating the polyphyletic nature of this anamorphic form.

Periconiella Sacc. (190)

Crous et al. (2009a) showed two species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis.

Pesotum J.L. Crane & Schokn. (191)

Grobbelaar et al. (2009) confirmed this to be the anamorph of *Ophiostoma*.

Petromyces Malloch & Cain (192)

Horn et al. (2009a) described the sexual state of *Aspergillus parasiticus* Speare as *Petromyces parasiticus* B.W. Horn, I. Carbone & Ramirez-Prado, and Horn et al. (2009b) described the sexual state of *A. flavus* Link. as *Petromyces flavus* B.W. Horn, I. Carbone & G.G. Moore.

Peyronellaea Gold. ex Togliani (193)

The section *Peyronellaea* was studied by Aveskamp et al. (2009) and phylogenetic results were unable to support the section as a taxonomic entity. The section is typified by the production of dictyochlamydospores but this feature has developed or was lost many times during the evolution of *Phoma*. Likely teleomorphs were *Didymella* (*Didymellaceae*), *Leptosphaeria* (*Leptosphaeriaceae*), while another group had no associated teleomorphs in *Pleosporales*. Aveskamp et al. (2010) however, reinstated the genus when they used a multigene phylogenetic analysis to test the relationship of a large number of *Phoma* taxa.

Peyronelina P.J. Fisher, J. Webster & D.F. Kane (194)

A species of *Peyronelina* grew in association with a *Flagelloscypha*-like basidiomycete on decayed wood near a stream (Yamaguchi et al. 2009). Phylogenetic analysis based on partial LSU sequences showed it to cluster in the *Flagelloscypha* clade, nested within the *Nia* clade of *Hymenomycetes*.

Phacellium Bonord. (195)

Crous et al. (2009a) confirmed one species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis indicating

the polyphyletic nature of this anamorphic form, which is also thought to be anamorphic *Mycosphaerella* (*Mycosphaerellaceae*).

Phaeobotryon Theiss. & Syd. (196)

This genus was reinstated by Phillips et al. (2008) and comprises four species. Abdollahzadeh et al. (2009) described a further species for the genus and showed two species to be anamorphic *Botryosphaeriaceae* based on molecular sequence analysis.

Phaeocandelabrum R.F. Castañeda, Heredia, Saikawa (197)

This new genus with complex brown conidia was introduced by Castañeda Ruiz et al. (2009b) with three species. No teleomorph relationship is known.

Phaeomoniella Crous & W. Gams (198)

Damm et al. (2010) describe four new species in this genus. Rossman et al. (2010) showed the generic type belongs in a novel lineage of *Chaetothyriomycetidae*, *Eurotiomycetes* using combined phylogenetic analysis of four genes.

Phaeophleospora Rangel (199)

Crous et al. (2009a,d) showed four species in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis and Crous et al. (2009b) also showed one *Phaeomoniella*–like species to cluster in Clade of *Teratosphaeriaceae*.

Phaeosclera Sigler, Tsuneda & J.W. Carmich. (200)

Ruibal et al. (2009) showed the generic type inhabiting rocks is anamorphic *Myriangiales*.

Phloeospora Wallr. (201)

Crous et al. (2009a) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Phaeothecoidea Crous (202)

Crous et al. (2009a,d) confirmed the generic type and two species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis. It is not clear if some species are anamorphic *Mycosphaerella* (*Mycosphaerellaceae*) as previously recorded.

Phaeothecoidiella Batzer & Crous (203)

Yang et al. (2010) described two new species in this new anamorphic genus which they placed in *Dothideomycetes* following phylogenetic analysis.

Phialocephala W.B. Kendr. (204)

Grünig et al. (2009) analyzed sequence data from several species in this genus and found them to be scattered in the *Helotiales*. One example was the anamorph of their newly introduced *Phaeomollisia*, while others clustered near *Loramyces*, *Mollisia* and *Vibrissea* species indicating the polyphyletic nature of this genus. Wang et al. (2009) also described a new species of this genus in the *Helotiales*.

Phialophora-like, anamorphic *Neobulgaria* Petr. 1921 (205)

Johnston et al. (2010) described a new species of *Neobulgaria* which stains vascular tissues of kiwifruit and has a *Phialophora*-like anamorph.

Phialophorophoma Linder 1944 (206)

Aveskamp et al. (2010) showed one species (*P. littoralis*) to be related to *Cucurbitariaceae* following phylogenetic analysis.

Phoma Sacc. (207)

Aveskamp et al. (2010) used a multigene phylogenetic analysis to test the relationship of a large number of *Phoma* taxa. *Phoma* species clustered in six distinct clades in *Pleosporales* and was highly polyphyletic. Most species including the generic type clustered in *Didymellaceae*. Two species of *Phoma* clustered in *Sporormiaceae* (Aveskamp et al. 2010) and their status as *Phoma* species should be reconsidered; similarly two species clustered in *Cucurbitariaceae*. In the same study, six species of *Phoma* were retrieved in *Phaeosphaeriaceae*, eleven in the *Leptosphaeriaceae/Pleosporaceae* clade and seven in the *Didymellaceae* clade, the latter incorporating the generic type of *Phoma*.

Phragmoconidium G.F. Sepúlveda, Pereira-Carv. & Dianese (208)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of *Emotum*. No taxonomic placement was given.

Physopella Arthur (209)

Salazar-Yepes & Carvalho (2009) described a new species of *Cerotelium* with a *Physopella* anamorph.

Pilidiella Petr. & Syd. (210)

Cheewangkoon et al. (2010) confirmed two species in this genus to be *Schizoparmaceae*.

Plenodomus Preuss (211)

Boehm et al. (2009b) mentioned the connection of this genus with the teleomorph genus *Psiloglonium*.

Pleurophoma Höhn. (212)

Aveskamp et al. (2010) showed one species to be related to *Cucurbitariaceae* following phylogenetic analysis.

Polyschema H.P. Upadhyay (213)

Shenoy et al. (2010) found the generic type and three other taxa species to represent a monophyletic lineage in *Pleosporales*.

Polythrincium Kunze (214)

Crous et al. (2009a,d) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis, while Simon et al. (2009) confirmed *P. trifollii* to be the anamorph of *Cymadothea*.

Prosthemium Kunze (215)

The phylogenetic placement of several species in this genus was investigated and found to be anamorphic *Pleomassaria* lying basal, but within *Melanommataceae* (Tanaka et al. 2010).

Pseudocercospora Speg. (216)

Crous et al. (2009a,d) showed 27 taxa in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Pseudocercosporella Deighton (217)

Crous et al. (2009a) showed three taxa in this genus to be members of *Mycosphaerellaceae* and one species to be anamorphic *Teratosphaeriaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses indicating the possible polyphyletic nature of this anamorphic form which is also anamorphic *Mycosphaerella* (*Mycosphaerellaceae*). Frank et al. (2010) introduced an epitype for the genus.

Pseudoplagiostoma Cheewangkoon, M.J. Wingf. & Crous (218)

Cheewangkoon et al. (2010) introduced this teleomorph genus to accommodate the generic type *Cryptosporiopsis eucalypti* Sankaran & B. Sutton and two other species, which was accommodated in the new family *Pseudoplagiostomaceae* (*Diaporthales*). The teleomorph was only known in the generic type.

Pseudoramichloridium Cheewangkoon & Crous (219)

Cheewangkoon et al. (2009) introduced this new genus with two new species. The genus resembles *Ramichloridium* and is placed in *Teratosphaeriaceae* following phylogenetic analysis.

Pseudorobillarda M. Morelet (220)

Suetrong et al. (2009) showed the generic type and two other species to be anamorphic *Dothideomycetes* based on phylogenetic analyses of four genes.

Pseudotaeniolina J.L. Crane & Schokn. (221)

Crous et al. (2009a) confirmed the one species to be anamorphic *Teratosphaeriaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Pseudotetraploa Kaz. Tanaka & K. Hirayama (222)

Tanaka et al. (2009) introduced this new anamorphic genus in *Tetraplosphaeriaceae* based on SSU and LSU combined sequence analyses with three new species. No teleomorph is known.

Pyrenochaeta De Not. 1849 (223)

Gruyter et al. (2010) confirmed that several species in this genus are anamorphic *Cucurbitariaceae*. *Herpotrichia parasitica*, which is known to have a *Pyrenochaeta* anamorph clustered basally in *Cucurbitariaceae*.

Pyrenochaetopsis Gruyter, Aveskamp & Verkley (224)

Gruyter et al. (2010) described this new genus to accommodate several species formerly accommodated in *Pyrenochaeta* and *Phoma*. The genus is close to *Pyrenochaeta* and belongs in *Cucurbitariaceae*. It is distinguished by setose pycnidia as in *Pyrenochaeta* but has *Phoma*-like conidiogenous cells.

Quadricrura Kaz. Tanaka, K. Hirayama & Sat. Hatak. (225)

Tanaka et al. (2009) introduced this new anamorphic genus in *Tetraplosphaeriaceae* based on SSU and LSU combined sequence analyses with three new species. No teleomorph is known.

Rachicladosporium Crous, U. Braun & C.F. Hill (226)

Crous et al. (2009a) described a new species in this genus and showed two species to be members of *Davidiellaceae* in a phylogeny derived from partial LSU genes.

Racodium Pers. (227)

Ruibal et al. (2009) showed the one species is anamorphic *Capnodiales*.

Raffaelea Arx & Hennebert (228)

Kolařik & Hulcr (2009) described a new species in the genus, which lies within the *Ophiostomataceae* and is closest to an *Ambrosiella* sp., while Massoumi Alamouti et al. (2009) showed this is anamorphic *Grosmannia*. Harrington et al. (2010) regarded *Raffaelea* as the proper asexual genus for cycloheximide-tolerant symbionts of ambrosia beetles with *Ophiostoma* teleomorphs.

Ramichloridium Stahel ex de Hoog (229)

Crous et al. (2009a,d) confirmed five taxa in this genus to be members of *Mycosphaerellaceae*, four species to be anamorphic *Dissoconiaceae* and one species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis indicating the polyphyletic nature of this anamorphic form.

***Ramichloridium*-like** (230)

Réblová & Štěpánek (2009) introduced a new genus *Tectonidula* (*Sordariomycetes*, genera *incertae sedis*) with *Ramichloridium*-like and *Sporothrix*-like anamorphs.

Ramoacrodictys G.Z. Zhao (231)

This new genus was introduced to accommodate a species previously described in *Acrodictys* (Zhao et al. 2009). No familial placement was given.

Ramophialophora M. Calduch, Stchigel, Gené & Guarro (232)

Madrid et al. (2010a) described a new species in this genus, which occurs in *Sordariales* and possibly *Lasiosphaeriaceae*. They also discussed the placement of *Cladorrhinum*.

Ramularia Unger (233)

Kirschner (2009) showed species in this genus to cluster in *Mycosphaerellaceae*. Crous et al. (2009a) showed six taxa in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis.

Ramulispora Miura (234)

Crous et al. (2009a,d) showed one species in this genus to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Rattania Prabhugaonkar & Bhat (235)

This new sporodochial hyphomycete was described to accommodate an endophytic hyphomycete from *Calamus* in India (Prabhugaonkar & Bhat 2009). Shenoy et al. (2010) found this to be anamorphic *Chaetosphaeriales*.

Readeriella Syd. & P. Syd. (236)

Crous et al. (2009a,d) confirmed 16 species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis, while Crous et al. (2009b) showed three strains of the generic type and one other species to sit in Clade 1 of *Teratosphaeriaceae*.

Repetoblastiella R.F. Castañeda, Minter & M. Stadler (237)

Castañeda Ruiz et al. (2010d) introduced this new monotypic hyphomycete genus from Mexico. No teleomorph relationship is known.

Repetophragma Subram. (238)

Suetrong et al. (2009) showed one species to be anamorphic *Pleosporales* based on phylogenetic analyses of four genes.

***Rhabdospora*-like (239)**

Rossman et al. (2010) redescribe a species in the teleomorph genus *Dolabra* which had been given the invalid anamorph name, *Rhabdospora nepheliae*. Combined phylogenetic analysis of four genes showed it to belong in a novel lineage of *Eurotiomycetes*.

Rhexocercosporidium U. Braun (240)

Nekoduka et al. (2010) found that the generic type and one species of this genus clustered in *Helotiales* following ITS gene sequence analysis.

Rhodoveronaea Arzanlou, W. Gams & Crous (241)

Réblová (2009) found the teleomorph of this genus and phylogenetic analysis showed in to be in *Sordariomycetidae* and not *Annulatascaceae*.

Rhynchosporium Heinsen ex A.B. Frank (242)

Nekoduka et al. (2010) found that two species of this genus clustered in *Helotiales* following ITS gene sequence analysis.

Rhytisma Fr. (243)

Three new species of this teleomorph genus were described by Suto (2009) and all species produced minute conidia in conidiomata. These, however, never germinated in repeated experiments and were regarded as spermogonia and spermatia.

Rostrohypoxylon J. Fourn. & M. Stadler (244)

The genus of *Xylariaceae* was described with *Virgariella*-like *and Sporothrix*-like anamorphs (Fournier et al. 2010a).

Ruwenzoria J. Fornier, M. Stadler, Læssøe & C. Decock (245)

The genus of *Xylariaceae* was described with *Nodulosporium*-like and *Sporothrix*-like anamorphs (Stadler et al. 2010).

Sarcinomyces Lindner (246)

Ruibal et al. (2009) showed the generic type inhabiting rocks is anamorphic *Myriangiales*.

Scedosporium Sacc. ex Castell. & Chalm. (247)

The link with *Pseudallescheria* was confirmed by Rainer & Kaltseis (2010) when describing three new species.

Sclerostagonospora Höhn. (248)

Possibly anamorphic *Didymosphaerella* Cooke (*Montagnulaceae*) but link shown by occurrence with the teleomorph and not proven (Chlebicki 2009).

Sclerotium Tode (249)

Xu et al. (2010) assessed the phylogenetic placement of eight *Sclerotium* taxa. Two species previously thought to be *Basidiomycota* clustered with *Ascomycota* and had affinities with the teleomorph genera *Sclerotinia* and *Stromatinia* along with a third *Sclerotium* species already known to be *Ascomycota*. The other *Sclerotium* species were placed in *Basidiomycota* and clustered with *Athelia* (3 taxa) or *Ceratobasidium* (2 species); the latter two species were transferred to *Ceratorhiza* which is the known anamorph of *Ceratobasidium* species.

Scytalidium Pesante (250)

Kang et al. (2010) described two species in this genus as anamorphic *Xylogone*, which clustered with the generic type in a distinct clade in *Leotiomycetes*.

Setophoma Gruyter, Aveskamp & Verkley (251)

Gruyter et al. (2010) described this new genus, which is close to *Phoma* section *Paraphoma*, but differs in morphology and molecular phylogeny. The genus lies in *Phaeosphaeriaceae*.

Septoria Sacc. (252)

A new species of the teleomorphic genus *Mycosphaerella* was described by Lima et al. (2009) with a *Septoria* anamorph. Crous et al.

(2009a,d) showed seven taxa in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Septoidium G. Arnaud (253)

Chaverri & Gazis (2010) described a new species of *Perisporiopsis* with *Septoidium* macro- and microconidial anamorphs.

Septonema Corda (254)

Boehm et al. (2009a) described a new teleomorphic genus *Oedohysterium* with *Septonema* anamorphs.

Septosporiopsis W.A. Baker & Morgan-Jones (255)

Gams et al. (2009) introduced this new hyphomycete genus to accommodate a species of *Acrodictys* which differs from other genera in the *Acrodictys* complex. No teleomorph relationship is known.

Simplicillium W. Gams & Zare (256)

Two species from this genus were the first diverging lineages of *Corycipitaceae* (Johnson et al. 2009) but their occurrence as hyperparasites of *Torrubiella* and not anamorphs cannot be dismissed.

Sirodesmium De Not. (257)

Ruibal et al. (2009) showed one species inhabiting rocks is anamorphic *Pleosporales*.

Sonderhenia H.J. Swart & J. Walker (258)

Crous et al. (2009a,d) showed two taxa in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis.

Spadicoides S. Hughes (259)

Shenoy et al. (2010) found the generic type to be associated with *Porosphaerella* species as sister taxa to the *Coniochaetales* and not in *Helminthosphaeriaceae*. Two other species also clustered in *Sordariomycetes incertae sedis*, while a fourth species clustered in *Pleosporales* indicating the polyphyletic nature of the genus.

Sphaerodes Clem. (260)

This teleomorphic genus was reported to produce ampulliform phialides on irregularly branched conidiophores directly on ascomata or on surrounding hyphae (Vujanovic & Goh 2009)

Sporidesmajora Batzer & Crous (261)

Yang et al. (2010) described this monotypic new hyphomycete genus which they place in *Capnodiales* based on phylogenetic analysis.

Sporidesmium Link (262)

Crous et al. (2009a) confirmed one species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis indicating the polyphyletic nature of this anamorphic form which is also anamorphic *Mycosphaerella* (*Mycosphaerellaceae*). Boehm et al. (2009a) mentioned the link with the teleomorph *Psiloglonium* Höhn. 1918

Sporothrix Hektoen & C.F. Perkins (263)

Grobbelaar et al. (2009) confirmed this to be the anamorph of *Ophiostoma*. Zanzot et al. (2010) and Madrid et al. (2010b) also described a new species of *Ophiostoma* with *Sporothrix* anamorphs.

***Sporothrix*-like** (264)

Réblová & Štěpánek (2009) introduced a new genus *Tectonidula* (*Sordariomycetes*, genera *incertae sedis*) with *Ramichloridium*-like and *Sporothrix*-like anamorphs.

Stagonospora (Sacc.) Sacc. (265)

Zhang et al. (2009a) showed one species to be anamorphic *Lentitheciaceae* based on phylogenetic analyses of five genes, indicating the polyphyletic nature, while Aveskamp et al. (2010) showed one species to be anamorphic *Phaeosphaeriaceae*.

Stagonosporopsis Died. (266)

Aveskamp et al. (2010) emended this genus with 19 species and two varieties and showed it to belong in *Didymellaceae* following multigene phylogenetic analysis.

Staninwardia B. Sutton (267)

Crous et al. (2009a,d) confirmed one species to be anamorphic *Teratosphaeriaceae*

based on partial LSU gene analysis indicating the probable polyphyletic nature of this anamorphic form which is also anamorphic *Chaetothyriales*.

Stemphylium Wallr. (268)

The teleomorphs of this genus where known are anamorphic *Pleospora* and this was confirmed by Inderbitzin et al. (2009).

Stenella Syd. (269)

Crous et al. (2009a,d) confirmed one species to be anamorphic *Teratosphaeriaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses indicating the polyphyletic nature of this anamorphic form which is also anamorphic *Mycosphaerella* (*Mycosphaerellaceae*).

Stigmina Sacc. (270)

Crous et al. (2009a) showed a *Stigmina* synanamoprh to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Strelitziana Arzanlou & Crous (271)

Zhang et al. (2009c) introduced a new species in this genus as anamorphic *Chaetothyriales* with no teleomorph connection.

Symphyosira Preuss (272)

See entry under *Symphyosirella* Seifert.

Symphyosirella Seifert (273)

This genus was proposed by Gams et al. (2009) to solve the problem of the missing type of *Symphyosira* Preuss 1853 and was introduced to accommodate two relatively well understood *Symphyosira* species, which are obligate parasites of seeds and have *Symphyosirina* teleomorphs, but not the type *S. lutea* Preuss that is excluded.

Synnemacrodictys W.A. Baker & Morgan-Jones (274)

Gams et al. (2009) introduced this new hyphomycete genus to accommodate a species of *Acrodictys* which differed from other genera in the *Acrodictys* complex in having synnematous conidiomata and lack of percurrent proliferation of the conidiogenous cells. No teleomorph relationship is known.

Taeniolella S. Hughes (275)

Shearer et al. (2009) showed one species in this genus to be anamorphic *Lindgomycetaceae* based on phylogenetic analyses of SSU and/or LSU genes.

Taifanglania Z.Q. Liang, Y.F. Han, H.L. Chu & R.T.V. Fox (276)

This genus was introduced by Liang et al. (2009b) for *Paecilomyces*–like species in *Chaetomiaceae* based in ITS and SSU gene sequence data analysis.

Teratosphaeria Syd. & P. Syd. (277)

Crous et al. (2009b) introduced several species in this teleomorphic genus where the sexual characters are unknown and the species is only known by its anamorphic characters but were linked to *Teratosphaeria* by molecular data. They synonymised taxa previously accommodated in the anamorphic genera *Colletogloeopsis*, *Coniothyrium*, *Kirramyces* and *Readeriella*.

Tetraploa Berk. & Broome (278)

Tanaka et al. (2009) introduced the new teleomorph genus *Tetraplosphaeria* (*Tetraplosphaeriaceae*) to accommodate this genus which has four setose appendages, including the generic type, which was supported by SSU and LSU combined sequence analyses. A similar anamorph with only three setose appendages was found in *Triplosphaeria*, while in *Polyplosphaeria* the *Tetraploa*-like conidia had three to eight setose appendages.

Thedgonia B. Sutton (279)

Crous et al. (2009e) and Nekoduka et al. (2010) found that the generic type of this genus clustered in *Helotiales* following LSU and ITS gene sequence analysis.

***Thedgonia*-like (280)**

Crous et al. (2009a) showed this taxon to be a member of *Mycosphaerellaceae* in a phylogeny derived from SSU, 5.8S rDNA and LSU analyses.

Torula Pers. (281)

Zhang et al. (2009a) showed one species to be anamorphic *Massariaceae* based on phylogenetic analyses of five genes.

Toxicocladosporium Crous & U. Braun (282)

Crous et al. (2009a,c) showed the generic type plus five species in this genus to be members of *Davidiellaceae* in a phylogeny derived from partial LSU genes.

Tricladium Ingold 1942 (283)

Campbell et al. (2009) studied 16 species of this genus and molecular phylogenetic analysis showed it to be polyphyletic with species clustering in distinct five clades with the generic type, *Tricladium splendens* Ingold, clustering in clade 1 of the *Helotiales*. Other species clustered in clades 2-4 of *Helotiales* while *T. caudatum* Kuzuha clustered in *Rhytismatales*.

Trichothecium-like (284)

Doveri et al. (2010) described the teleomorph *Rodentomyces* with a *Trichothecium*-like anamorph.

Trichomatoclava G.F. Sepúlveda, Pereira-Carv. & Dianese (285)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of *Parinari*. No taxonomic placement was given.

Trichomatosphaera Pereira-Carv., G.F. Sepúlveda & Dianese (286)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species. No taxonomic placement was given.

Tripospermum Speg. (287)

Crous et al. (2009a) confirmed one species to be anamorphic *Teratosphaeriaceae* based on partial LSU gene analysis indicating the probable polyphyletic nature of this anamorphic form which is also thought to be anamorphic *Capnodiaceae*.

Trochophora R.T. Moore (288)

Crous et al. (2009e) positioned this genus in *Mycosphaerellaceae* following analysis of LSU gene sequences.

Troposporella P. Karst. (289)

The genus is reinstated with two species and found to be occur in a basal clade of *Dothideomycetes* (Tsui & Berbee 2010).

Tulipispora Révay & Gönczöl (290)

Révay et al. (2009) described this genus from submerged, decaying wood. Conidia superficially resemble those of *Triscelophorus* and *Triramulispora* species, but the taxon differs somewhat in the conidial morphology and especially in the ontogeny.

Ulocladium Preuss 1851 (291)

Runa et al. (2009) found that ten *Ulocladium* species clustered in a core *Ulocladium* clade with all taxa possessing the key diagnostic feature of obovoid conidia. *A. cheiranthi* (Lib.) P.C. Bolle and *E. indefessa* E.G. Simmons, which did not have this feature, also clustered in this group. The status of the genus as an independent lineage basal to the core *Alternaria* clade was strongly supported. Two *Ulocladium* species clustered in a sister clade to the core *Ulocladium* indicating some members of the genus are polyphyletic. No teleomorph genera were used in their analysis but the taxa can be placed in the *Pleosporaceae* with *Alternaria*.

Varicosporina Meyers & Kohlm. (292)

A new teleomorph species *Corollospora anglusa* Abdel-Wahab & Nagahama was described by Abdel-Wahab et al. (2009) and was linked to the anamorph state *Varicosporina* which was also described as a new species *V. anglusa* Abdel-Wahab & Nagahama.

Varicosporium W. Kegel (293)

Phylogenetic analysis showed this genus was polyphyletic and clustered in three distinct clades in *Helotiales* (Campbell et al. 2009). The generic type, *V. elodeae* W. Kegel, clustered in *Varicosporium* clade 1 which included one *Hymenoscyphus* species.

Variocladium Descals & Marvanová (294)

Phylogenetic analysis showed this genus clustered in *Helotiales* (Campbell et al. 2009).

Veramycella G. Delgado (295)

This new genus was introduced for a taxon from dead palm leaves possessing a

unique combination of features (Delgado 2009). The conidia are distinctive in having 3-distoseptate, subhyaline to pale olivaceous, polymorphic conidia formed by polyblastic, sympodial conidiogenesis. The placement of the genus is unknown.

Verrucisporota D.E. Shaw & Alcorn (296)

Crous et al. (2009a,d) showed a possible strain of the generic type and one other taxon in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis.

Virgariella-like (297)

Fournier et al. (2010b) described a new *Hypoxylon* species from Northern Ireland with a *Virgariella*-like anamorph.

Vermiculariopsiella Bender (298)

Dhargalkar & Bhat (2009) described a new species of the teleomorphic genus *Echinosphaeria* with a *Vermiculariopsiella* anamorph.

Verrucocladosporium K. Schub., Aptroot & Crous (299)

Crous et al. (2009a) showed one species in this genus to be a member of *Davidiellaceae* in a phylogeny derived from partial LSU genes.

Verrucostoma Hirooka, Tak. Kobay. & Chaverri (300)

This new teleomorphic genus was introduced by Hirooka et al. (2010) and had an *Acremonium*-like anamorph. They also discussed several anamorphic genera in the *Bionectriaceae* and *Nectriceae*.

Vesiculohyphomyces Armando, Pereira-Carv. & Dianese (301)

This new genus was introduced by Pereira-Carvalho et al. (2009) to accommodate a Brazilian hyphomycetous species growing on trichomes of *Caryocar*. No taxonomic placement was given.

Vonarxia Bat. (302)

Crous et al. (2009e) showed one species in this genus to be anamorphic *Chaetothyriaceae* based on LSU gene data analysis.

Xenostigmina Crous (303)

Crous et al. (2009e) showed this genus to belong in *Dothideomycetes incertae sedis* and not *Mycosphaerellaceae* in LSU gene sequence analysis.

Xylomyces Goos, R.D. Brooks & Lamore (304)

Shearer et al. (2009) conducted molecular sequence-based phylogenetic analyses using nuclear ribosomal sequences (SSU and/or LSU) and showed this to be anamorphic *Aliquandostipitaceae*, which comprise only freshwater species.

Zalerion R.T. Moore & Meyers (305)

Zalerion maritima (Linder) Anastasiou 1963 clustered in *Lulworthiales*, *Lulworthiaceae* with relatively weak support (Abdel-Wahab et al. 2010).

Zasmidium Fr. (306)

Crous et al. (2009a) showed five taxa in this genus to be members of *Mycosphaerellaceae* in a phylogeny derived from partial LSU gene analysis.

Zygophiala E.W. Mason (307)

Crous et al. (2009a,d) confirmed two species to be anamorphic *Schizothyrium* (*Schizothyriaceae*) based on partial LSU gene analysis. Ma et al. (2010) also confirmed this genus to be anamorphic *Schizothyrium*.

References

Abdel-Wahab MA, Nagahama T, Abdel-Aziz FA. 2009 – Two new *Corollospora* species and one new anamorph based on morphological and molecular data Mycoscience 50, 147–155.

Abdel-Wahab MA, Pang KL, Nagahama T, Abdel-Aziz FA, Jones EBG. 2010 – Phylogenetic evaluation of anamorphic species of *Cirrenalia* and *Cumulospora* with the description of eight new genera and four new species Mycological Progress 9, 537–558.

Abdollahzadeh J, Mohammadi GE, Javadi A, Shams-bakhsh M, Zare R, Phillips AJL. 2009 – *Barriopsis iraniana* and *Phaeobotryon cupressi*: two new species of the *Botryosphaeriaceae* from trees in Iran. Persoonia 23, 1–8.

Anonymous. 2009–2010. Index of Fungi 7.

Aveskamp MM, Gruyter JD, Woudenberg JHC, Verkley GJM, Crous PW. 2010 – Highlights of the *Didymellaceae*: A polyphasic approach to characterise *Phoma* and related pleosporalean genera. Studies in Mycology 65, 1–60.

Aveskamp MM, Verklet GJM, Gruyter JD, Murace MA, Perello A, Woudenberg JHC, Groenewald JZ, Crous PW. 2009 – DNA phylogeny reveals polyphyly of *Phoma* section *Peyronellaea* and multiple taxonomic novelties. Mycologia 101, 363–382.

Bagyanarayana G, Rao NK, Kunwar IK. 2009 – *Manoharachariella*, a new dematiaceous hyphomycetous genus from India Mycotaxon 109, 301–305.

Begoude BAD, Slippers B, Wingfield MJ, Roux J. 2010 – Botryosphaeriaceae associated with *Terminalia catappa* in Cameroon, South Africa and Madagascar. Mycological Progress 9, 101–123.

Boehm EWA, Mugambi GK, Miller AN, Huhndorf SM, Marincowitz S, Spatafora JW, Schoch CL. 2009a – A molecular phylogenetic reappraisal of the Hysteriaceae, Mytilinidiaceae and Gloniaceae (Pleosporomycetidae, Dothideomycetes) with keys to world species. Studies in Mycology 64, 49–83.

Boehm EWA, Schoch CL, Spatafora JW. 2009b – On the evolution of the Hysteriaceae and Mytilinidiaceae (Pleosporomycetidae, Dothideomycetes, Ascomycota) using four nuclear genes. Mycological research 113, 461–479.

Bogale M, Orr MJ, O'Hara MJ, Untereiner WA. 2010 – Systematics of *Catenulifera* (anamorphic Hyaloscyphaceae) with an assessment of the phylogenetic position of *Phialophora hyalina*. Fungal Biology 114, 396–409.

Cai L, Hyde KD, Taylor PWJ, Weir BS, Waller JM, Abang MM, Zhang JZ, Yang YL, Phoulivong S, Liu ZY, Prihastuti H, Shivas RG, McKenzie EHC, Johnston PR. 2009b – A polyphasic approach for studying *Colletotrichum*. Fungal Diversity 39, 183–204.

Cai L, Kurniawati E, Hyde KD. 2010 – Morphological and molecular characterization of *Mariannaea aquaticola* sp. nov. collected from freshwater habitats. Mycological Progress 9, 337–343.

Cai L, Wu WP, Hyde KD. 2009a – Phylogenetic relationships of *Chalara* and allied species inferred from ribosomal DNA sequences. Mycological Progress 8, 133–143.

Campbell J, Marvanova L, Gulis V. 2009 – Evolutionary relationships between aquatic anamorphs and teleomorphs: *Tricladium* and *Varicosporium*. Mycological Research 113, 1322–1334.

Carvalho AA, Hennen JF. 2010 – New species and nomenclature in *Prospodium* (Uropyxidaceae, Pucciniales) and the new anamorphic genus *Canasta* in the Neotropics. Mycologia 102, 1096–1113.

Castañeda Ruiz RF, Abarca GH, Mota RMA, Stadler M, Saikawa M, Minter DW. 2010a – *Anaselenosporella sylvatica* gen. & sp. nov. and *Pseudoacrodictys aquatica* sp. nov., two new anamorphic fungi from Mexico. Mycotaxon 112, 65–74.

Castañeda Ruiz RF, Abarca GH, Mota RMA, Becerra CI, Saikawa M, Minter DW, Stadler M. 2010b – *Elotespora*, an enigmatic anamorphic fungus from Tabasco, Mexico. Mycotaxon 111, 197–203.

Castañeda Ruiz RF, Minter DW, Stadler M, Gené J, Guarro J, Cano J. 2010d – Two new anamorphic fungi from Cuba: *Endophragmiella profusa* sp. nov. and *Repetoblastiella olivacea* gen. & sp. nov. Mycotaxon 113, 415–422.

Castañeda Ruiz RF, Morillo O, Tovar B, Hernández Z, Iturriaga T, Minter DW, Gené J, Guarro J, Stadler M. 2010c – *Endogenospora*, a new genus of anamorphic fungi from Venezuela. Mycotaxon 112, 75–82.

Chalkley DB, Suh SO, Volkmann-Kohlmeyer B, Kohlmeyer J, Zhou JJ. 2010 – *Diatrypasimilis australiensis*, a novel xylarialean fungus from mangrove. Mycologia 102, 430–437.

Chaverri P, Gazis RO. 2010 – *Perisporiopsis lateritia*, a new species on decaying leaves of *Hevea* spp. from the Amazon basin in Peru. Mycotaxon 113, 163–169.

Cheewangkoon R, Groenewald JZ, Summerell BA, Hyde KD, To-Anun C, Crous PW.

2009 – *Myrtaceae*, a cache of fungal biodiversity. Persoonia 23, 55–85.

Cheewangkoon R, Groenewald JZ, Verkley GJM, Hyde KD, Wingfield MJ, Gryzenhout M, Summerell BA, Denman S, Toanun C, Crous PW. 2010 – Re-evaluation of *Cryptosporiopsis eucalypti* and *Cryptosporiopsis*-like species occurring on *Eucalyptus* leaves. Fungal Diversity 44, 89–105.

Chilvers MI, Rogers JD, Dugan FM, Stewart JE, Chen WD, Peever TL. 2009 – *Didymella pisi* sp nov., the teleomorph of *Ascochyta pisi*. Mycological research 113, 391–400.

Chlebicki A. 2009 – Fungi on higher plants of the upper limit of the alpine zone: new species from Tian Shan. Mycotaxon 110, 443–450.

Chungu D, Gryzenhout M, Muimba-Kankolongo A, Wingfield MJ, Roux J. 2010 – Taxonomy and pathogenicity of two novel *Chrysoporthe* species from *Eucalyptus grandis* and *Syzygium guineense* in Zambia. Mycological Progress 9, 379–393.

Crous PW. 2009 – Taxonomy and phylogeny of the genus *Mycosphaerella* and its anamorphs. Fungal Diversity 38, 1–24.

Crous PW, Braun U, Wingfield MJ, Wood AR, Shin HD, Summerell BA, Alfenas AC, Cumagun CJR, Grohenewald JZ. 2009e – Phylogeny and taxonomy of obscure genera of microfungi. Persoonia 22, 139–161.

Crous PW, Groenewald JZ, Lee SS. 2009f – *Nawawia malaysiana* Crous & SS Lee, sp. nov. Persoonia 23, 194–195.

Crous PW, Groenewald JZ, Summerell BA, Wingfield BD, Wingfield MJ. 2009b – Co-occurring species of *Teratosphaeria* on *Eucalyptus*. Persoonia 22, 38–48.

Crous PW, Schoch CL, Hyde KD, Wood AR, Gueidan C, de Hoog GS, Groenewald JZ. 2009a – Phylogenetic lineages in the Capnodiales. Studies in Mycology 64, 17–47.

Crous PW, Summerell BA, Carnegie AJ, Wingfield MJ, Hunter GC, Burgess TI, Andjic V, Barber PA, Groenewald JZ. 2009d – Unravelling *Mycosphaerella*: do you believe in genera? Persoonia 23, 99–118.

Crous PW, Wingfield MJ, Groenewald JZ. 2009c – Niche sharing reflects a poorly understood biodiversity phenomenon. Persoonia 22, 83–94.

Damm U, Fourie PH, Crous PW. 2010 – Coniochaeta (Lecythophora), *Collophora* gen. nov. and *Phaeomoniella* species associated with wood necroses of *Prunus* trees. Persoonia 24, 60–80.

Damm U, Woudenberg JHC, Cannon PF, Crous PW. 2009 – *Colletotrichum* species with curved conidia from herbaceous hosts. Fungal Diversity 39, 45–87.

Delgado G. 2009. – South Florida microfungi: *Veramycella bispora*, a new palmicolous anamorphic genus and species, with some new records for the continental USA Mycotaxon 107, 357–373.

Devi TP. 2009 – *Fecundostilbum*, a new genus of Stilbellaceae. Indian Phytopathology 62, 64–68

Dhargalkar S, Bhat DJ. 2009 – *Echinosphaeria pteridis* sp. nov. and its *Vermiculariopsiella* anamorph. Mycotaxon 108, 115–122.

Doveri F, Pecchia S, Sarrocco S, Minnocci A, Vannacci G. 2010 – *Rodentomyces*, a new hypocrealean genus from Italy. Fungal Diversity 42, 57–69.

Erdoğdu M, Hüseyin E. 2009 – An anamorphic genus and species newly recorded from Turkey. Mycotaxon 109, 9–14.

Evans HC, Groden E, Bischoff JF. 2010b – New fungal pathogens of the red ant, *Myrmica rubra*, from the UK and implications for ant invasions in the USA. Fungal Biology 114, 451–466.

Evans HC, Johnston PR, Park D, Barreto RW, Soares DR. 2010a – *Claviradulomyces*, a new genus of Odontotremataceae from West African rainforest. Fungal Biology 114, 41–48.

Fotouhifar KB, Hedjaroude GA Leuchtmann A. 2010 – ITS rDNA phylogeny of Iranian strains of *Cytospora* and associated teleomorphs. Mycologia 102, 1369–1382.

Fournier J, Kopcke B, Stadler M. 2010b – New species of *Hypoxylon* from western

Europe and Ethiopia. Mycotaxon 113, 209–235.

Fournier J, Stadler M, Hyde KD, Duong ML. 2010a – The new genus *Rostrohypoxylon* and two new *Annulohypoxylon* species from Northern Thailand. Fungal Diversity 40, 23–36.

Frank J, Crous PW, Groenewald JZ, Oertel B, Hyde KD, Phengsintham P, Schroers HJ. 2010 – *Microcyclospora* and *Microcyclosporella*: novel genera accommodating epiphytic fungi causing sooty blotch on apple. Persoonia 24, 93–105.

Gams W, Seifert K, Morgan-Jones GA. 2009 – New and validated hyphomycete taxa to resolve nomenclatural and taxonomic issues. Mycotaxon 110, 89–108.

Grobbelaar JW, Aghayeva DN, de Beer ZW, Bloomer P, Wingfield MJ, Wingfield BD. 2009 – Delimitation of *Ophiostoma quercus* and its synonyms using multiple gene phylogenies. Mycological Progress 8, 221–236.

Grünig CR, Queloz V, Duo A, Sieber TN. 2009 – Phylogeny of *Phaeomollisia piceae* gen. sp nov.: a dark, septate, conifer-needle endophyte and its relationships to *Phialocephala* and *Acephala*. Mycological Research 113, 207–221.

Gruyter JD, Woudenberg JHC, Aveskamp MM, Verkley GJM, Groenewald JZ, Crous PW. 2010 – Systematic reappraisal of species in *Phoma* section *Paraphoma*, *Pyrenochaeta* and *Pleurophoma*. Mycologia 102, 1066–1081.

Harrington TC, Aghayeva DN – Fraedrich SW. 2010 – New combinations in *Raffaelea*, *Ambrosiella*, and *Hyalorhinocladiella*, and four new species from the redbay ambrosia beetle, *Xyleborus glabratus* Mycotaxon 111, 337–361.

Hirooka Y, Kobayashi T, Ono T, Rossman AY, Chaverri P. 2010 – *Verrucostoma*, a new genus in the Bionectriaceae from the Bonin Islands, Japan. Mycologia 102, 418–429.

Horn BW, Ramirez-Prado JH, Carbone I. 2009a – The sexual state of *Aspergillus parasiticus*. Mycologia 101, 275–280.

Horn BW, Moore GG, Carbone G. 2009b – Sexual reproduction in *Aspergillus flavus*. Mycologia 101, 423–429.

Huhndorf SM, Miller AN, Greif M, Samuels GJ. 2009 – *Amplistroma* gen. nov. and its relation to *Wallrothiella*, two genera with globose ascospores and acrodontium-like anamorphs. Mycologia 101, 904–919.

Hyde KD, Cai L, Cannon PF, Crouch JA, Crous PW, Damm U, Goodwin PH, Chen H, Johnston PR, Jones EBG, Liu ZY, McKenzie EHC, Moriwaki J, Noireung P, Pennycook SR, Pfenning LH, Prihastuti H, Sato T, Shivas RG, Tan YP, Taylor PWJ, Weir BS, Yang YL, Zhang JZ. 2009 – *Colletotrichum* - names in current use. Fungal Diversity 39, 147–182.

Inderbitzin P, Mehta YR, Berbee ML. 2009 – *Pleospora* species with *Stemphylium* anamorphs: a four locus phylogeny resolves new lineages yet does not distinguish among species in the *Pleospora herbarum* clade. Mycologia 101, 329–339.

Jacobs K, Krokene P, Solheim H, Wingfield MJ. 2010 – Two new species of *Leptographium* from *Dryocetes autographus* and *Hylastes cunicularius* in Norway. Mycological Progress 9, 69–78.

Jiang YL, Zhang TY. 2009 – Two new species of *Eladia* from soil. Mycotaxon 108, 127–130.

Johnson D, Sung GH, Hywel-Jones NL, Luangsa-Ard JJ, Bischoff JF, Kepler RM, Spatafora JW. 2009 – Systematics and evolution of the genus *Torrubiella* (Hypocyeales, Ascomycota). Mycological Research 113, 279–289.

Johnston PR, Park D, Manning MA. 2010 – *Neobulgaria alba* sp. nov. and its *Phialophora*-like anamorph in native forests and kiwifruit orchards in New Zealand. Mycotaxon 113, 385–396.

Jones EBG, Sakayaroj J, Suetrong S, Somrithipol S, Pang KL. 2009a – Classification of marine Ascomycota, anamorphic taxa and Basidiomycota. Fungal Diversity 35, 1–187.

Jones EBG, Zuccaro A, Mitchell J, Nakagiri A, Chatmala I Pang KL. 2009b – Phylogenetic position of freshwater and marine *Sigmoidea* species: introducing a marine hyphomycete *Halosigmoidea* gen. nov. (Halosphaeriales). Botanica Marina 52, 349–359.

Kang HJ, Sigler L, Lee J, Gibas CFC, Yun SH, Lee YW. 2010 – *Xylogone ganodermophthora* sp. nov., an ascomycetous pathogen causing yellow rot on cultivated mushroom *Ganoderma lucidum* in Korea. Mycologia 102, 1167–1184.

Kirk PM, Cannon PF, Minter DW, Stalpers JA. 2008 – Dictionary of the fungi, 10th edn. CABI publishing, Wallingford, UK.

Kirschner R. 2009 – *Cercosporella* and *Ramularia*. Mycologia 101, 110–119.

Kirschner R, Chen CJ. 2010 –Two new species of *Ramichloridium*-like hyphomycetes from senescent leaves of night-scented lily (*Alocasia odora*) in Taiwan. Fungal Diversity 40, 41–50.

Kirschner R, Oberwinkler F. 2009 – Supplementary notes on *Basidiopycnis hyalina* (Basidiomycota, Atractiellales) and its anamorph. Mycotaxon 109, 29–38.

Kolařík M, Hulcr J. 2009 – Mycobiota associated with the ambrosia beetle *Scolytodes unipunctatus* (Coleoptera: Curculionidae, Scolytinae). Mycological Research 113, 44–60.

Kolařík M, Kirkendall LR. 2010 – Evidence for a new lineage of primary ambrosia fungi in *Geosmithia* Pitt (Ascomycota: Hypocreales). Fungal Biology 114, 676–689.

Koukol O. 2010 – Revision of "*Septonema ochraceum*" revealed three new species of Venturiaceae and Herpotrichiellaceae. Mycological Progress 9, 369–378.

Lechat C, Courtecuisse R. 2010 – A new species of *ljuhya, I. antillana*, from the French West Indies. Mycotaxon 113, 443–447.

Lechat C, Farr DF, Hirooka Y, Minnis AM, Rossman AY. 2010 – A new species of *Hydropisphaera*, *H. bambusicola*, is the sexual state of *Gliomastix fusigera.* Mycotaxon 111, 95–102.

Lee SJ, Strobel GA, Eisenman K, Geary B, Vargas PN, Strobel SA. 2009 – *Aurosphaeria*, a novel coelomycetous genus. Mycotaxon 107, 463–472.

Li C, Huang B, Fan M, Lin Y, Li Z. 2010 – *Metacordyceps guniujiangensis* and its *Metarhizium* anamorph: a new pathogen on cicada nymphs. Mycotaxon 111, 221–231.

Li SF, Yu ZF, Zhang Y, Qiao M, Guo JW, Zhang KQ. 2009 – *Arthrobotrys nonseptata*, a new anamorph from an *Orbilia* species. Mycotaxon 109, 247–254.

Liang J, Han Y, Du W, Liang Z, Li Z. 2009a – *Chrysosporium linfenense*: a new *Chrysosporium* species with keratinolytic activity. Mycotaxon 110, 65–71.

Liang ZQ, Han YF, Chu HL, Fox RTV. 2009b – Studies on the genus *Paecilomyces* in China V. *Taifanglania* gen. nov. for some monophialidic species. Fungal Diversity 34, 69–77.

Lima BV, Barreto RW, Soares DJ. 2009 – A new species of *Mycosphaerella* associated with foliage and stem necrosis on *Phytolacca americanae*. Mycotaxon 108, 307–311.

Lombard L, Zhou XD, Crous PW, Wingfield BD, Wingfield MJ. 2010 – *Calonectria* species associated with cutting rot of *Eucalyptus*. Persoonia 24, 1–11.

Lumbsch HT, Huhndorf SM. 2010 – Outline of Ascomycota–2009; Notes on ascomycete systematics. Nos. 4751–5113. Myconet 14, 1–69.

Luo J, Zhuang WY. 2010 – *Chaetopsinectria* (Nectriaceae, Hypocreales), a new genus with *Chaetopsina* anamorphs. Mycologia 112, 976–984.

Ma YQ, Zhang R, Sun GY, Zhu HX, Tang M, Batzer JC, Gleason ML. 2010 – A new species of *Zygophiala* associated with the flyspeck complex on apple from China. Mycological Progress 9, 151–155.

Madrid H, Cano J, Stchigel A, Gene J, Guarro J. 2010a – *Ramophialophora humicola* and *Fibulochlamys chilensis*, two new microfungi from soil. Mycologia 102, 605–612.

Madrid H, Gene J, Cano J, Silvera C, Guarro J. 2010b – *Sporothrix brunneoviolacea* and *Sporothrix dimorphospora*, two new members of the *Ophiostoma stenoceras-Sporothrix scherwkii* complex. Mycologia 102, 1193–1203.

Manoharachary C, Bagyanarayana G, Rao NK Kunwar I. 2009 – *Chasakopama*, a new dematiaceous hyphomycetous genus from India. Mycotaxon 110, 459–463.

Marincowitz S, Gryzenhout M, Wingfield MJ. 2010 – New and rare coelomycetes with

appendage-bearing conidia from Pondoland, South Africa. Mycotaxon 111, 309–322.

Massoumi Alamouti S, Tsui CKM, Breuil C. 2009 – Multigene phylogeny of filamentous ambrosia fungi associated with ambrosia and bark beetles. Mycological Research 113, 822–835.

Masuya H, Kusunoki M, Kosaka H, Aikawa T. 2009 – *Haradamyces foliicola* anam. gen. et sp. nov., a cause of zonate leaf blight disease in *Cornus florida* in Japan. Mycological Research 113, 173–181.

Mongkolsamrit S, Luangsa-Ard JJ, Spatafora JW, Sung GH, Hywel-Jones NL. 2009 – A combined ITS rDNA and beta-tubulin phylogeny of Thai species of *Hypocrella* with non-fragmenting ascospores. Mycological Research 113, 684–699.

Morin L, Shivas RG, Piper MC, Tan YP. 2010 – *Austropleospora osteospermi* gen. et sp. nov. and its host specificity and distribution on *Chrysanthemoides monilifera* ssp. *rotundata* in Australia. Fungal Diversity 40, 65–74.

Nagao H, Kurogi S, Kiyota E, Sasatomi K. 2009 – *Kumanasamuha geaster* sp. nov., an anamorph of *Chorioactis geaster* from Japan. Mycologia 101, 871–877.

Nekoduka S, Tanaka K, Harada Y, Sano T. 2010 – Phylogenetic affinity of *Mycochaetophora gentianae*, the causal fungus of brown leaf spot on gentian (*Gentiana triflora*), to *Pseudocercosporella*-like hyphomycetes in Helotiales. Mycoscience 51, 123–133.

Nováková A, Kolařík M. 2010 – Chrysosporium speluncarum, a new species resembling Ajellomyces capsulatus, obtained from bat guano in caves of tem-perate Europe. Mycological Progress 9, 253–260.

Pereira-Carvalho RC, Sepulveda-Chavera G, Armando EAS, Inacio CA, Dianese JC. 2009 – An overlooked source of fungal diversity: novel hyphomycete genera on trichomes of cerrado plants. Mycological Research 113, 261–274.

Peterson SW, Horn BW. 2009 – *Penicillium parvulum* and *Penicillium georgiense*, sp. nov., isolated from the conidial heads of *Aspergillus* species. Mycologia 101, 71–83.

Peterson SW, Jurjevic Z, Bills GF, Stchigel AM, Guarro J, Vega FE. 2010 – Genus *Hamigera*, six new species and multilocus DNA sequence based phylogeny. Mycologia 102, 847–864.

Phillips AJL, Alves A. 2009 – Taxonomy, phylogeny, and epitypification of *Melanops tulasnei,* the type species of *Melanops*. Fungal Diversity 38, 155–166.

Phillips AJL, Alves A, Pennycook SR, Johnston PR, Ramaley A, Akulov A, Crous PW. 2008 Resolving the phylogenetic and taxonomic status of dark-spored teleomorph genera in the *Botryosphaeriaceae*. Persoonia 21, 29–55.

Platas G, Gonzalez V, Collado J, Martin J, Montes C, Pelaez F. 2009 – Ascription of poorly defined taxa to taxonomic entities using molecular phylogenies: a case study on *Nodulisporium* sp. producers of nodulisporic acid. Mycotaxon 109, 443–460.

Plishka MJR, Tsuneda A, Currah RS. 2009 – Morphology and development of *Nigrosabulum globosum*, a cleistothecial coprophile in the Bionectriaceae (Hypocreales). Mycological Research 113, 815–821.

Prabhugaonkar A, Bhat D. 2009 – *Rattania setulifera*, an undescribed endophytic hyphomycete on rattans from Western Ghats, India. Mycotaxon 108, 217–222.

Prihastuti H, Cai L, Chen H, McKenzie EHC, Hyde KD. 2009 – Characterization of *Colletotrichum* species associated with coffee berries in northern Thailand. Fungal Diversity 39, 89–109.

Rainer J, Kaltseis J. 2010 – Diversity in *Scedosporium dehoogii* (Microascaceae): *S. deficiens* sp. nov. Sydowia 62, 137 – 147.

Réblová M. 2009 – Teleomorph of *Rhodoveronaea* (Sordariomycetidae) discovered and re-evolution of *Pleurophragmium*. Fungal Diversity 36, 129–139.

Réblová M, Štěpánek V. 2009 – New fungal genera, *Tectonidula* gen. nov. for *Calosphaeria*-like fungi with holoblastic-denticulate conidiogenesis and *Natantiella* gen. nov. for three species segre-

gated from *Ceratostomella*. Mycological Research 113, 991–1002.

Révay Á, Gönczöl J, Descals E. 2009 – *Tulipispora ingoldii* (Hyphomycetes) gen. et sp. nov. from submerged wood. Nova Hedwigia 88, 41–48.

Rossman AY, Schoch CL, Farr DF, Nishijima K, Keith L, Goenaga R. 2010 – *Dolabra nepheliae* on rambutan and lychee represents a novel lineage of phytopathogenic Eurotiomycetes. Mycoscience 51, 300–309.

Ruibal C, Gueidan C, Selbmann L, Gorbushina AA, Crous PW, Groenewald JZ, Muggia L, Grube M, Isola D, Schoch CL, Staley JT, Lutzoni F, de Hoog GS. 2009 – Phylogeny of rock-inhabiting fungi related to Dothideomycetes. Studies in Mycology 64, 123–133.

Runa F, Park MS, Pryor BM. 2009 – *Ulocladium* systematics revisited: phylogeny and taxonomic status. Mycological Progress 8, 35–47.

Salazar-Yepes M, de Carvalho AA. 2009 – Two new Uredinales in the Phakopsoraceae on Fabaceae from Brazil. Mycologia 101, 196–199.

Samson RA, Houbraken J, Varga J, Frisvad JC. 2009b – Polyphasic taxonomy of the heat resistant ascomycete genus *Byssochlamys* and its *Paecilomyces* anamorphs. Persoonia 22, 14–27.

Samuels GJ, Lu BS, Chaverri P, Candoussau F, Fournier J, Rossman AY. 2009 – *Cyanonectria*, a new genus for *Nectria cyanostoma* and its *Fusarium* anamorph. Mycological Progress 8, 49–58.

Schoch CL, Crous PW, Groenewald JZ, Boehm EWA, Burgess TI, De Gruyter J, De Hoog GS, Dixon LJ, Grube M, Gueidan C. 2009 – A class-wide phylogenetic assessment of Dothideomycetes. Studies in Mycology 64, 1–15.

Schroers HJ, O'Donnell K, Lamprecht SC, Kammeyer PL, Johnson S, Sutton DA, Rinaldi MG, Geiser DM, Summerbell RC. 2009 – Taxonomy and phylogeny of the *Fusarium dimerum* species group. Mycologia 101, 44–70.

Sert HB, Sterflinger K. 2010 – A new *Coniosporium* species from historical marble monuments. Mycological Progress 9, 353–359.

Seyran M, Nischwitz C, Lewis KJ, Gitaitis RD, Brenneman TB, Stevenson KL. 2010 – Phylogeny of the pecan scab fungus *Fusicladium effusum* G. Winter based on the cytochrome b gene sequence. Mycological Progress 9, 305–308.

Shearer CA, Raja HA, Miller AN, Nelson P, Tanaka K, Hirayama K, Marvanova L, Hyde KD, Zhang Y. 2009 – The molecular phylogeny of freshwater Dothideomycetes. Studies in Mycology 64, 145–153.

Shenoy BD, Jeewon R, Hyde KD. 2007 – Impact of DNA sequence-data on the taxonomy of anamorphic fungi. Fungal Diversity 26, 1–54.

Shenoy BD, Jeewon R, Wang HK, Amandeep K, Ho WH, Bhat DJ, Crous PW, Hyde KD. 2010 – Sequence data reveals phylogenetic affinities of fungal anamorphs *Bahusutrabeeja*, *Diplococcium*, *Natarajania*, *Paliphora*, *Polyschema*, *Rattania* and *Spadicoides*. Fungal Diversity 44, 161-169.

Simon UK, Groenewald JZ, Crous PW. 2009 – *Cymadothea trifolii*, an obligate biotrophic leaf parasite of *Trifolium*, belongs to Mycosphaerellaceae as shown by nuclear ribosomal DNA analyses. Persoonia 22, 49–55.

Sri-indrasutdhi V, Boonyuen N, Suetrong S, Chuaseeharonnachai C, Sivichai S, Jones EBG. 2010 – Wood-inhabiting freshwater fungi from Thailand: *Ascothailandia grenadoidia* gen. et sp. nov., *Canalisporium grenadoidia* sp. nov. with a key to *Canalisporium* species (Sordariomycetes, Ascomycota). Mycoscience 51, 411–420.

Stadler M, Fournier J, Læssøe T, Decock C, Peršoh D, Rambold G. 2010 – *Ruwenzoria*, a new genus of the Xylariaceae from Central Africa. Mycological Progress 9, 169–179.

Suetrong S, Schoch CL, Spatafora JW, Kohlmeyer J, Volkmann-Kohlmeyer B, Sakayaroj J, Phongpaichit S, Tanaka K, Hirayama K, Jones EBG. 2009 – Molecular systematics of the marine

Dothideomycetes. Studies in Mycology 64, 155–173.

Sukarno N, Kurihara Y, Ilyas M, Mangunwardoyo W, Yuniarti E, Sjamsuridzal W, Park JY, Saraswati R, Inaba S, Widyastuti Y. 2009 – *Lecanicillium* and *Verticillium* species from Indonesia and Japan including three new species. Mycoscience 50, 369–379.

Sun XA, Guo LD. 2010 – *Micronematobotrys*, a new genus and its phylogenetic placement based on rDNA sequence analyses. Mycological Progress 9, 567–574.

Suto Y. 2009 – Three ascomycetes on leaves of evergreen *Ilex* trees from Japan: *Rhytisma ilicis-integrae* sp. nov., *R. ilicis-latifoliae*, and *R. ilicis-pedunculosae* sp. nov. Mycoscience 50, 357–368.

Tadych M, Chaverri P, Bergen M, White JF. 2009 – *Moelleriella zhongdongii*: stroma development and identification of *Hirustella*-like and *Aschersonia* synanamorphs. Mycological Research 113, 611–615.

Takamatsu S, Heluta V, Havrylenko M, Divarangkoon R. 2009 – Four powdery mildew species with catenate conidia infect *Galium*: molecular and morphological evidence. Mycological Research 113, 117–129.

Takemoto S, Nakamura H, Sasaki A, Shimane T. 2009 – *Rosellinia compacta*, a new species similar to the white root rot fungus *Rosellinia necatrix*. Mycologia 101, 84–94.

Talgø V, Chastagner G, Thomsen IM, Cech T, Riley K, Lange K, Klemsdal SS, Stensvand A. 2010 – *Sydowia polyspora* associated with current season needle necrosis (CSNN) on true fir (*Abies* spp.). Fungal Biology 114, 545–554.

Tanaka K, Hirayama K, Yonezawa H, Hatakeyama S, Harada Y, Sano T, Shirouzu T, Hosoya T. 2009 – Molecular taxonomy of bambusicolous fungi: Tetraplosphaeriaceae, a new pleosporalean family with *Tetraploa*-like anamorphs. Studies in Mycology 64, 175–209.

Tanaka K, Mel'nik VA, Kamiyama M, Hirayama K, Shirouzu T. 2010 – Molecular phylogeny of two coelomycetous fungal genera with stellate conidia, *Prosthemium* and *Asterosporium*, on Fagales trees. Botany-Botanique 88, 1057–1071.

Taylor K, Barber PA, Hardy GES, Burgess TI. 2009 – Botryosphaeriaceae from tuart (*Eucalyptus gomphocephala*) woodland, including descriptions of four new species. Mycological Research 113, 337–353.

Tsui CKM, Berbee ML. 2010 – Transfer of two *Helicoma* species to *Troposporella* based on molecular and morphological data. Mycoscience 51, 144–148.

Vilela R, Rosa PS, Belone AFF, Taylor JW, Diório SM, Mendoza L. 2009 – Molecular phylogeny of animal pathogen *Lacazia loboi* inferred from rDNA and DNA coding sequences. Mycological Research 113, 851–857.

Vujanovic V, Goh YK. 2009 – *Sphaerodes mycoparasitica* sp. nov., a new biotrophic mycoparasite on *Fusarium avenaceum*, *F. graminearum* and *F. oxysporum*. Mycological Research 113, 1172–1180.

Walker DM, Castlebury LA, Rossman AY, Sogonov MV, White JF. 2010 – Systematics of genus *Gnomoniopsis* (Gnomoniaceae, Diaporthales) based on a three gene phylogeny, host associations and morphology. Mycologia 102, 1479–1496.

Wang W, Mcghee D, Gibas CFC, Tsuneda A, S CR. 2009. *Phialocephala urceolata*, sp. nov., from a commercial, water-soluble heparin solution. Mycologia 101, 136–141.

Weisenborn J, Kirschner R, Piepenbring M. 2010 – A new darkly pigmented and keratinolytic species of *Acremonium* (Hyphomycetes) with relationship to the Plectosphaerellaceae from human skin and nail lesions in Panama. Nova Hedwigia 90, 457–468.

Xu Z, Harrington TC, Gleason ML, Batzer JC. 2010 – Phylogenetic placement of plant pathogenic *Sclerotium* species among teleomorph genera. Mycologia 102, 337–346.

Yaguchi T, Matsuzawa T, Tanaka R, Abliz P, Hui Y, Horie Y. 2010 – Two new species of *Neosartorya* isolated from soil in Xinjiang, China. Mycoscience 51, 253–262.

Yamaguchi K, Degawa Y, Nakagiri A. 2009 – An aero-aquatic fungus, *Peyronelina glomerulata*, is shown to have teleomorphic affinities with cyphelloid basidiomycetes. Mycoscience 50, 156–164.

Yang YL, Liu ZY, Cai L, Hyde KD, Yu ZN, McKenzie EHC. 2009 – *Colletotrichum* anthracnose of Amaryllidaceae. Fungal Diversity 39, 123–146.

Yang HL, Sun GY, Batzer JC, Crous PW, Groenewald JZ, Gleason ML. 2010 – Novel fungal genera and species associated with the sooty blotch and flyspeck complex on apple in China and the USA. Persoonia 24, 29–37.

Yu Z, Qin L, Zhang Y, Qiao M, Kong Y, Zhang K. 2009 – A new *Drechslerella* species isolated from *Orbilia* cf. *orientalis*. Mycotaxon 110, 253–259.

Zanzot JW, de Beer ZW, Eckhardt LG, Wingfield MJ. 2010 – A new *Ophiostoma* species from loblolly pine roots in the southeastern United States. Mycological Progress 9, 447–457.

Zare R, Asgari B, Gams W. 2010 – The species of *Coniolariella*. Mycologia 102, 1383–1388.

Zhang Y, Schoch CL, Fournier J, Crous PW, De Gruyter J, Woudenberg JHC, Hirayama K, Tanaka K, Pointing SB, Spatafora JW, Hyde KD. 2009a. Multi-locus phylogeny of Pleosporales: a taxonomic, ecological and evolutionary re-evaluation. Studies in Mycology 64, 85–102.

Zhang R, Guo XP, Sun GY, Tang M, Gleason ML. 2009b – *Dothiorella viticola* on *Populus cathayana* in China: a new record. Mycotaxon 109, 129–135.

Zhang R, Yang HL, Sun GY, Li HY, Zhuang JL, Zhai XR, Gleason ML. 2009c – *Strelitziana mali*, a new species causing sooty blotch on apple fruit. Mycotaxon 110, 477–485.

Zhao GZ, Tian YH, Liu XZ. 2009 – *Ramoacrodictys*, a new hyphomycete genus for one species previously accommodated in *Acrodictys*. Sydowia 61, 353–359.

Zou X, Liu A, Liang Z, Han Y, Yang M. 2010 – *Hirsutella liboensis*, a new entomopathogenic species affecting *Cossidae* (Lepidoptera) in China. Mycotaxon 111, 39–44.