

A lista que segue é extraída do *Index Fungorum*, mantido pela CABI Biosciences (<http://www.indexfungorum.org/>), onde a nomenclatura e taxonomia micológica vem sendo mantida e actualizada. Para além do levantamento das fontes originais, este recurso tem sido aperfeiçoado em função dos parentescos filogenéticos deduzidos de sequências de DNA, esclarecendo sinonímias por um lado, e reagrupando os táxones. Esta revolução na sistemática dos fungos tornou praticamente irreconhecível o que nem há 10 anos se considerava bem estabelecido em Micologia. Estando a respectiva fonte em permanente actualização, assim este documento é actualizado com a periodicidade possível.

A informação disponível foi transposta de modo a organizar os nomes genéricos por famílias e, dentro delas, estabelecer as sinonímias. Opções que foram feitas e observações adicionais:

1. Trata-se duma lista de nomes de géneros classificados apenas nas classes Agaricomycetes, Dacrymycetes e Tremellomycetes (Basidiomycota), e na ordem Pezizales (Ascomycota). Estes grupos abrangem a quase totalidade das espécies que interessam aos que se iniciam na Micologia na perspectiva de “macrofungos”.
2. Todos os nomes genéricos para os quais é proposto um segundo nome mais correcto são apresentados em tipo mais pequeno, com a indicação entre parêntesis do nome que aparentemente se deve adoptar. As sinonímias apresentadas nem sempre são explícitas na fonte, mas resultam do princípio de transitividade, por exemplo: *Kneiffia* Fr. = *Kneiffiella* Underw., *Kneiffiella* = *Neokneiffia* Sacc., *Neokneiffia* = *Hyphoderma* Wallr., donde *Kneiffia* = *Hyphoderma* (Meruliaceae, Polyporales).
3. Nalguns casos sem sinónimos (por exemplo *Grandinia* Fr.) a base de dados não lista nenhuma espécie e usa-se também o tipo pequeno.
4. A diferenciação entre nomes correctos e meros sinónimos visa antecipar a dimensão da taxonomia de cada família, que deverá convergir para uma lista de dimensão semelhante à que é aqui representada pelos nomes em tipo normal. É notável o efeito de simplificação que tem em várias famílias, como nas Entolomataceae (quase todos os nomes são remetidos ao género *Entoloma*), nas Schizophyllaceae (*Schizophyllum*) ou nas Suillaceae (*Suillus*).
5. Portanto, quando se referem colectivamente “géneros” trata-se na verdade de nomes genéricos, não de táxones.
6. O propósito das recomendações de substituição é corresponderem mais fielmente à classificação natural, e se não são ainda consensuais, presume-se que se está em vias disso. Presume-se, pois, que *Hypholoma* e *Stropharia* passarão a dar lugar a *Psilocybe*, por exemplo. Por outro lado, esta transitoriedade implica algumas ambiguidades, não o caso das aparentes duplicações — *Leptochaete* Lév. 1846 (Hymenochaetaceae) e *Leptochaete* Zmitr. & Spirin 2006 (Agaricomycetes: posição incerta) ou *Botryobasidium* Donk (Botryobasidiaceae) e *Botryobasidium* Rick (Thelephoraceae) — mas sinonímias contraditórias (caso de *Dacryopsida* Nees 1816, que aparece como tendo posição incerta nos Agaricomycetes mas para o qual o nome correcto seria *Dacrymyces*, Dacrymycetaceae; também *Roseofavolus* T. Hatt. 2003 e *Rhodonia* Niemelä 2005, Polyporaceae, ou *Matula* Masee 1888, Corticiaceae, apontam para sinónimos noutras famílias), ou mal definidas (*Ceratella* (Quél.) Bigeard & H. Guill. 1913, Clavulinaceae). A tendência é para ficarem resolvidos a breve trecho, como foi com os casos de *Hygrocybe* (já aparece nas Hygrophoraceae) ou *Pleurotopsis* e *Urceolus* (cujos sinónimos foram corrigidos)...
7. Pela mesma ordem de ideias, é natural que muitas posições incertas deixem de sê-lo, como é o caso de *Rickenela* (saiu das Tricholomataceae para posição incerta nos Agaricomycetes) ou de *Panaeolus* (das Psathyrellaceae para posição incerta nos Agaricales), ou ainda as numerosas ordens de Agaricomycetes ainda sem subclasse definida.
8. Em relação à versão de 2006 houve várias famílias que, pela massa de saídas e/ou entradas de géneros, sofreram grandes redefinições, caso das Meruliaceae, das Polyporaceae, das Agaricaceae, das Marasmiaceae ou das Strophariaceae, resultando grupos que exemplificam como a morfologia macroscópica e mesmo microscópica são insuficientes para a construção duma taxonomia natural. Tais redefinições podem ter grande impacto na utilização de critérios de identificação tradicionalmente utilizados para delimitar famílias ou outros níveis taxonómicos.

As fontes utilizadas podem ser acedidas pelos endereços:

<http://www.indexfungorum.org/Names/fundic.asp?RecordID=Agaricomycetidae&Type=S>

<http://www.indexfungorum.org/Names/fundic.asp?RecordID=Pezizales&Type=O>

Desde já se agradecem correcções e avisos sobre actualizações.

Paulo de Oliveira, 30 de Outubro de 2005, 28 de Dezembro de 2006, 3 de Janeiro de 2009

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Filo Ascomycota

Classe Pezizomycetes

(outras classes: Arthoniomycetes, Dothideomycetes, Eurotiomycetes, Laboulbeniomycetes, Lecanoromycetes, Leotiomycetes, Lichinomycetes, Neoelectromycetes, Orbiliomycetes, Pneumocystidomycetes, Saccharomycetes, Schizosaccharomycetes, Sordariomycetes, Taphrinomycetes, e 44 géneros sem classe definida)

Incertae sedis

Coprotiella Jeng & J.C. Krug 1976

Ordem Pezizales

Incertae sedis

Amblyosporiopsis Fairm. 1922 (= *Oedocephalum*), *Ascofascicula* Matsush. 2003, *Berggrenia* Cooke 1879, *Boubovia* Svrcek 1977, *Cephalophora* Thaxt. 1903, *Cephalomyces* Bainier 1907 (= *Cephalophora*), *Delastria* Tul. & C. Tul. 1843, *Dennisiopsis* Subram. & Chandrash. 1977, *Diehliomyces* Gilkey 1955, *Discinella* P. Karst. 1891, *Filicupula* Y.J. Yao & Spooner 1996, *Fischerula* Mattir. 1928, *Fleischhakea* Rabenh. 1878 (= *Psilopezia*), *Geomorium* Speg. 1922 (= *Underwoodia*), *Hylostoma* Pers. 1822, *Lecophagus* M.W. Dick 1990, *Microeurotium* Ghatak 1936, *Mycoarctium* K.P. Jain & Cain 1973, *Ochotrichobolus* Kimbr. & Korf 1983, *Oedocephalum* Preuss 1851, *Picoa* Vittad. 1831, *Pilopeza* Fr. 1849, *Psilopezia* Berk. 1847 (= *Psilopezia*), *Pulparia* P. Karst. 1866 (= *Pulvinula*), *Pulvinula* Boud. 1885, *Sporocephalum* Arnaud 1952 (= *Oedocephalum*), *Strobiloscypha* N.S. Weber & Denison 1995, *Trichobolus* (Sacc.) Kimbr. & Cain 1967, *Underwoodia* Peck 1890, *Urceolaria* Bonord. 1851, *Verticicladium* Preuss 1851

Ascobolaceae

Anserina Velen. 1934 (= *Ascobolus*), *Ascobolus* Pers. 1792, *Ascophanella* Faurel & Schotter 1965 (= *Thecotheus*), *Ascophanopsis* Faurel & Schotter 1965 (= *Thecotheus*), *Ascophanus* Boud. 1869, *Crouaniella* (Sacc.) Lambotte 1888 (= *Ascobolus*), *Cubonia* Sacc. 1889, *Dasybolus* Clem. & Shear 1931, *Dasybolus* (Sacc.) Sacc. 1895 (= *Ascobolus*), *Ornithascus* Velen. 1934 (= *Saccobolus*), *Rhizostilbella* Wolk 1914, *Saccobolus* Boud. 1869, *Seliniella* Arx & E. Müll. 1955 (= *Ascobolus*), *Sphaeridiobolus* (Boud.) Boud. 1885 (= *Ascobolus*), *Thecotheus* Boud. 1869

Ascodesmidaceae

Ascodesmis Tiegh. 1876, *Eleutherascus* Arx 1971, *Hemiascosporium* L.R. Batra 1973 (= *Eleutherascus*), *Lasiobolus* Sacc. 1884, *Pyronemella* (Vido) Sacc. 1889 (= *Lasiobolus*)

Caloscyphaceae

Caloscypha Boud. 1885, *Geniculodendron* G.A. Salt 1974, *Otidella* Sacc. 1889 (= *Caloscypha*)

Carbomycetaceae

Carbomyces Gilkey 1954

Chorioactidaceae

Chorioactis Kupfer ex Eckblad 1968, *Desmazierella* Lib. 1829, *Neournula* Paden & Tylutki 1969, *Wolfina* Seaver ex Eckblad 1968

Discinaceae

Discina (Fr.) Fr. 1849, *Fastigiella* Benedix 1969 (= *Gyromitra*), *Geoporella* Soehner 1951 (= *Hydnотrya*), *Gymnohydnotrya* B.C. Zhang & Minter 1989, *Gyrocephalus* Pers. 1824 (= *Gyromitra*), *Gyrocratera* Henn. 1899 (= *Hydnотrya*), *Gyromitra* Fr. 1849, *Gyromitrodes* Vassilkov 1942 (= *Pseudorhizina*), *Helvellella* S. Imai 1932 (= *Pseudorhizina*), *Hydnотrya* Berk. & Broome 1846, *Maublancomyces* Herter 1950 (= *Gyromitra*), *Neogyromitra* S. Imai 1932 (= *Gyromitra*), *Ochromitra* Velen. 1934 (= *Pseudorhizina*), *Paradiscina* Benedix 1969 (= *Gyromitra*), *Physomitra* Boud. 1885 (= *Gyromitra*), *Pleopus* Paulet 1808 (= *Gyromitra*), *Pseudorhizina* Jacz. 1913

Glaziellaceae

Endogonella Höhn. 1913 (= *Glaziella*), *Glaziella* Berk. 1880

Helvellaceae

Acetabula (Fr.) Fuckel 1870 (= *Helvella*), *Balsamia* Vittad. 1831, *Barssia* Gilkey 1925, *Biverpa* (Fr.) Boud. 1907 (= *Helvella*), *Boletolichen* Juss. 1789 (= *Helvella*), *Cidaris* Fr. 1849, *Coelomorom* Paulet 1793 (= *Helvella*), *Costapeda* Falck 1923 (= *Helvella*), *Cowlesia* Nieuwl. 1916 (= *Helvella*), *Cyathipodia* Boud. 1907 (= *Helvella*), *Fuckelina* Kuntze 1891 (= *Helvella*), *Globopilea* Beauseign. 1926 (= *Helvella*), *Helvella* L. 1753, *Leptopodia* Boud. 1885 (= *Helvella*), *Leucangium* Quél. 1883, *Macropodia* Fuckel 1870 (= *Helvella*), *Macroscyphus* Nees ex Gray 1821 (= *Helvella*), *Midotis* Fr. 1828 (= *Wynnella*), *Paxina* Kuntze 1891 (= *Helvella*), *Phaeomacropus* Henn. 1899 (= *Helvella*), *Phleboscaphus* Clem. 1903 (= *Helvella*), *Phymatomyces* Kobayasi 1937 (= *Barssia*), *Pindara* Velen. 1934 (= *Helvella*), *Pseudobalsamia* E. Fisch. 1907 (= *Balsamia*), *Tubipeda* Falck 1923

(= *Helvella*), *Wynnella* Boud. 1885

Karstenellaceae

Karstenella Harmaja 1969

Morchellaceae

Boletus Tourn. ex Adans. 1763 (= *Morchella*), *Costantinella* Matr. 1892, *Disciotis* Boud. 1885, *Eromitra* Lév. 1846 (= *Morchella*), *Mitrophora* Lév. 1846 (= *Morchella*), *Monka* Adans. 1763 (= *Verpa*), *Morchella* Dill. ex Pers. 1794, *Morilla* Qué. 1886 (= *Morchella*), *Phalloboletus* Adans. 1763 (= *Morchella*), *Ptychoverpa* Boud. 1907 (= *Verpa*), *Relhanum* Gray 1821 (= *Verpa*), *Verpa* Sw. 1815

Pezizaceae

Aleuria (Fr.) Gillet 1879 (= *Peziza*), *Aleurina* (Sacc.) Sacc. & P. Syd. 1902 (= *Peziza*), *Amylascus* Trappe 1971, *Boudiera* Cooke 1877, *Caulocarpa* Gilkey 1947 (= *Sarcosphaera*), *Cazia* Trappe 1989, *Chromelosporium* Corda 1833 (= *Ostracoderma*), *Cleistoiodophanus* J.L. Bezerra & Kimbr. 1976, *Clelandia* Trappe 1979 (= *Mycoclelandia*), *Cryptica* R. Hesse 1884 (= *Pachyphloeus*), *Curreyella* Massee 1895 (= *Plicaria*), *Daleomyces* Setch. 1924 (= *Peziza*), *Detonia* Sacc. 1889 (= *Plicaria*), *Discaria* (Sacc.) Sacc. 1889 (= *Plicaria*), *Durandiomyces* Seaver 1928 (= *Peziza*), *Eremiomyces* Trappe & Kagan-Zur 2005, *Galactinia* (Cooke) Boud. 1885 (= *Peziza*), *Geoscypha* (Cooke) Lambotte 1888 (= *Peziza*), *Glischroderma* Fuckel 1870, *Gonzala* Adans. ex Léman 1821 (= *Peziza*), *Gorodkoviella* Vassilkov 1969 (= *Pachyella*), *Hapsidomyces* J.C. Krug & Jeng 1984, *Heteroplegma* Clem. 1903 (= *Peziza*), *Hydnobolites* Tul. & C. Tul. 1843, *Hydnoplicata* Gilkey 1955 (= *Peziza*), *Hydnotryopsis* Gilkey 1916, *Infundibulum* Velen. 1934 (= *Peziza*), *Iodophanus* Korf 1967, *Iodowynnea* Medel, Guzmán & S. Chacón 1996, *Iotidea* Clem. 1909 (= *Peziza*), *Kalaharituber* Trappe & Kagan-Zur 2005, *Kimbroppezia* Korf & W.Y. Zhuang 1991, *Lepidotia* Boud. 1885 (= *Peziza*), *Leptopezia* G.H. Oth 1871 (= *Plicaria*), *Lycoperdellon* Torrend 1913 (= *Ostracoderma*), *Marcelleina* Brumm., Korf & Rifai 1967, *Mattirolomyces* E. Fisch. 1938 (= *Terfezia*), *Muciturbo* P.H.B. Talbot 1989, *Mycoclelandia* Trappe & G.W. Beaton 1984, *Napomyces* Setch. ex Clem. & Shear 1931 (= *Daleomyces*), *Ostracoderma* Fr. 1825, *Pachyella* Boud. 1907, *Pachyphloides* Zobel 1854 (= *Pachyphloeus*), *Pachyphloeus* Tul. & C. Tul. 1844, *Paramitra* Benedix 1962 (= *Peziza*), *Peltidium* Kalchbr. 1862 (= *Pachyella*), *Peziza* Dill. ex Fr. 1822, *Pfistera* Korf & W.Y. Zhuang 1991 (= *Peziza*), *Phaeobarlaea* Henn. 1903 (= *Plicaria*), *Phaeopezia* (Vido) Sacc. 1884 (= *Peziza*), *Plicaria* Fuckel 1870, *Plicariella* (Sacc.) Rehm 1894 (= *Plicaria*), *Podaleuris* Clem. 1909 (= *Peziza*), *Pulvinaria* Velen. 1934 (= *Pachyella*), *Rhodopezia* Hohmeyer & J. Moravec 1995, *Ruhlandiella* Henn. 1903, *Sarcosphaera* Auersw. 1869, *Scabroppezia* Dissing & Pfister 1981 (= *Plicariella*), *Scodellina* Gray 1821 (= *Peziza*), *Sphaerozone* Zobel 1854, *Svrcekia* Kubicka 1960 (= *Boudiera*), *Terfezia* (Tul. & C. Tul.) Tul. & C. Tul. 1851, *Tirmania* Chatin 1892, *Tomentelleopsis* Orlova 1959 (= *Ostracoderma*), *Tremellodiscus* Lloyd 1925 (= *Ruhlandiella*), *Tulasneinia* Zobel ex Corda 1854 (= *Terfezia*), *Tulasnia* Lesp. (= *Terfezia*)

Pyronemataceae

Acervus Kanouse 1938, *Actinospora* Ingold 1952 (= *Actinosporella*), *Actinosporella* Descals, Marvanová & J. Webster 1999, *Aleuria* Fuckel 1870, *Aleurina* Massee 1898, *Angiophaeum* Sacc. 1898 (= *Phaeangium*), *Anixia* H. Hoffm. 1862 (= *Orbicula*), *Anthracobia* Boud. 1885, *Aparaphysaria* Speg. 1922, *Arpinia* Berthet 1974, *Ascocalathium* Eidam ex J. Schröt. 1893, *Ascorhizoctonia* Chin S. Yang & Korf 1985, *Ascosparassis* Kobayasi 1960, *Barlaea* Sacc. 1889 (= *Lamprospora*), *Barlaeina* Sacc. & P. Syd. 1899 (= *Lamprospora*), *Boudierella* Sacc. 1895, *Byssonectria* P. Karst. 1881, *Chaetothiersia* B.A. Perry & Pfister 2008, *Chalazion* Dissing & Sivertsen 1975, *Cheilymenia* Boud. 1885, *Ciliaria* Qué. 1885 (= *Scutellinia*), *Cochlearia* (Cooke) Lambotte 1888 (= *Otidea*), *Complexipes* C. Walker 1979, *Coprobria* Boud. 1885 (= *Cheilymenia*), *Crouania* Fuckel 1870 (= *Lamprospora*), *Densocarpa* Gilkey 1954 (= *Stephensia*), *Dichobotrys* Hennebert 1973, *Dictyocoprotus* J.C. Krug & R.S. Khan 1991, *Discomycetella* Sanwal 1953 (= *Miladina*), *Elderia* McLennan 1961 (= *Stephensia*), *Eoaleurina* Korf & W.Y. Zhuang 1986, *Fimaria* Velen. 1934 (= *Pseudombrophila*), *Flavoscypha* Harmaja 1974 (= *Otidea*), *Galeoscypha* Svrcek & J. Moravec 1989, *Genabea* Tul. & C. Tul. 1844 (= *Genea*), *Genea* Vittad. 1831, *Geneosperma* Rifai 1968, *Geopora* Harkn. 1885, *Geopyxis* (Pers.) Sacc. 1889, *Gilkeya* M.E. Sm., Trappe & Rizzo 2007, *Greletia* Donadini 1980 (= *Smardaea*), *Hiemsia* Svrcek 1969, *Humaria* (Fr.) Boud. 1885 (= *Octospora*), *Humaria* Fuckel 1870, *Humariella* J. Schröt. 1893 (= *Scutellinia*), *Humarina* Seaver 1927 (= *Octospora*), *Hydnocaryon* Wallr. 1833 (= *Genea*), *Hydnocystis* Tul. 1844, *Hypotarsetta* Donadini 1985, *Inermisia* Rifai 1968 (= *Byssonectria*), *Jafnea* Korf 1960, *Jafneadelphus* Rifai 1968 (= *Aleurina*), *Kotlabaea* Svrcek 1969, *Lachnea* Boud. 1885 (= *Humaria*), *Lachnea* (Fr.) Gillet 1879 (= *Scutellinia*), *Lamprospora* De Not. 1863, *Lasiobolidium* Malloch & Cain 1971, *Lathraeodiscus* Dissing & Sivertsen 1989, *Lazuardia* Rifai 1988, *Leucoloma* Fuckel 1870 (= *Octospora*), *Leucopezis* Clem. 1909 (= *Humaria*), *Leucoscypha* Boud. 1885, *Luciotrichus* R. Galán & Raitv. 1995, *Melastiza* Boud. 1885, *Melastiziella* Svrcek 1948 (= *Scutellinia*), *Miladina* Svrcek 1972, *Monascella*

Guarro & Arx 1986, *Moravecchia* Benkert, Caillet & Moyne 1987, *Mycogala* Rostaf. ex Sacc. 1884 (= *Orbicula*), *Mycogalopsis* Gjurašin 1925, *Mycolachnea* Maire 1937 (= *Humaria*), *Myrmecocystis* Harkn. 1899 (= *Genea*), *Nannfeldtiella* Eckblad 1968 (= *Pseudombrophila*), *Neottiella* (Cooke) Sacc. 1889, *Neottiopezis* Clem. 1903 (= *Neottiella*), *Nothojafnea* Rifai 1968, *Octospora* Hedw. 1789, *Octosporella* Döbbeler 1980, *Orbicula* Cooke 1871, *Otidea* (Pers.) Bonord. 1851, *Otideopsis* B. Liu & J.Z. Cao 1987, *Oviascoma* Y.J. Yao & Spooner 1996, *Parascutellinia* Svrcek 1975, *Paratrachophaea* Trigaux 1985, *Patella* F.H. Wigg. ex Seaver 1928 (= *Scutellinia*), *Paurocotylis* Berk. ex Hook. f. 1855, *Petchiomyces* E. Fisch. & Mattir. 1938, *Peziza* Fuckel 1870 (= *Aleuria*), *Phaeangium* Pat. 1894, *Phaedropezia* Le Gal 1953 (= *Acervus*), *Phycoascus* Möller 1901 (= *Pyronema*), *Protogenea* Kobayasi 1964 (= *Hydnocystis*), *Pseudaleuria* Lusk 1987, *Pseudohydnotrya* E. Fisch. 1897, *Pseudocollema* Kanouse & A.H. Sm. 1940 (= *Byssonectria*), *Pseudogenea* Buchholz 1901 (= *Genea*), *Pseudohydnotrya* E. Fisch. 1897 (= *Geopora*), *Pseudombrophila* Boud. 1885, *Pseudotis* (Boud.) Boud. 1907 (= *Otidea*), *Pustularia* Fuckel 1870 (= *Tarzetia*), *Pustulina* Eckblad 1968 (= *Tarzetia*), *Pyronema* Carus 1835, *Pyropyxis* Egger 1984, *Ramsbottomia* W.D. Buckley 1923, *Ramulina* Velen. 1947 (= *Pseudombrophila*), *Rhizoblepharia* Rifai 1968, *Rhodoscypha* Dissing & Sivertsen 1983, *Rhodotarzetia* Dissing & Sivertsen 1983, *Rubelia* Nieuwl. 1916 (= *Scutellinia*), *Scutellinia* (Cooke) Lambotte 1887, *Sepultaria* (Cooke) Boud. 1885 (= *Geopora*), *Sepultariella* Kutorga 2000, *Smardaea* Svrcek 1969, *Smarodisia* Raitv. & Vimba 2006, *Sowerbyella* Nannf. 1938, *Sphaeriopsis* Geyl. 1887, *Sphaerosoma* Klotzsch 1839, *Sphaerospora* (Sacc.) Sacc. 1889 (= *Scutellinia*), *Sphaerosporella* (Svrcek) Svrcek & Kubicka 1961, *Sphaerosporula* Kuntze 1898 (= *Scutellinia*), *Sphaerosoma* Corda 1842 (= *Sphaerosoma*), *Spooneromyces* T. Schumach. & J. Moravec 1989, *Stephensia* Tul. 1845, *Stereolachnea* Höhn. 1917 (= *Scutellinia*), *Svrcekomyces* J. Moravec 1976 (= *Pseudombrophila*), *Tarzetia* (Cooke) Lambotte 1888, *Trichaleurina* Rehm 1903 (= *Scutellinia*), *Trichaleuris* Clem. 1909 (= *Scutellinia*), *Tricharia* Boud. 1885 (= *Tricharina*), *Tricharina* Eckblad 1968, *Trichophaea* Boud. 1885, *Trichophaeopsis* Korf & Erb 1972, *Warcupia* Paden & J.V. Cameron 1972, *Wenyungia* Zheng Wang & Pfister 2001, *Wilcoxina* Chin S. Yang & Korf 1985

Rhizinaceae

Phymatotrichopsis Hennebert 1973, *Rhizina* Fr. 1815

Sarcoscyphaceae

Anthopeziza Wettst. 1885 (= *Microstoma*), *Articulariella* Höhn. 1909 (= *Microstoma*), *Articulis* Clem. & Shear 1931 (= *Articulariella*), *Aurophora* Rifai 1968, *Boedijnopeziza* S. Ito & S. Imai 1937 (= *Cookeina*), *Cookeina* Kuntze 1891, *Geodina* Denison 1965, *Komposcypha* Pfister 1989, *Microstoma* Bernstein 1852, *Molliardiomyces* Paden 1984, *Nanoscypha* Denison 1972, *Phillipsia* Berk. 1881, *Pilocratera* Henn. 1891 (= *Cookeina*), *Pithya* Fuckel 1870, *Pseudopithyella* Seaver 1928, *Rickiella* Syd. 1904 (= *Phillipsia*), *Sarcoscypha* (Fr.) Boud. 1885, *Scypharia* (Qué.) Qué. 1886 (= *Sarcoscypha*), *Thindia* Korf & Waraich 1971, *Trichoscypha* (Cooke) Sacc. 1889 (= *Cookeina*), *Wynnea* Berk. & M.A. Curtis 1867

Sarcosomataceae

Botryoxylon Cif. 1962 (= *Conoplea*), *Burcardia* Schmidel 1797 (= *Sarcosoma*), *Conoplea* Pers. 1801, *Dacrina* Fr. 1832 (= *Strumella*), *Donadinia* Bellem. & Mel.-Howell 1990, *Galiella* Nannf. & Korf 1957, *Gloeocalyx* Massee 1901 (= *Plectania*), *Korfiella* D.C. Pant & V.P. Tewari 1970, *Melascypha* Boud. 1885 (= *Pseudoplectania*), *Plectania* Fuckel 1870, *Pseudoplectania* Fuckel 1870, *Rhizopodella* (Cooke) Boud. 1885 (= *Plectania*), *Sarcosoma* Casp. 1891, *Selenaspora* R. Heim & Le Gal 1936, *Streblocaulium* Chevall. 1837 (= *Conoplea*), *Streptothrix* Corda 1839 (= *Conoplea*), *Strumella* Fr. 1849, *Urnula* Fr. 1849

Tuberaceae

Aschion Wallr. 1833 (= *Tuber*), *Choeromyces* Tul. & C. Tul. 1862 (= *Choiromyces*), *Choiromyces* Vittad. 1831, *Delastreopsis* Mattir. 1905 (= *Tuber*), *Dingleya* Trappe 1979, *Ensaluta* Zobel 1854 (= *Tuber*), *Labyrinthomyces* Boedijn 1939, *Lespiaultinia* Zobel 1854 (= *Tuber*), *Loculotuber* Trappe, Parladé & I.F. Alvarez 1993, *Mukagomyces* S. Imai 1940 (= *Tuber*), *Oogaster* Corda 1854 (= *Tuber*), *Paradoxa* Mattir. 1935, *Piersonia* Harkn. 1899 (= *Choiromyces*), *Reddellomyces* Trappe, Castellano & Malajczuk 1992, *Tartufa* (Gray) Kuntze 1891 (= *Choiromyces*), *Terfeziopsis* Harkn. 1899 (= *Tuber*), *Tuber* P. Micheli ex F.H. Wigg. 1780, *Tuberium* Raf. 1815 (= *Tuber*), *Vittadinion* Zobel 1854, (= *Tuber*) *Zobelia* Opiz 1855 (= *Choiromyces*)

Filo Basidiomycota

(outros filis: Blastocladiomycota, Chytridiomycota, Glomeromycota, Microspora, Neocallimastigomycota, Zygomycota, e 419 géneros sem filo definido)

Classe Agaricomycetes**Incertae sedis**

Akenomyces G. Arnaud ex D. Hornby 1984, *Aldridgea* Masee 1892, *Alloclavaria* Dentinger & D.J. McLaughlin 2007, *Arthrodochium* R.F. Castañeda & W.B. Kendr. 1990, *Arualis* Katz 1980, *Blasiphalia* Redhead 2007, *Bresadolina* Brinkmann 1909 (= *Cotylidia*), *Bridgeoporus* T.J. Volk, Burds. & Ammirati 1996, *Cenangiomycetes* Dyko & B. Sutton 1979, *Cilicia* Fr. 1825, *Contumyces* Redhead, Moncalvo, Vilgalys & Lutzoni 2002, *Corneohydnum* Lloyd 1924, *Corticomyces* A.I. Romero & S.E. López 1989, *Cotylidia* P. Karst. 1881, *Craterella* Pers. 1794 (= *Cotylidia*), *Cruciger* R. Kirschner & Oberw. 1999, *Cryptolepiota* Kropp & Trappe 2007, *Cyphellostereum* D.A. Reid 1965, *Dacryopsida* Nees 1816 (cf. *Dacrymycetaceae*), *Dendrosporomyces* Nawawi, J. Webster & R.A. Davey 1977, *Druparia* Raf. 1808, *Drupasias* Raf. 1809, *Ellula* Nag Raj 1980, *Endoconia* Raf. 1819, *Fauxtylostoma* McGinty 1923, *Fibrillaria* Sowerby 1803, *Fibulochlamys* A.I. Romero & Cabral 1989, *Fibulocoela* Nag Raj 1978, *Fibulotaeniella* Marvanová & Bär. 1988, *Geotrichopsis* Tzean & Estey 1991, *Gloeoradulum* Rick 1959, *Gloeosynnema* Seifert & G. Okada 1988, *Glomerulomyces* A.I. Romero & S.E. López 1989, *Glutinoaggar* Sivan. & Watling 1980, *Granulina* Velen. 1947, *Granulocystis* Hjortstam 1986 (= *Odonticium*), *Heterobasidium* Masee 1889, *Hyphobasidiofera* K. Matsush. & Matsush. 1996, *Hypolyssus* Pers. 1825, *Intextomyces* J. Erikss. & Ryvarden 1976, *Jacobia* Arnaud 1952, *Jacobia* Contu 1998 (= *Contumyces*), Leifia Ginns 1998 (= *Odonticium*), *Leptochaete* Zmitr. & Spirin 2006, *Loreleia* Redhead, Moncalvo, Vilgalys & Lutzoni 2002, *Masseerina* Lloyd 1920, *Minimedusa* Weresub & P.M. LeClair 1971, *Minostrocyta* Hjortstam & Ryvarden 2001, *Mycodendron* Masee 1891, *Myriococcum* Fr. 1823, *Myxodochium* Arnaud 1952, *Nostoclavus* Paulet 1791, *Nyctalina* Arnaud 1952, *Odonticium* Parmasto 1968, *Oxyporus* (Bourdot & Galzin) Donk 1933, *Pagidospora* Drechsler 1960, *Paulia* Lloyd 1916 (= *Xenosoma*), *Peniophorella* P. Karst. 1889, *Phlegmatium* Fr. 1819, *Pilacre* Fr. 1829, *Pneumatospora* B. Sutton, Kuthub. & Muid 1984, *Pseudasterodon* Rick 1959, *Pycnovellomyces* R.F. Castañeda 1987, *Pyrisperma* Raf. 1808, *Repetobasidium* J. Erikss. 1958, *Resinicium* Parmasto 1968, *Rickenella* Raithel. 1973, *Riessia* Fresen. 1852, *Riessiella* Jülich 1985, *Rimella* Raf. 1819, *Skvortzovia* Bononi & Hjortstam 1987, *Stereophyllum* P. Karst. 1889 (= *Cyphellostereum*), *Timgrovea* Bougher & Castellano 1993, *Titaeella* G. Arnaud ex K. Ando & Tubaki 1985, *Trechinothus* E.C. Martini & Trichies 2004, *Tricellulortus* Matsush. 1995 (= *Minimedusa*), *Tricladomyces* Nawawi 1985, *Trimitiella* Dhingra 2006, *Trimitiella* Dhingra 2008, *Tubulicrinopsis* Hjortstam & Kotir. 2007, *Volvycium* Raf. 1808, *Xanthoporus* Audet 2007, *Xenopus* Penz. & Sacc. 1901, *Xenosoma* Syd. & P. Syd. 1921

Ordem Auriculariales**Incertae sedis**

Aporpium Bondartsev & Singer 1944 (= *Protomerulius*), *Atractobasidium* G.W. Martin 1935 (= *Patouillardina*), *Basidiobendron* Rick 1938, *Bourdotia* (Bres.) Bres. & Torrend 1913, *Ceratosebacina* P. Roberts 1993, *Ductifera* Lloyd 1917, *Elmeria* Bres. 1912 (= *Elmerina*), *Elmerina* Bres. 1912, *Endoperplexa* P. Roberts 1993, *Gloeosebacina* Neuhoff 1924 (= *Stypella*), *Gloeotromera* Ervin 1956 (= *Ductifera*), *Guepinia* Fr. 1825, *Gyrocephalus* Bref. 1888 (= *Guepinia*), *Hauerslevia* P. Roberts 1998, *Heteroacanthella* Oberw. 1990, *Heterochaetella* (Bourdot) Bourdot & Galzin 1928 (= *Stypella*), *Heteromyces* L.S. Olive 1957 (= *Oliveonia*), *Heterorepetobasidium* Chee J. Chen & Oberw. 2002, *Heteroscypha* Oberw. & Agerer 1979, *Hydnogloea* Curr. 1871 (= *Pseudohydnum*), *Metabourdotia* L.S. Olive 1957, *Microsebacina* P. Roberts 1993, *Monosporonella* Oberw. & Ryvarden 1991 (= *Oliveonia*), *Oliveonia* Donk 1958, *Oliveorhiza* P. Roberts 1998, *Patouillardina* Bres. 1906, *Phlogiotis* Quél. 1886 (= *Guepinia*), *Polyozus* P. Karst. 1881 (= *Tremellodendropsis*), *Protodaedalea* Imazeki 1955, *Protodontia* Höhn. 1907 (= *Stypella*), *Protograndina* Rick 1933 (= *Patouillardina*), *Protohydnum* Möller 1895, *Protomerulius* Möller 1895, *Protoradulum* Rick 1933, *Pseudohydnum* Rick 1904, *Pseudotremellodendron* D.A. Reid 1957 (= *Tremellodendropsis*), *Renatobasidium* Hauerslev 1993, *Sebacinaella* Hauerslev 1977 (= *Oliveonia*), *Serendipita* P. Roberts 1993, *Stypella* Möller 1895, *Tremellacantha* Jülich 1980, *Tremellodendropsis* (Corner) D.A. Crawford 1954, *Tremellodon* (Pers.) Fr. 1874 (= *Pseudohydnum*), *Tremiscus* (Pers.) Lév. 1846 (= *Guepinia*)

Auriculariaceae

Auricula Battarra ex Kuntze 1891 (= *Auricularia*), *Auricularia* Bull. ex Juss. 1789, *Auriculariella* (Sacc.) Clem. 1909 (= *Auricularia*), *Conchites* Paulet 1791 (= *Auricularia*), *Eichleriella* Bres. 1903, *Exidia* Fr. 1822, *Exidiopsis* (Bref.) Möller 1895, *Fibulosebacea* K. Wells & Raitv. 1987, *Heterochaete* Pat. 1892, *Hirneola* Fr. 1848 (= *Auricularia*), *Hirneolina* (Pat.) Bres. 1905 (= *Heterochaete*), *Myxarium* Wallr. 1833 (= *Exidia*), *Oncomyces* Klotzsch 1843 (= *Auricularia*), *Paraphelaria* Corner 1966, *Patila* Adans. 1763 (= *Auricularia*), *Pseudostypella* McNabb 1969, *Seismosarca* Cooke 1889 (= *Auricularia*), *Spicularia* Chevall. 1826 (= *Exidia*), *Tremellochaete* Raitv. 1964 (= *Exidia*), *Ulocolla* Bref. 1888 (= *Exidia*)

Ordem Cantharellales

Incertae sedis

Burgella Diederich & Lawrey 2007, *Malacodon* J. Bataille 1923, *Odontiochaete* Rick 1940, *Radulochaete* Rick 1940, *Stilbotulasnella* Oberw. & Bandoni 1982

Aphelariaceae

Aphelaria Corner 1950, *Phaeoaphelaria* Corner 1953, *Tumidapexus* D.A. Crawford 1954

Botryobasidiaceae

Acladium Link 1809, *Allescheriella* Henn. 1897, *Alysidium* Kunze 1816, *Botryobasidium* Donk 1931, *Botryohypochnus* Donk 1931 (= *Botryobasidium*), *Clinotrichum* Cooke 1871 (= *Acladium*), *Cyanohypha* Jülich 1982 (= *Botryobasidium*), *Haplotrichum* Link 1824 (= *Acladium*), *Sporocephalum* Chevall. 1826 (= *Acladium*), *Suillosporium* Pouzar 1958

Cantharellaceae

Actinodermium Nees 1816 (= *Craterellus*), *Alectorolophoides* Battarra ex Earle 1909 (= *Cantharellus*), *Cantharellus* Fr. 1821, *Chanterel* Adans. 1763 (= *Cantharellus*), *Craterellus* Pers. 1825, *Fungoidaster* P. Micheli 1729 (= *Craterellus*), *Goossensia* Heinem. 1958, *Hyponevris* Paulet 1808 (= *Cantharellus*), *Merulius* Haller ex Boehm. 1760 (= *Cantharellus*), *Parastereopsis* Corner 1976, *Pezicula* Paulet 1791 (= *Craterellus*), *Pseudocraterellus* Corner 1957 (= *Craterellus*), *Pterygellus* Corner 1966, *Sterbeekia* Dumort. 1822 (= *Craterellus*), *Trombetta* Adans. 1763 (= *Craterellus*)

Ceratobasidiaceae

Acanthellorhiza P. Roberts 1999, *Allosphaerium* Link 1826 (= *Rhizoctonia*), *Aquathanatephorus* C.C. Tu & Kimbr. 1978 (= *Thanatephorus*), *Bryochysium* Link 1833 (= *Rhizoctonia*), *Cejpomyces* Svrcek & Pouzar 1970 (= *Thanatephorus*), *Ceratobasidium* D.P. Rogers 1935, *Ceratoporia* Ryvarden & de Meijer 2002, *Ceratorhiza* R.T. Moore 1987, *Chrysorhiza* T.F. Andersen & Stalpers 1996, *Hydrasidium* Park.-Rhodes ex J. Erikss. & Ryvarden 1978 (= *Scotomyces*), *Koleroga* Donk 1958 (= *Ceratobasidium*), *Moniliopsis* Ruhland 1908 (= *Rhizoctonia*), *Oncobasidium* P.H.B. Talbot & Keane 1971 (= *Thanatephorus*), *Orcheomyces* Burgeff 1909 (= *Thanatephorus*), *Pellicularia* Cooke 1876 (= *Ceratobasidium*), *Rhizoctonia* DC. 1805, *Scotomyces* Jülich 1978, *Thanatephorus* Donk 1956, *Thanatophytum* Nees 1816 (= *Rhizoctonia*), *Tofispora* G. Langer 1994 (= *Thanatephorus*), *Uthatabasidium* Donk 1956 (= *Thanatephorus*), *Ypsilonidium* Donk 1972 (= *Thanatephorus*)

Clavulinaceae

Ceratella (Qué.) Bigeard & H. Guill. 1913 (cf. *Multiclavula*?), *Clavulicium* Boidin 1957, *Clavulina* J. Schröt. 1888, *Membranomyces* Jülich 1975, *Multiclavula* R.H. Petersen 1967, *Stichoramaria* Ulbr. 1928 (= *Clavulina*)

Hydnaceae

Bidonia Adans. 1763 (= *Hydnum*), *Burgoa* Goid. 1938, *Corallofungus* Kobayasi 1983, *Cystidioidendron* Rick 1943, *Dacrina* Fr. 1825, *Dentinum* Gray 1821 (= *Hydnum*), *Dicarphus* Raf. 1808 (= *Hydnum*), *Echinus* Haller 1768 (= *Hydnum*), *Erinaceus* Dill. ex Maratti 1822 (= *Hydnum*), *Galziniella* Parmasto 1968 (= *Sistotrema*), *Gloeomucro* R.H. Petersen 1980, *Heptasporium* Bref. 1908 (= *Sistotrema*), *Hydnotrema* Link 1833 (= *Sistotrema*), *Hydnum* L. 1753, *Hypothele* Paulet 1812 (= *Hydnum*), *Ingoldiella* D.E. Shaw 1972, *Osteomorpha* G. Arnaud ex Watling & W.B. Kendr. 1979, *Paullicorticium* J. Erikss. 1958, *Repetobasidiellum* J. Erikss. & Hjortstam 1981, *Sistotrema* Fr. 1821, *Sistotrema* Raf. 1820 (= *Sistotrema* Fr.), *Tyrodon* P. Karst. 1881 (= *Hydnum*), *Urnobasidium* Parmasto 1968 (= *Sistotrema*)

Tulasnellaceae

Epulorhiza R.T. Moore 1987, *Gloeotulasnella* Höhn. & Litsch. 1908 (= *Tulasnella*), *Muciporus* Juel 1897 (= *Tulasnella*), *Pachysterigma* Johan-Olsen ex Bref. 1888 (= *Tulasnella*), *Prototremella* Pat. 1888 (= *Tulasnella*), *Pseudotulasnella* Lowy 1964, *Tulasnella* J. Schröt. 1888

Ordem Corticiales

Corticaceae

Acantholichen P.M. Jørg. 1998, *Aleurocorticium* P.A. Lemke 1964 (= *Dendrothele*), *Ambivina* Katz 1974,

Amylobasidium Ginns 1988, *Auricula* Lloyd 1922 (= *Punctularia*), *Corticirama* Pilát 1957, *Corticium* Pers. 1794, *Cytidia* Quél. 1888, *Dendrocorticium* M.J. Larsen & Gilb. 1974, *Dendrodontia* Hjortstam & Ryvar den 1980, *Dendrophysellum* Parmasto 1968, *Dendrothele* Höhn. & Litsch. 1907, *Erythricium* J. Erikss. & Hjortstam 1970, *Galzinia* Bourdot 1922, *Hemmesomyces* Gilb. & Nakasone 2003, *Laeticorticium* Donk 1956 (= *Corticium*), *Laetisaria* Burds. 1979, *Leptocorticium* Hjortstam & Ryvar den 2002, *Licrostroma* P.A. Lemke 1964, *Limonomyces* Stalpers & Loer. 1982, *Lomatia* (Fr.) P. Karst. 1889 (= *Cytidia*), *Lomatina* P. Karst. 1892 (= *Cytidia*), *Lyomyces* P. Karst. 1882 (= *Corticium*), *Marchandiobasidium* Diederich & Schultheis 2003, *Marchandiomphalina* Diederich, Lawrey & Binder 2007, *Marchandiomyces* Dieder. & D. Hawksw. 1990, *Matula* Masee 1888 (anamorfos de *Cytidia*, classificados nas Russulales, Stereaceae), *Melzerodontia* Hjortstam & Ryvar den 1980, *Michenera* Berk. & M.A. Curtis 1868, *Mutatoderma* (Parmasto) C.E. Gómez 1976, *Mycinema* C. Agardh 1824 (= *Corticium*), *Necator* Masee 1898, *Nothocorticium* Gresl. & Rajchenb. 1999, *Papyrodiscus* D.A. Reid 1979, *Phaeophlebia* W.B. Cooke 1956 (= *Punctularia*), *Punctularia* Pat. 1895, *Ripexicium* Hjortstam 1995, *Tretopileus* B.O. Dodge 1946, *Vuilleminia* Maire 1902, *Waitea* Warcup & P.H.B. Talbot 1962

Ordem Gloeophyllales

Incertae sedis

Pileodon P. Roberts & Hjortstam 1998

Gloeophyllaceae

Anisomyces Pilát 1940 (= *Gloeophyllum*), *Bonia* Pat. 1892, *Boreostereum* Parmasto 1968, *Campylomyces* Nakasone 2004, *Ceratophora* Humb. 1793 (= *Gloeophyllum*), *Chaetocarpus* P. Karst. 1889 (= *Veluticeps*), *Chaetodermella* Rauschert 1988, *Columnocystis* Pouzar 1959 (= *Veluticeps*), *Gloeophyllum* P. Karst. 1882, *Grandinioides* Banker 1906 (= *Mycobonia*), *Griseoporia* Ginns 1984 (= *Gloeophyllum*), *Hirneola* Fr. 1825 (= *Mycobonia*), *Lenzitina* P. Karst. 1889 (= *Gloeophyllum*), *Mycobonia* Pat. 1894, *Mycothele* Jülich 1976, *Osmoporus* Singer 1944, *Phaeocoriolellus* Kotl. & Pouzar 1957 (= *Gloeophyllum*), *Reisneria* Velen. 1922 (= *Gloeophyllum*), *Serda* Adans. 1763 (= *Gloeophyllum*), *Sesia* Adans. 1763 (= *Gloeophyllum*), *Veluticeps* (Cooke) Pat. 1894

Ordem Hymenochaetales

Incertae sedis

Atheloderma Parmasto 1968, *Caeruleomyces* Stalpers 2000, *Fibricium* J. Erikss. 1958, *Gyroflexus* Raith. 1981, *Physodontia* Ryvar den & H. Solheim 1977, *Sphagnomphalia* Redhead, Moncalvo, Vilgalys & Lutzoni 2002, *Subulicium* Hjortstam & Ryvar den 1979

Hymenochaetaceae

Aciella (P. Karst.) P. Karst. 1899, *Asterodon* Pat. 1894, *Aurificaria* D.A. Reid 1963, *Boudiera* Lázaro Ibiza 1916 (= *Phellinus*), *Botryodontia* (Hjortstam & Ryvar den) Hjortstam 1987, *Cerrenella* Murrill 1905 (= *Inonotus*), *Clavariachaeta* Lloyd 1922 (= *Clavariachaete*), *Clavariachaete* Corner 1950, *Coltricia* Gray 1821, *Coltriciella* Murrill 1904, *Coltriciopsis* Teixeira 1991 (= *Coltricia*), *Cryptoderma* Imazeki 1943 (= *Phylloporia*), *Cyclomyces* Kunze 1830, *Cyclomycetella* Murrill 1904 (= *Cyclomyces*), *Cycloporellus* Murrill 1907 (= *Cyclomyces*), *Cycloporus* Murrill 1904 (= *Coltricia*), *Daedaloides* Lázaro Ibiza 1916 (= *Phylloporia*), *Dichochaete* Parmasto 2001, *Erythromyces* Hjortstam & Ryvar den 1990, *Flaviporellus* Murrill 1905 (= *Inonotus*), *Fomitiporella* Murrill 1907 (= *Phellinus*), *Fomitiporia* Murrill 1907 (= *Phellinus*), *Fulvifomes* Murrill 1914 (= *Phellinus*), *Fuscoporella* Murrill 1907 (= *Phellinus*), *Fuscoporia* Murrill 1907 (= *Phellinus*), *Hydnochaete* Bres. 1896, *Hydnochaete* Peck 1897 (= *Asterodon*), *Hydnoporia* Murrill 1907 (= *Hydnochaete* Bres.), *Hymenochaete* Lév. 1846, *Hymenochaetella* P. Karst. 1889 (= *Hymenochaete*), *Inocutis* Fiasson & Niemelä 1984 (= *Inonotus*), *Inoderma* P. Karst. 1879 (= *Inonotus*), *Inodermus* Quél. 1886 (= *Inonotus*), *Inonotopsis* Parmasto 1973 (= *Inonotus*), *Inonotus* P. Karst. 1879, *Lazaroa* Gonz. Frag. (= *Phellinus*), *Leptochaete* Lév. 1846 (= *Hymenochaete*), *Loxophyllum* Klotzsch 1831 (= *Cyclomyces*), *Mensularia* Lázaro Ibiza 1916 (= *Inonotus*), *Mison* Adans. 1763 (= *Phellinus*), *Mucronoporus* Ellis & Everh. 1889 (= *Inonotus*), *Ochroporus* J. Schröt. 1888 (= *Phellinus*), *Ochroporellus* (Bondartseva & S. Herrera) Bondartseva & S. Herrera 1992 (= *Phellinus*), *Onnia* P. Karst. 1889 (= *Inonotus*), *Pelloporus* Quél. 1886 (= *Coltricia*), *Phaeohydnochaete* Lloyd 1916, *Phaeolopsis* Murrill 1905 (= *Phylloporia*), *Phaeoporus* J. Schröt. 1888 (= *Inonotus*), *Phellinidium* (Kotl.) Fiasson & Niemelä 1984, *Phellinus* Quél. 1886, *Phellopilus* Niemelä, Wagner & Fischer 2001, *Phylloporia* Murrill 1904, *Polystictoides* Lázaro Ibiza 1916 (= *Inonotus*), *Polystictus* Fr. 1851 (= *Coltricia*), *Porodaedalea* Murrill 1905 (= *Phellinus*), *Pseudochaete* T. Wagner & M. Fisch. 2002, *Pseudofomes* Lázaro Ibiza 1916 (= *Phellinus*), *Pseudoinonotus* T. Wagner & M. Fisch. 2001, *Pyropolyporus* Murrill 1903 (= *Phellinus*), *Pyrrhoderma* Imazeki 1966, *Scalaria* Lázaro Ibiza 1916 (= *Phellinus*), *Scindalma* Hill ex Kuntze 1898 (= *Phellinus*), *Stipitochaete* Ryvar den 1985 (= *Hymenochaete*), *Strilia* Gray 1821 (= *Coltricia*), *Volvopolyporus* Lloyd ex Sacc. & Trotter 1912 (= *Coltricia*), *Xanthochrous* Pat. 1897 (= *Coltricia*), *Xanthoporia* Murrill 1916 (= *Inonotus*)

Schizoporaceae

Alutaceodontia (Parmasto) Hjortstam & Ryvar den 2002, *Basidioradulum* Nobles 1967, *Chaetoporellus* Bondartsev & Singer 1944 (= *Hyphodontia*), *Echinodia* Pat. 1919, *Echinoporia* Ryvar den 1980, *Fibrodontia* Parmasto 1968 (= *Hyphodontia*), *Hyphodontia* J. Erikss. 1958, *Kneiffiella* P. Karst. 1889 (= *Hyphodontia*), *Lagarobasidium* Jülich 1974 (= *Hyphodontia*), *Leucophellinus* Bondartsev & Singer 1944, *Odontiopsis* Hjortstam & Ryvar den 1980, *Oxyflavus* Ryvar den 1973 (= *Leucophellinus*), *Palifer* Stalpers & P.K. Buchanan 1991 (= *Hyphodontia*), *Paratrichaptum* Corner 1987, *Poriodontia* Parmasto 1982, *Rogersella* Liberta & A.J. Navas 1978, *Schizopora* Velen. 1922, *Xylodon* (Pers.) Gray 1821

Ordem Polyporales

Incertae sedis

Crustodontia Hjortstam & Ryvar den 2005, *Crystalllocystidium* (Rick) Rick 1940, *Globosomyces* Jülich 1980, *Globuliciopsis* Hjortstam & Ryvar den 2004, *Irpicochaete* Rick 1940, *Lepidostroma* Mägd. & S. Winkl. 1967, *Nigrohydnum* Ryvar den 1987, *Phlebiella* P. Karst. 1890, *Repetobasidiopsis* Dhingra & Avneet P. Singh 2006, *Repetobasidiopsis* Dhingra & Avneet P. Singh 2008, *Spongioides* Lázaro Ibiza 1916 (cf. *Heterobasidion annosum*)

Cystostereaceae

Cericium Hjortstam 1995, *Crustomyces* Jülich 1978, *Cystidiodontia* Hjortstam 1983, *Cystostereum* Pouzar 1959, *Parvobasidium* Jülich 1975, *Parvodontia* Hjortstam & Ryvar den 2004

Fomitopsidaceae

Agaricon Tourn. ex Adans. 1763 (= *Fomitopsis*), *Agarico-pulpa* Paulet 1793 (= *Fomitopsis*), *Agarico-suber* Paulet 1793 (= *Daedalea*), *Agaricum* Paulet 1812 (= *Fomitopsis*), *Agaricum* P. Micheli ex Maratti 1822 (= *Fomitopsis*), *Agaricus* Murrill 1905 (= *Daedalea*), *Amylocystis* Bondartsev & Singer 1944, *Anomoloma* Niemelä & K.H. Larss. 2007, *Anomoporia* Pouzar 1966, *Antrodia* P. Karst. 1879, *Aurantiporellus* Murrill 1905 (= *Pycnoporellus*), *Auriporia* Ryvar den 1973, *Buglossoporus* Kotl. & Pouzar 1966, *Cartilosoma* Kotl. & Pouzar 1958 (= *Antrodia*), *Ceriumyces* Corda 1837 (= *Ptychogaster*), *Choriphyllum* Velen. 1922 (= *Phaeolus*), *Cladoporus* (Pers.) Chevall. 1826 (= *Laetiporus*), *Climacocystis* Kotl. & Pouzar 1958, *Coriollarius* Murrill 1905 (= *Antrodia*), *Dacryobolus* Fr. 1849, *Daedalea* Pers. 1801, *Donkioporia* Kotl. & Pouzar 1973, *Fomitella* Murrill 1905, *Fomitopsis* P. Karst. 1881, *Gilbertsonia* Parmasto 2001, *Gloeocystidium* P. Karst. 1889 (= *Dacryobolus*), *Hemidiscia* Lázaro Ibiza 1916 (= *Postia*), *Ischnoderma* P. Karst. 1879, *Laetiporus* Murrill 1904, *Laricifomes* Kotl. & Pouzar 1957 (= *Fomitopsis*), *Lasiochlaena* Pouzar 1990, *Miainomyces* Corda 1833 (= *Sporotrichum*), *Neolentiporus* Rajchenb. 1995, *Osteina* Donk 1966 (= *Postia*), *Paramyces* Oehm 1937 (= *Ptychogaster*), *Parmastomyces* Kotl. & Pouzar 1964, *Phaeodaedalea* M. Fidalgo 1962 (= *Daedalea*), *Phaeolus* (Pat.) Pat. 1900, *Pilatoporus* Kotl. & Pouzar 1990 (= *Fomitopsis*), *Piptoporus* P. Karst. 1881, *Placoderma* (Ricken) Ulbr. 1928 (= *Piptoporus*), *Polyporus* Pers. 1821 (= *Laetiporus*), *Polyporus* (Pers.) Gray 1821 (= *Laetiporus*), *Postia* Fr. 1874, *Pseudophaeolus* Ryvar den 1975 (= *Laetiporus*), *Ptychogaster* Corda 1838, *Pycnoporellus* Murrill 1905, *Rhodofomes* Kotl. & Pouzar 1990 (= *Fomitopsis*), *Romellia* Murrill 1904 (= *Phaeolus*), *Spelaomyces* Fresen. 1863 (= *Daedalea*), *Spongiosus* Lloyd ex Torrend 1920 (= *Phaeolus*), *Spongiporus* Murrill 1905 (= *Postia*), *Sporotrichum* Link 1809, *Strigalia* Adans. 1763 (= *Daedalea*), *Ungularia* Lázaro Ibiza 1916 (= *Piptoporus*), *Xylostroma* Tode 1790 (= *Daedalea*)

Ganodermataceae

Amauroderma Murrill 1905, *Amauroderma* (Pat.) Torrend 1920 (= *Amauroderma* Murrill), *Dendrophagus* Murrill 1905 (= *Ganoderma*), *Elfvigia* P. Karst. 1889 (= *Ganoderma*), *Friesia* Lázaro Ibiza 1916 (= *Ganoderma*), *Ganoderma* P. Karst. 1881, *Haddowia* Steyaert 1972, *Humphreya* Steyaert 1972, *Lazulinospora* Burds. & M.J. Larsen 1974 (= *Amauroderma*), *Magoderma* Steyaert 1972 (= *Amauroderma*), *Tomophagus* Murrill 1905 (= *Ganoderma*), *Trachyderma* (Imazeki) Imazeki 1952 (= *Ganoderma*), *Whitfordia* Murrill 1908 (= *Amauroderma*)

Grammotheleaceae

Theleporus Fr. 1847

Limnoperdaceae

Limnoperdon G.A. Escobar 1976

Meripilaceae

Cautinia Maas Geest. 1967 (= *Grifola*), *Cladodendron* Lázaro Ibiza 1916 (= *Grifola*), *Cladomeris* Qué. 1886 (= *Grifola*), *Flabellopilus* Kotl. & Pouzar 1957 (= *Meripilus*), *Grifola* Gray 1821, *Henningsia* A. Möller 1895, *Hydnopolyporus* D.A. Reid 1962, *Leucofomes* Kotl. & Pouzar 1957 (= *Rigidoporus*), *Meripilus* P. Karst. 1882, *Merisma* (Fr.) Gillet 1878 (= *Grifola*), *Physisporinus* P. Karst. 1889, *Polypilus* P. Karst. 1881 (= *Grifola*), *Porotheleum* Fr. 1818, *Rigidoporus* Murrill 1905, *Sporotrichopsis* Stalpers 2000, *Stromatoscypha* Donk 1951 (= *Porotheleum*)

Meruliaceae

Abortiporus Murrill 1904, *Acia* P. Karst. 1879 (= *Mycoacia*), *Actinostroma* Klotzsch 1843 (= *Cymatoderma*), *Aegerita* Pers. 1801, *Aegeritopsis* Höhn. 1903 (= *Aegerita*), *Amaurohydnum* Jülich 1978, *Amauromyces* Jülich 1978, *Aquascypha* D.A. Reid 1965, *Aschersonia* Endl. 1842 (= *Junghuhnia*), *Baeostratoporus* Bondartsev & Singer 1944 (= *Flaviporus*), *Beccaria* Massee 1892 (= *Cymatoderma*), *Beccariella* Ces. 1879 (= *Cymatoderma*), *Bjerkandera* P. Karst. 1879, *Bulbillomyces* Jülich 1974, *Bornetina* L. Mangin & Viala 1903 (= *Diacanthodes*), *Cabalodontia* Piatek 2004, *Caloporia* P. Karst. 1893 (= *Phlebia*), *Caloporus* P. Karst. 1881 (= *Phlebia*), *Castanoporus* Ryvarden 1991, *Ceraceohydnum* Jülich 1978 (= *Mycoaciella*), *Cerocorticius* Henn. 1900, *Chaetoporus* P. Karst. 1890 (= *Junghuhnia*), *Chrysoderma* Boidin & Gilles 1991, *Cladoderis* Pers. ex Berk. 1842 (= *Cymatoderma*), *Columnodontia* Jülich 1979, *Conohypha* Jülich 1975, *Coralloderma* D.A. Reid 1965, *Crocysporium* Corda 1837 (= *Aegerita*), *Crustoderma* Parmasto 1968, *Cyanodontia* Hjortstam 1987, *Cymatoderma* Jungh. 1840, *Dermosporium* Link 1815 (= *Aegerita*), *Diacanthodes* Singer 1945, *Etheiron* Banker 1902 (= *Steccherinum*), *Flaviporus* Murrill 1905, *Flavodon* Ryvarden 1973 (= *Irpex*), *Gelatoporia* Niemelä 1985, *Gloeohypochnicium* (Parmasto) Hjortstam 1987 (= *Hypochnicium*), *Gloeoporus* Mont. 1842, *Gyrophanopsis* Jülich 1979, *Heteroporus* Lázaro Ibiza 1916 (= *Abortiporus*), *Hydnellum* P. Karst. 1896 (= *Hyphoderma*), *Hydnophlebia* Parmasto 1967, *Hyphoderma* Wallr. 1833, *Hyphodermopsis* Jülich 1982 (= *Gyrophanopsis*), *Hyphodontiastra* Hjortstam 1999, *Hypochnicium* J. Erikss. 1958, *Irpex* Fr. 1828, *Irpicius* Bref. 1912 (= *Abortiporus*), *Jacksonomyces* Jülich 1979 (= *Phlebia*), *Junghuhnia* Corda 1842, *Kneiffia* Fr. 1836 (= *Hyphoderma*), *Kneiffiella* Underw. 1897 (= *Hyphoderma*), *Lamelloporus* Ryvarden 1987, *Laschia* Jungh. 1838 (= *Junghuhnia*), *Leptodon* Qué. 1886 (= *Steccherinum*), *Lilaceophlebia* (Parmasto) Spirin & Zmitrovich 2004, *Loweomyces* (Kotl. & Pouzar) Jülich 1982 (= *Abortiporus*), *Lyomyces* P. Karst. 1881 (= *Hyphoderma*), *Merulius* Fr. 1821 (= *Phlebia*), *Metulodontia* Parmasto 1968 (= *Hyphoderma*), *Metuloidea* G. Cunn. 1965 (= *Junghuhnia*), *Mycoacia* Donk 1931, *Mycoaciella* J. Erikss. & Ryvarden 1978, *Mycoleptodon* Pat. 1897 (= *Steccherinum*), *Mycoleptodonoides* M.I. Nikol. 1952, *Mycorrhaphium* Maas Geest. 1962, *Myriadoporus* Peck 1884 (= *Bjerkandera*), *Neokneiffia* Sacc. 1898 (= *Hyphoderma*), *Nodotia* Hjortstam 1987 (= *Hypochnicium*), *Odontia* Fr. 1835 (= *Steccherinum*), *Odontina* Pat. 1887 (= *Steccherinum*), *Oxydonia* L.W. Mill. 1933 (= *Sarcodontia*), *Phlebia* Fr. 1821, *Pirex* Hjortstam & Ryvarden 1985, *Podoscypha* Pat. 1900, *Pseudolagarobasidium* J.C. Jang & T. Chen 1985 (= *Radulodon*), *Pycnodon* Underw. 1898 (= *Hyphoderma*), *Ricnophora* Pers. 1825 (= *Phlebia*), *Radulodon* Ryvarden 1972, *Sarcodontia* Schulzer 1866, *Scopuloides* (Massee) Höhn. & Litsch. 1908, *Spathulina* Pat. 1900 (= *Irpex*), *Steccherinum* Gray 1821, *Stegiakantha* Maas Geest. 1966, *Stereogloeocystidium* Rick 1940 (= *Podoscypha*), *Stereopsis* D.A. Reid 1965, *Trabecularia* Bonord. 1857 (= *Phlebia*), *Uncobasidium* Hjortstam & Ryvarden 1978

Phanerochaetaceae

Amethicium Hjortstam 1983, *Antrodiella* Ryvarden & I. Johans. 1980, *Australicium* Hjortstam & Ryvarden 2002, *Australohydnum* Jülich 1978, *Byssomerulius* Parmasto 1967, *Candelabrochaete* Boidin 1970, *Ceraceomerulius* (Parmasto) J. Erikss. & Ryvarden 1973 (= *Byssomerulius*), *Ceraporus* Bondartsev & Singer 1941 (= *Ceriporia*), *Ceriporia* Donk 1933, *Ceriporiopsis* Domanski 1963, *Climacodon* P. Karst. 1881, *Corticium* Fr. 1835 (= *Phanerochaete*), *Donkia* Pilát 1937 (= *Climacodon*), *Efibula* Sheng H. Wu 1990 (= *Phanerochaete*), *Grandiniella* P. Karst. 1895 (= *Phanerochaete*), *Hjortstamia* Boidin & Gilles 2003, *Hyphodermella* J. Erikss. & Ryvarden 1976, *Inflatostereum* D.A. Reid 1965, *Membranicium* J. Erikss. 1958 (= *Phanerochaete*), *Meruliporia* Murrill 1942 (= *Meruliopsis*), *Meruliopsis* Bondartsev 1959, *Phanerochaete* P. Karst. 1889, *Phlebiopsis* Jülich 1978, *Porostereum* Pilát 1936, *Porpomyces* Jülich 1982 (= *Ceriporiopsis*), *Pouzaroporia* Vampola 1992 (= *Ceriporiopsis*), *Pulcherricium* Parmasto 1968, *Rhizochaete* Gresl., Nakasone & Rajchenb. 2004, *Roseograndinia* Hjortstam & Ryvarden 2005, *Terana* Adans. 1763, *Xerocarpus* P. Karst. 1881 (= *Phanerochaete*)

Polyporaceae

Abundisporus Ryvarden 1999, *Agarico-igniarius* Paulet 1793 (= *Fomes*), *Amyloporia* Singer 1944, *Amyloporiella* A. David & Tortic 1984, *Apoxona* Donk 1969 (= *Hexagonia*), *Artolenzites* Falck 1909 (= *Trametes*), *Asterochaete* (Pat.) Bondartsev & Singer 1941 (= *Echinochaete*), *Atroporus* Ryvarden 1973 (= *Polyporus*), *Aurantiporus* Murrill 1905, *Australoporus* P.K. Buchanan & Ryvarden 1988, *Austrolentinus* Ryvarden 1991, *Bresadolina* Speg. 1883 (= *Polyporus*), *Bulliardia* Lázaro Ibiza 1916 (= *Cerrena*), *Cellularia* Bull. 1788 (= *Trametes*), *Ceriporus* Qué. 1886 (= *Polyporus*), *Cerrena* Gray 1821, *Cinereomyces* Jülich 1982, *Coriolopsis* Murrill 1905, *Coriolus* Qué. 1886 (= *Trametes*), *Cryptomphalina* R. Heim 1966, *Cryptoporus* (Peck) Shear 1902, *Cubamyces* Murrill 1905 (= *Trametes*), *Cyanosporus* McGinty 1909 (= *Polyporus*), *Cystidiophorus* Bondartsev & Ljub. 1963, *Cystostiptoporus* Dhanda & Ryvarden 1975 (= *Microporellus*), *Daedaleopsis* J. Schröt. 1888, *Datronia* Donk 1967, *Dendrochaete* G. Cunn. 1965 (= *Echinochaete*), *Dendropolyporus* (Pouzar) Jülich 1982 (= *Polyporus*), *Dentocorticium* (Parmasto) M.J.

Larsen & Gilb. 1974, *Dextrinosporium* Bondartsev 1972 (= *Perenniporia*), *Dichomitus* D.A. Reid 1965, *Digitellus* Paulet 1791 (= *Lentinus*), *Diplomitoporus* Domanski 1970, *Earliella* Murrill 1905, *Echinochaete* D.A. Reid 1963, *Elfvingiella* Murrill 1914 (= *Fomes*), *Emmia* Zmitr., Spirin & Malysheva 2006, *Epithele* (Pat.) Pat. 1900, *Epithelopsis* Jülich 1976, *Erastia* Niemelä & Kinnunen 2005, *Fabisporus* Zmitrovich 2001, *Faerberia* Pouzar 1981, *Favolus* P. Beauv. 1805, *Favolus* Fr. 1828 (= *Polyporus*), *Fibroporia* Parmasto 1968 (= *Poria*), *Flabellophora* G. Cunn. 1965, *Fomes* (Fr.) Fr. 1849, *Funalia* Pat. 1900 (= *Trametes*), *Fuscocerrena* Ryvarden 1982, *Gemmularia* Raf. ex Steud. 1824 (= *Pachyma*) *Globifomes* Murrill 1904, *Grammothele* Berk. & M.A. Curtis 1868, *Grammothelopsis* Jülich 1982, *Hansenia* P. Karst. 1879 (= *Trametes*), *Hapalopilus* P. Karst. 1881, *Haploporus* Bondartsev & Singer 1944, *Haploporus* Bondartsev 1953 (= *Haploporus* Bondartsev & Singer), *Heliocybe* Redhead & Ginns 1985 (= *Neolentinus*), *Hexagonia* Pollini 1816 (= *Polyporus*), *Hexagonia* Fr. 1835, *Hirschioporus* Donk 1933 (= *Trichaptum*), *Hornodermoporus* Teixeira 1993 (= *Perenniporia*), *Hymenogramme* Mont. & Berk. 1844, *Irpiciporus* Murrill 1905 (= *Spongipellis*), *Incrustoporia* Domanski 1963 (= *Skeletocutis*), *Laccocephalum* McAlpine & Tepper 1895, *Laetifomes* Hattori 2001, *Lentinopanus* Pilát 1941 (= *Panus*), *Lentinus* Fr. 1825, *Lentodiellum* Murrill 1915 (= *Lentinus*), *Lentodium* Morgan 1895 (= *Lentinus*), *Lentus* Lloyd ex Torrend 1920 (= *Polyporus*), *Lenzites* Fr. 1836, *Leptopora* Raf. 1808 (= *Poria*), *Leptoporellus* Spirin 2001, *Leptoporus* Quél. 1886, *Leptotrimitus* Pouzar 1966 (= *Skeletocutis*), *Leucolenzites* Falck 1909 (= *Lenzites*), *Leucoporus* Quél. 1886 (= *Polyporus*), *Licentia* Pilát 1940 (= *Lopharia*), *Lignosus* Lloyd ex Torrend 1920, *Lithopolyporales* R.K. Kar, N. Sharma, A. Agarwal & R. Kar 2003, *Lloydella* Bres. 1901 (= *Lopharia*), *Lopharia* Kalchbr. & MacOwan 1881, *Loweporus* J.E. Wright 1976 (= *Perenniporia*), *Macrohyporia* I. Johans. & Ryvarden 1979, *Macroporia* Johanson & Ryvarden 1979, *Megasporoporia* Ryvarden & J.E. Wright 1982, *Melanoporella* Murrill 1907 (= *Nigrofomes*), *Melanoporia* Murrill 1907 (= *Nigrofomes*), *Melanopus* Pat. 1887 (= *Polyporus*), *Merulioporia* Bondartsev & Singer 1943 (= *Poria*), *Microporellus* Murrill 1905, *Microporus* P. Beauv. 1805, *Mollicarpus* Ginns 1984, *Mycelithe* Gasp. 1841, *Navisporus* Ryvarden 1980, *Neolentinus* Redhead & Ginns 1985, *Nigrofomes* Murrill 1904, *Nigroporus* Murrill 1905, *Oligoporus* Bref. 1888, *Pachykytospora* Kotl. & Pouzar 1963, *Pachyma* Fr. 1822, *Panus* Fr. 1838, *Perenniporia* Murrill 1942, *Perenniporiella* Decock & Ryvarden 2003, *Persooniana* Britzelm. 1897 (= *Tyromyces*), *Petaloides* Lloyd ex Torrend 1920 (= *Polyporus*), *Phaeotrametes* Lloyd ex J.E. Wright 1966, *Pherima* Raf. 1819 (= *Hexagonia*), *Phorima* Raf. 1830 (= *Hexagonia*), *Phyllodontia* P. Karst. 1883 (= *Cerrena*), *Physisporus* Chevall. 1826 (= *Poria*), *Piloporia* Niemelä 1982, *Placodes* Quél. 1886 (= *Fomes*), *Pocillaria* P. Browne 1756 (= *Lentinus*), *Podofomes* Pouzar 1966, *Podoporia* P. Karst. 1892 (= *Oligoporus*), *Pogonomycetes* Murrill 1904 (= *Hexagonia*), *Polyporellus* P. Karst. 1879 (= *Polyporus*), *Polyporus* P. Micheli ex Adans. 1763, *Poria* Pers. 1794, *Poria* Adans. 1763 (= *Polyporus*), *Poria* P. Browne 1756 (= *Porogramme*), *Porogramme* (Pat.) Pat. 1900, *Poronidulus* Murrill 1904, *Poroptycha* Beck 1888 (= *Poria*), *Pseudofavolus* Pat. 1900, *Pseudopiptoporus* Ryvarden 1980, *Pseudotrametes* Bondartsev & Singer 1944 (= *Trametes*), *Pycnoporus* P. Karst. 1881, *Pyrofomes* Kotl. & Pouzar 1964, *Raduliporus* Spirin & Zmitr. 2006, *Rhodonina* Niemelä 2005 (cf. *Postia*), *Riopa* D.A. Reid 1969 (= *Poria*), *Roseofavolus* T. Hatt. 2003 (cf. *Grifola*), *Royoporus* A.B. De 1996, *Rubroporus* Log.-Leite, Ryvarden & Groposo 2002, *Rugosaria* Raf. 1833 (= *Pachyma*), *Ryvardenia* Rajchenb. 1994, *Sarcoporia* P. Karst. 1894 (= *Hapalopilus*), *Scenidium* (Klotzsch) Kuntze 1898 (= *Hexagonia*), *Sclerodepsis* Cooke 1890 (= *Trametes*), *Sistotrema* Pers. 1794 (= *Cerrena*), *Skeletocutis* Kotl. & Pouzar 1958, *Skeletohydnum* Jülich 1979, *Somion* Adans. 1763 (= *Spongipellis*), *Sparsitubus* L.W. Hsu & J.D. Zhao 1980, *Spongipellis* Pat. 1887, *Stiptophyllum* Ryvarden 1973, *Strangulidium* Pouzar 1967 (= *Oligoporus*), *Thermophymatospora* Udagawa, Awao & Abdullah 1986, *Thwaitesiella* Massee 1892 (= *Lopharia*), *Tinctoporellus* Ryvarden 1979, *Tinctoporia* Murrill 1907 (= *Porogramme*), *Tomentoporus* Ryvarden 1973 (= *Microporus*), *Trametella* Pinto-Lopes 1952 (= *Coriolopsis*), *Trametes* Fr. 1836, *Trametopsis* Tomšovský 2008, *Trichaptum* Murrill 1904, *Truncospora* Pilát ex Pilát 1953 (= *Perenniporia*), *Tuberaster* Boccone 1697 (= *Polyporus*), *Tucahus* Raf. 1830 (= *Pachyma*), *Tyromyces* P. Karst. 1881, *Ungulina* Pat. 1900 (= *Fomes*), *Vanderbylia* D.A. Reid 1973, *Velolentinus* Overeem 1927 (= *Panus*), *Wolfiporia* Ryvarden & Gilb. 1984, *Xerotinus* Rchb. 1828 (= *Xerotus*), *Xerotus* Fr. 1828, *Xylometron* Paulet 1812 (= *Pycnoporus*), *Xylophilus* P. Karst. 1882 (= *Fomes*)

Sparassidaceae

Masseola Kuntze 1891 (= *Sparassis*), *Sparassiella* Schwarzman 1964, *Sparassis* Fr. 1819

Tubulicrinaceae

Tubulicrinis Donk 1956

Xenasmataceae

Clitopilina Arnaud 1952, *Xenasma* Donk 1957, *Xenasmatella* Oberw. 1966, *Xenosperma* Oberw. 1966

Ordem Russulales

Incertae sedis

Aleurocystidiellum P.A. Lemke 1964, *Confertobasidium* Jülich 1972 (= *Scytinostromella*), *Gloeasterostroma* Rick 1938, *Gloeopeniophorella* Rick 1934, *Haloaleurodiscus* N. Maek., Suhara & K. Kinjo 2005, *Scopulodontia* Hjortstam 1998, *Scytinostromella* Parmasto 1968

Amylostereaceae

Amylostereum Boidin 1958, *Lloydellopsis* Pouzar 1959 (= *Amylostereum*), *Trichocarpus* P. Karst. 1889 (= *Amylostereum*)

Albatrellaceae

Albatrellopsis Teixeira 1993, *Albatrellus* Gray 1821, *Caloporus* Quél. 1886 (= *Albatrellus*), *Cremeogaster* Mattir. 1924 (= *Leucophleps*), *Jahnoporus* Nuss 1980, *Leucogaster* R. Hesse 1882, *Leucophleps* Harkn. 1899, *Mycolevis* A.H. Sm. 1965, *Ovinus* (Lloyd) Torrend 1920 (= *Albatrellus*), *Polyporoletus* Snell 1936, *Scutigera* Paulet 1793

Auriscalpiaceae

Amylonotus Ryvar den 1975, *Artomyces* Jülich 1982 (= *Clavicornia*), *Auriscalpium* Gray 1821, *Clavicornia* Doty 1947, *Dentipratulum* Domanski 1965, *Hemicybe* P. Karst. 1879 (= *Lentinellus*), *Lentinaria* Pilát 1941 (= *Lentinellus*), *Lentinellus* P. Karst. 1879, *Pleurodon* Quél. ex P. Karst. 1881 (= *Auriscalpium*), *Stalpersia* Parmasto 2001

Bondarzewiaceae

Amylaria Corner 1955, *Amyloporus* Ryvar den 1973, *Bondarzewia* Singer 1940, *Gloiodon* P. Karst. 1879, *Heterobasidium* Bref. 1888, *Leaia* Banker 1906 (= *Gloiodon*), *Murrillporus* Ryvar den 1985 (= *Heterobasidium*), *Rigidoporopsis* I. Johans. & Ryvar den 1979 (= *Amyloporus*), *Sclerodon* P. Karst. 1889 (= *Gloiodon*), *Stecchericum* D.A. Reid 1963, *Wrightoporia* Pouzar 1966

Echinodontiaceae

Echinodontium Ellis & Everh. 1900, *Hydnofomes* Henn. 1900 (= *Echinodontium*), *Hydnophysa* Clem. 1909 (= *Echinodontium*), *Laurilia* Pouzar 1959

Hericiaceae

Amylodontia M.I. Nikol. 1967 (= *Dentipellis*), *Creolophus* P. Karst. 1879, *Dentipellis* Donk 1962, *Dryodon* Quél. ex P. Karst. 1881 (= *Hericium*), *Friesites* P. Karst. 1879 (= *Hericium*), *Heridium* Pers. 1794, *Heridium* Fr. 1825 (= *Hericium* Pers.), *Hericius* Juss. 1789 (= *Hericium*), *Laxitextum* Lentz 1956, *Manina* Banker 1912 (= *Hericium*), *Martella* Adans. 1763 (= *Hericium*), *Martella* Endl. 1836 (= *Hericium*), *Medusina* Chevall. 1826 (= *Hericium*)

Hybogasteraceae

Hybogaster Singer 1964

Lachnocladiaceae

Asterostroma Masee 1889, *Asterostromella* Höhn. & Litsch. 1907 (= *Vararia*), *Dichantharellus* Corner 1966, *Dichopleuropus* D.A. Reid 1965, *Dichostereum* Pilát 1926, *Eriocladus* Lév. 1846 (= *Lachnocladium*), *Lachnocladium* Lév. 1846, *Scytinostroma* Donk 1956, *Stelligera* R. Heim ex Doty 1948 (= *Lachnocladium*), *Stereofomes* Rick 1928, *Vararia* P. Karst. 1898

Peniophoraceae

Amylofungus Sheng H. Wu 1996, *Cryptochaete* P. Karst. 1889 (= *Peniophora*), *Dendrophora* (Parmasto) Chamuris 1987, *Duportella* Pat. 1915, *Entomocorticium* H.S. Whitney, Bandoni & Oberw. 1987, *Gloeocystidiopsis* Jülich 1982 (= *Gloiothele*), *Gloeopeniophora* Höhn. & Litsch. 1907 (= *Peniophora*), *Gloiothele* Bres. 1920, *Megalocystidium* Jülich 1978 (= *Gloiothele*), *Peniophora* Cooke 1879, *Sterellum* P. Karst. 1889 (= *Peniophora*), *Vesiculomyces* E. Hagstr. 1977 (= *Gloiothele*)

Russulaceae

Arcangeliella Cavara 1900, *Boidinia* Stalpers & Hjortstam 1982, *Buchholtzia* Lohwag 1924 (= *Macowanites*), *Cystangium* Singer & A.H. Sm. 1960, *Dixophyllum* Earle 1909 (= *Russula*), *Elasmomyces* Cavara 1898 (= *Macowanites*), *Galorrheus* (Fr.) Fr. 1825 (= *Lactarius*), *Gastrolactarius* R. Heim ex J.M. Vidal 2005, *Gloeocybe* Earle 1909 (= *Lactarius*), *Gymnomyces* Masee & Rodway 1898, *Hypochoanum* Kalchbr. 1876 (= *Macowanites*), *Hypophyllum* Earle 1909 (= *Lactarius*), *Lactarellis* Earle 1909 (= *Russula*), *Lactaria* Pers. 1797 (= *Lactarius*), *Lactariella* J. Schröt. 1889 (= *Lactarius*), *Lactariopsis* Henn. 1901 (= *Lactarius*), *Lactarius* Pers. 1797, *Lactifluus* (Pers.) Roussel 1806 (= *Lactarius*), *Macowania* Kalchbr. ex Berk. 1876 (= *Macowanites*), *Macowanites* Kalchbr. 1882, *Martellia* Mattir. 1900

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(= Gymnomyces), *Multifurca* Buyck & V. Hofstetter 2008, *Omphalomyces* Battarra ex Earle 1909 (= *Russula*), *Phaeohygrocybe* Henn. 1901 (= *Russula*), *Pleurogala* Redhead & Norvell 1993 (= *Lactarius*), *Pseudoxenasma* K.H. Larss. & Hjortstam 1976, *Russula* Pers. 1796, *Russulina* J. Schröt. 1889 (= *Russula*), *Zelleromyces* Singer & A.H. Sm. 1960

Stephanosporaceae

Athelidium Oberw. 1966, *Cristinia* Parmasto 1968, *Cyanobasidium* Jülich 1979 (= *Lindtneria*), *Dacryobasidium* Jülich 1982 (= *Cristinia*), *Lindtneria* Pilát 1938, *Mayamontana* Castellano, Trappe & Lodge 2007, *Mycolindtneria* Rauschert 1988, *Stephanospora* Pat. 1914, *Sulphurina* Pilát 1953 (= *Lindtneria*)

Stereaceae

Acanthobasidium Oberw. 1966, *Acanthofungus* Sheng H. Wu, Boidin & C.Y. Chien 2000, *Acanthophysellum* Parmasto 1967, *Acanthophysium* (Pilát) G. Cunn. 1963, *Aleurobotrys* Boidin 1986, *Aleurocystis* Lloyd ex G. Cunn. 1956, *Aleurodiscus* Rabenh. ex J. Schröt. 1888, *Aleuromyces* Boidin & Gilles 2002, *Amylohyphus* Ryvarden 1978, *Amylosporomyces* S.S. Rattan 1977, *Chaetoderma* Parmasto 1968, *Conferticium* Hallenb. 1980, *Coniophorafomes* Rick 1934, *Dextrinocystidium* Sheng H. Wu 1996, *Gloeocystidiellum* Donk 1931, *Gloeodontia* Boidin 1966, *Gloeomyces* Sheng H. Wu 1996, *Gloeosoma* Bres. 1920 (= *Aleurodiscus*), *Haematostereum* Pouzar 1959 (= *Stereum*), *Matula* Massee 1888 (anamorfos de *Cytidia*, *Corticaceae*), *Nodularia* Peck 1872 (= *Aleurodiscus*), *Scotoderma* Jülich 1974, *Stereum* Pers. 1794, *Xylobolus* P. Karst. 1881

Ordem Sebaciales

Incertae sedis

Piriformospora Sav. Verma, Aj. Varma, Rexer, G. Kost & P. Franken 1998

Sebacinaceae

Atkinsonia Lloyd 1916 (= *Sebacina*), *Collo dendrum* Clem. 1909 (= *Tremellodendron*), *Craterocolla* Bref. 1888, *Cristella* Pat. 1887 (= *Sebacina*), *Ditangium* P. Karst. 1867, *Efibulobasidium* K. Wells 1975, *Opadorhiza* T.F. Andersen & R.T. Moore 1996, *Poroidea* Göttinger ex G. Winter 1884 (= *Craterocolla*), *Sebacina* Tul. & C. Tul. 1871, *Soppittiella* Massee 1892 (= *Sebacina*), *Tremellodendron* G.F. Atk. 1902, *Tremelloscypha* D.A. Reid 1979, *Tremellostereum* Ryvarden 1986

Ordem Thelephorales

Incertae sedis

Bubacia Velen. 1922, *Friesula* Speg. 1880, *Thelephorella* P. Karst. 1889

Bankeraceae

Bankera Coker & Beers ex Pouzar 1955, *Boletopsis* Fayod 1889, *Calodon* P. Karst. 1881 (= *Hydnellum*), *Corneroporus* Hattori 2001, *Hydnellum* P. Karst. 1879, *Phaeodon* J. Schröt. 1888 (= *Hydnellum*), *Phellodon* P. Karst. 1881, *Sarcodon* Qué. ex P. Karst. 1881

Thelephoraceae

Acrotamnium Nees 1816 (= *Tomentella*), *Amaurodon* J. Schröt. 1888, *Botryobasidium* Rick 1959, *Byssocristella* M.P. Christ. & J.E.B. Larsen 1970 (= *Tomentellopsis*), *Caldesiella* Sacc. 1877 (= *Tomentella*), *Cyphellina* Rick 1959 (= *Tomentella*), *Entolomina* Arnaud 1952, *Gymnoderma* Humb. 1793, *Hydnopsis* (J. Schröt.) Rea 1909 (= *Tomentella*), *Hypochnopsis* P. Karst. 1889, *Hypochnus* Fr. 1818 (= *Tomentella*), *Karstenia* Britzelm. 1897 (= *Tomentella*), *Lenzitella* Ryvarden 1991 (= *Lenzitopsis*), *Lenzitopsis* Malençon & Bertault 1963, *Merisma* Pers. 1797 (= *Thelephora*), *Odontia* Gray 1821 (= *Tomentella*), *Odontia* Pers. 1794, *Odontium* Raf. 1817 (= *Tomentella*), *Parahaplotrichum* W.A. Baker & Partridge 2001, *Phylacteria* (Pers.) Pat. 1887 (= *Thelephora*), *Phyllocarbon* Lloyd 1921 (= *Polyozellus*), *Pleurobasidium* Arnaud 1951, *Polyozellus* Murrill 1910, *Prillieuxia* Sacc. & P. Syd. 1899 (= *Tomentella*), *Pseudothlephora* Lloyd 1919 (= *Thelephora*), *Pseudotomentella* Svrček 1958, *Scyphopilus* P. Karst. 1881 (= *Thelephora*), *Skepperia* Berk. 1857, *Thelephora* Ehrh. ex Willd. 1787, *Thelophora* Clem. 1902 (= *Thelephora* Ehrh. ex Willd.), *Tomentella* Johan-Olsen 1888 (= *Tomentella* Pat.), *Tomentella* Pat. 1887, *Tomentellago* Hjortstam & Ryvarden 1988, *Tomentellastrum* Svrček 1958 (= *Tomentella*), *Tomentellina* Höhn. & Litsch. 1906 (= *Tomentella*), *Tomentellopsis* Hjortstam 1970

Ordem Trechisporales

Hydnodontaceae

Aegeritina Jülich 1984, *Brevicellicium* K.H. Larss. & Hjortstam 1978, *Cristelloporia* I. Johans. & Ryvarden 1979 (= *Trechispora*), *Dextrinocystis* Gilb. & M. Blackw. 1988, *Dextrinodontia* Hjortstam & Ryvarden 1980, *Echinotrema* Park.-Rhodes 1955 (= *Trechispora*), *Fibricellum* J. Erikss. & Ryvarden 1975 (= *Trechispora*), *Fibuloporia* Bondartsev & Singer 1944 (=

Trechispora), *Hydnodon* Banker 1913, *Litschauerella* Oberw. 1966, *Luellia* K.H. Larss. & Hjortstam 1974, *Pseudohydnium* Rick 1904 (= *Hydnodon*), *Sistotremastrum* J. Erikss. 1958, *Sistotremella* Hjortstam 1984, *Sphaerobasidium* Oberw. 1965, *Subulicystidium* Parmasto 1968, *Tomentella* P. Karst. 1889 (= *Trechispora*), *Trechispora* P. Karst. 1890, *Tubulicium* Oberw. 1965, *Tubulixenasma* Parmasto 1965 (= *Tubulicium*)

Subclasse Agaricomycetidae

Incertae sedis

Incertae sedis

Anixia Fr. 1819, *Atraporiella* Ryvarden 2007 *Asporothrichum* Link 1809, *Cora* Fr. 1825 (= *Dictyonema*), *Ceraceopsis* Hjortstam & Ryvarden 2007, *Coraemyces* Cif. & Tomas. 1954 (= *Dictyonema*), *Corella* Vain. 1890 (= *Dictyonema*), *Dichonema* Blume & T. Nees 1826 (= *Dictyonema*), *Dictyonema* C. Agardh ex Kunth 1822, *Dictyonematomyces* Cif. & Tomas. 1954 (= *Dictyonema*), *Grandinia* Fr. 1838, *Grandiniochaete* Rick 1940, *Gyrolophium* Kunze ex Krombh. 1831 (= *Dictyonema*), *Korupella* Hjortstam & P. Roberts 2000, *Laudatea* Johow 1884 (= *Dictyonema*), *Phlyctibasidium* Jülich 1974, *Rhipidonema* Mattir. 1881 (= *Dictyonema*), *Rhipidonematomyces* Cif. & Tomas. 1954 (= *Dictyonema*), *Rhizonema* Thwaites 1849 (= *Dictyonema*), *Taiwanoporia* T.T. Chang & W.N. Chou 2003, *Tuberculinia* Velen. 1922 (= *Grandinia*), *Wainiocora* Tomas. 1950 (= *Dictyonema*)

Ordem Agaricales

Incertae sedis

Acinophora Raf. 1808 *Actinophora* Merr. 1943, *Amanita* Adans. 1763, *Amogaster* Castellano 1995, *Anellaria* P. Karst. 1879 (= *Panaeolus*), *Brunneocorticius* S.H. Wu 2007, *Campanularius* Roussel 1806 (= *Panaeolus*), *Chalymmota* P. Karst. 1879 (= *Panaeolus*), *Cheilophlebium* Opiz & Gintl 1856 *Collyria* Fr. 1849, *Copelandia* Bres. 1912 (= *Panaeolus*), *Coprinarius* (Fr.) P. Kumm. 1871 (= *Panaeolus*), *Cribozpora* Pacioni & P. Fantini 2000 *Cycloderma* Klotzsch 1832 *Disporotrichum* Stalpers 1984, *Eriosperma* Raf. 1808, *Gramincola* Velen. 1947, *Hypomnema* Britzelm. 1883, *Laterradea* Raspail 1824, *Lepidella* E.-J. Gilbert 1925 (= *Amanita* Adans. 1763), *Mesophelliopsis* Bat. & A.F. Vital 1957, *Mycospongia* Velen. 1939, *Panaeolina* Maire 1933, *Panaeolus* (Fr.) Quél. 1872, *Phlebophyllum* R. Heim 1969 *Pilosace* (Fr.) Quél. 1873, *Plicatura* Peck 1872, *Plicaturopsis* D.A. Reid 1964, *Polygaster* Fr. 1823 *Rotula* Raf. 1815 *Sedecula* Zeller 1941 *Setchelliogaster* Pouzar 1958, *Stemastrum* Raf. 1808 *Stylobates* Fr. 1837

Agaricaceae

Abstoma G. Cunn. 1926, *Acutocapillitium* P. Ponce de León 1976, *Agaricus* L. 1753, *Allopsalliota* Nauta & Bas 1999, *Amanita* Dill. ex Boehm. 1760 (= *Agaricus*), *Amylrolepiota* Harmaja 2002, *Annularius* Roussel 1806 (= *Coprinus*), *Arachnion* Schwein. 1822, *Arachniopsis* Long 1917, *Araneosa* Long 1941, *Artymenium* Berk. ex E. Fisch. 1933 (= *Secotium*), *Attamyces* Kreisel 1972, *Barcheria* T. Lebel 2004, *Battarraeastrum* R. Heim & T. Herrera 1960 (= *Battarreoides*), *Battarraea* Pers. 1801, *Battarreoides* T. Herrera 1953, *Bovista* Pers. 1794, *Bovistaria* (Fr.) P. Karst. 1889 (= *Langermannia*), *Bovistella* Morgan 1892, *Bovistina* Long & Stouffer 1941 (= *Disciseda*), *Calbovista* Morse 1935, *Calbovista* Morse ex M.T. Seidl 1995, *Calvatia* Fr. 1849, *Calvatiella* C.H. Chow 1936 (= *Bovistella*), *Calvatiopsis* Hollós 1929, *Capillaria* Velen. 1947 (= *Lycoperdon*), *Catachyon* (Ehrenb. ex Fr.) Fr. 1832 (= *Podaxis*), *Catastoma* Morgan 1892 (= *Disciseda*), *Cauloglossum* Grev. 1823 (= *Podaxis*), *Cerophora* Raf. 1808 (= *Lycoperdon*), *Chainoderma* Massee 1890 (= *Podaxis*), *Chlamydopus* Speg. 1898, *Chamaemyces* Earle 1909, *Chitonia* (Fr.) P. Karst. 1879 (= *Clarkeinda*), *Chitoniella* Henn. 1898 (= *Clarkeinda*), *Chitonis* Clem. 1909 (= *Clarkeinda*), *Chlorolepiota* Sathe & S.D. Deshp. 1979, *Chlorophyllum* Massee 1898, *Chlorosperma* Murrill 1922 (= *Melanophyllum*), *Chlorospora* Massee 1898 (= *Melanophyllum*), *Clarkeinda* Kuntze 1891, *Clavogaster* Henn. 1896, *Coccobotrys* Boud. & Pat. 1900, *Constricta* R. Heim & Mel.-Howell 1965, *Coprinus* Pers. 1797, *Coprinusella* (Peck) Zerov 1979 (= *Coprinus*), *Crucibulum* Tul. & C. Tul. 1844, *Crucispora* E. Horak 1971, *Cyathia* P. Browne 1756 (= *Cyathus*), *Cyathodes* P. Micheli ex Kuntze 1891 (= *Cyathus*), *Cyathus* Haller 1768, *Cystoderma* Fayod 1889, *Cystodermella* Harmaja 2002, *Cystolepiota* Singer 1952, *Dendromyces* Libosch. 1810 (= *Battarraea*), *Disciseda* Czern. 1845, *Drosella* Maire 1935 (= *Chamaemyces*), *Echinoderma* (Locq. ex Bon) Bon 1991 (= *Lepiota*), *Endolepiotula* Singer 1963, *Endonevrum* Czern. 1845 (= *Mycenastrum*), *Endoptychum* Czern. 1845, *Enteromyxa* Ces. 1879 (= *Lycogalopsis*), *Ephemerocybe* Fayod 1869 (= *Coprinus*), *Eriosphaera* De Toni 1888 (= *Langermannia*), *Floccularia* Pouzar 1957, *Fungus* Adans. ex Kuntze 1898 (= *Agaricus*), *Fungus* Tourn. ex Adans. 1763 (= *Agaricus*), *Fusispora* Fayod 1889 (= *Lepiota*), *Gasterellopsis* Routien 1940, *Gastropila* Homrich & J.E. Wright 1973, *Glaucospora* Rea 1922 (= *Melanophyllum*), *Globaria* Quél. 1873 (= *Bovista*), *Glyptoderma* R. Heim & Perr.-Bertr. 1971, *Granularia* Roth 1791 (= *Nidularia*), *Gymnogaster* J.W. Cribb 1956, *Gyrophragmium* Mont. 1843, *Handkea* Kreisel 1989 (= *Calvatia*), *Heimiella* Boedijn 1951

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(= Heinemannomyces), *Heinemannomyces* Watling 1999, *Herculea* Fr. 1823 (= *Podaxis*), *Hiatulopsis* Singer & Grinling 1967, *Hippoperdon* Mont. 1842 (= *Calvatia*), *Holocotylon* Lloyd 1906, *Horakia* Oberw. 1976 (= *Verrucospora*), *Hymenagaricus* Heinem. 1981, *Hypoblema* Lloyd 1902 (= *Calvatia*), *Hypogaea* E. Horak 1964, *Hypophyllum* Paulet 1808 (= *Agaricus*), *Janauaria* Singer 1986, *Japonogaster* Kobayasi 1989, *Langermannia* Rostk. 1839, *Lanopila* Fr. 1848 (= *Langermannia*), *Lasiosphaera* Reichardt 1870 (= *Langermannia*), *Lepidotus* Clem. 1902 (= *Lepiota*), *Lepiota* (Pers.) Gray 1821, *Lepiotella* (E.-J. Gilbert) Konrad 1934 (= *Chamaemyces*), *Lepiotella* Rick 1938 (= *Volvolepiota*), *Lepiophyllum* Locq. 1942 (= *Leucocoprinus*), *Lepiotula* (Maire) Locq. ex E. Horak 1968 (= *Lepiota*), *Leucoagaricus* Locq. ex Singer 1948, *Leucoboldbitius* (J.E. Lange) Locq. 1952 (= *Leucocoprinus*), *Leucocoprinus* Pat. 1888, *Longia* Zeller 1943 (= *Longula*), *Longula* Zeller 1945, *Lycogalopsis* E. Fisch. 1886, *Lycoperdon* Pers. 1801, *Lycoperdopsis* Henn. 1899, *Macrolepiota* Singer 1948, *Mastocephalus* Battarra ex Kuntze 1891 (= *Leucocoprinus*), *Melanophyllum* Velen. 1921, *Metraria* Cooke & Massee 1891, *Metrodia* Raithelh. 1971, *Micropsalliota* Höhn. 1914, *Montagnea* Fr. 1836, *Montagnites* Fr. 1838 (= *Montagnea*), *Morganella* Zeller 1948, *Morobia* E. Horak 1979 (= *Lepiota*), *Mycenastrum* Desv. 1842, *Myces* Paulet 1808 (= *Agaricus*), *Mycocalia* J.T. Palmer 1961, *Neosecotium* Singer & A.H. Sm. 1960, *Nidula* V.S. White 1902, *Nidularia* Bull. 1791 (= *Cyathus*), *Nidularia* Fr. 1817, *Notholepiota* E. Horak 1971, *Omalycus* Raf. 1814 (= *Calvatia*), *Onchopus* P. Karst. 1879 (= *Coprinus*), *Pachyderma* Schulzer 1876 (= *Mycenastrum*), *Panaeolopsis* Singer 1969, *Peziza* L. 1753 (= *Cyathus*), *Phaeolepiota* Maire ex Konrad & Maubl. 1928, *Phaeopholiota* Locq. & Sarwal 1983, *Phlebonema* R. Heim 1929, *Phyllogaster* Pegler 1969, *Piemycus* Raf. 1813 (= *Bovista*), *Piesmycus* Raf. 1808 (= *Bovista*), *Pila* Speg. 1923 (= *Gastropila*), *Podaxis* Desv. 1809, *Polyplocium* Berk. 1843 (= *Gyrophrangium*), *Pratella* (Pers.) Gray 1821 (= *Agaricus*), *Priapus* Raf. 1808 (= *Lycoperdon*), *Psalliota* (Fr.) P. Kumm. 1871 (= *Agaricus*), *Pselliophora* P. Karst. 1879 (= *Coprinus*), *Pseudoauricularia* Kobayasi 1982, *Pseudocoprinus* Kühner 1928 (= *Coprinus*), *Pseudolycoperdon* Velen. 1947 (= *Bovista*), *Pulverolepiota* Bon 1993 (= *Cystolepiota*), *Queletia* Fr. 1872, *Rhacophyllum* Berk. & Broome 1871, *Rickella* Locq. 1952 (= *Volvolepiota*), *Ripartitella* Singer 1947, *Rugosospora* Heinem. 1973, *Sackea* Rostk. 1844 (= *Bovista*), *Schinzinia* Fayod 1889, *Schizostoma* Ehrenb. ex Lév. 1846, *Schulzeria* Bres. & Schulzer 1886 (= *Leucoagaricus*), *Schweinitzia* Grev. 1823 (= *Podaxis*), *Scoleciolepiota* Berk. 1843 (= *Arachnion*), *Secotium* Kunze 1840, *Sericeomyces* Heinem. 1978, *Singerina* Sathe & S.D. Deshp. 1981, *Smithiogaster* J.E. Wright 1975, *Smithiomyces* Singer 1944, *Sphaericeps* Welw. & Curr. 1868 (= *Battarraea*), *Stellifera* Léman 1824, *Sufa* Adans. 1763 (= *Lycoperdon*), *Termiticola* E. Horak 1979, *Tulasnodea* Fr. 1849 (= *Tulostoma*), *Tulostoma* Pers. 1794, *Utraria* Quél. 1873 (= *Lycoperdon*), *Vascellum* F. Smarda 1958, *Verrucospora* E. Horak 1967, *Volvolepiota* Singer 1959, *Xanthagaricus* (Heinem.) Little Flower, Hosag. & T.K. Abraham 1997, *Xerocoprinus* Maire 1907, *Zerovaemyces* Gorovij 1977 (= *Rhacophyllum*)

Amanitaceae

Agaricus Raf. 1830 (= *Amanita*), *Amanita* Pers. 1797, *Amanitaria* E.-J. Gilbert 1940 (= *Amanita*), *Amanitella* Earle 1909 (= *Amanita*), *Amanitella* Maire 1913 (= *Limacella*), *Amanitina* E.-J. Gilbert 1940 (= *Amanita*), *Amanitopsis* Roze 1876 (= *Amanita*), *Amarrendia* Bougher & T. Lebel 2002, *Amidella* E.-J. Gilbert 1940 (= *Amanita*), *Amplariella* E.-J. Gilbert 1940 (= *Amanita*), *Ariella* E.-J. Gilbert 1941 (= *Amanita*), *Aspidella* E.-J. Gilbert 1940 (= *Amanita*), *Boletium* Clem. 1909 (= *Amanita*), *Catatrama* Franco-Mol. 1991, *Gilbertia* Donk 1934 (= *Amanita*), *Leucomyces* Earle 1909 (= *Amanita*), *Limacella* Earle 1909, *Myxoderma* Fayod ex Kühner 1926 (= *Limacella*), *Pseudofarinaceus* Battarra ex Kuntze 1891 (= *Amanita*), *Torrendia* Bres. 1902, *Vaginarina* (Forq.) Sacc. 1887 (= *Amanita*), *Vaginarium* Roussel 1806 (= *Amanita*), *Vaginata* Nees 1816 (= *Amanita*), *Venenarius* Earle 1909 (= *Amanita*), *Volvella* E.-J. Gilbert & Beeli 1941 (= *Amanita*), *Volvoamanita* (Beck) E. Horak 1968 (= *Amanita*), *Volvoboletus* Henn. 1898 (= *Amanita*)

Bolbitiaceae

Acetabularia (Berk.) Massee 1893 (= *Cyphellopus*), *Agrogaster* D.A. Reid 1986, *Bolbitius* Fr. 1838, *Conocybe* Fayod 1889, *Cyphellopus* Fayod 1889, *Cyttarophyllopsis* R. Heim 1968, *Cyttarophyllum* (R. Heim) Singer 1936 (= *Galeropsis*), *Galerella* Earle 1909 (= *Conocybe*), *Galeropsis* Velen. 1930, *Gastrocybe* Watling 1968 (= *Galeropsis*), *Gymnoglossum* Massee 1891, *Pholiotella* Speg. 1889 (= *Conocybe*), *Pholiotina* Fayod 1889 (= *Conocybe*), *Pluteolus* (Fr.) Gillet 1876 (= *Bolbitius*), *Psammomyces* Lebedeva 1932 (= *Galeropsis*), *Pseudoconocybe* Hongo 1967 (= *Conocybe*), *Ptychella* Roze & Boud. 1879, *Rhodoarrhenia* Singer 1964, *Raddetes* P. Karst. 1887 (= *Conocybe*), *Tubariella* E. Horak & Hauskn. 2002, *Tubariopsis* R. Heim 1931, *Tympanella* E. Horak 1971, *Wielandomyces* Raithelh. 1988

Broomeiaceae

Broomeia Berk. 1844

Clavariaceae

Capitoclavaria Lloyd 1922 (= *Clavaria*), *Clavaria* Vaill. ex L. 1753, *Clavulinopsis* Overeem 1923, *Cornicularia* Bonord. 1851

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(= *Clavulinopsis*), *Donkella* Doty 1950 (= *Clavulinopsis*), *Holocoryne* (Fr.) Bonord. 1851 (= *Clavaria*), *Hyphodontiella* Å. Strid 1975, *Manina* Adans. 1763, *Mucronella* Fr. 1874, *Mucronia* Fr. 1849 (= *Mucronella*), *Myxomycidium* Massee 1901 (= *Mucronella*), *Podostrombium* Kunze ex Rchb. 1828, *Ramaria* Holmsk. 1790 (= *Clavulinopsis*), *Ramariopsis* (Donk) Corner 1950, *Scytinopogon* Singer 1945, *Setigeroclavula* R.H. Petersen 1988, *Stichoclavaria* Ulbr. 1928 (= *Clavaria*)

Cortinariaceae

Anamika K.A. Thomas, Peintner, M.M. Moser & Manim. 2002, *Bulbopodium* Earle 1909 (= *Cortinarius*), *Cereicium* Locq. 1979 (= *Cortinarius*), *Cortinomyces* Bougher & Castellano 1993 (= *Protoglossum*), *Cortinarius* (Pers.) Gray 1821, *Cribbea* A.H. Sm. & D.A. Reid 1962, *Cuphocybe* R. Heim 1951, *Cyanicium* Locq. 1979 (= *Cortinarius*), *Cystocybe* Velen. 1921 (= *Cystocybe*), *Dermocybe* (Fr.) Wünsche 1877 (= *Cortinarius*), *Descolea* Singer 1950, *Descomyces* Bougher & Castellano 1993, *Gomphos* Kuntze 1891 (= *Cortinarius*), *Hemistropharia* Jacobsson & E. Larss. 2007, *Hydrocybe* (Fr. ex Rabenh.) Wünsche 1877 (= *Cortinarius*), *Hydrocybium* Earle 1909 (= *Cortinarius*), *Hydrotelamonina* Rob. Henry 1957 (= *Cortinarius*), *Hygramaricium* Locq. 1979 (= *Cortinarius*), *Hygromyxiacium* Locq. 1979 (= *Cortinarius*), *Hymenangium* Klotzsch 1839 (= *Descomyces*), *Inoloma* (Fr.) Wünsche 1877 (= *Cortinarius*), *Leucopus* P. Kumm. 1871 (= *Cortinarius*), *Locellina* Gillet 1876 (= *Cortinarius*), *Mackintoshia* Pacioni & Sharp 2000, *Meliderma* Velen. 1920 (= *Cortinarius*), *Myxacium* (Fr.) P. Kumm. 1871 (= *Cortinarius*), *Myxopholis* Locq. 1979 (= *Cortinarius*), *Nanstelocephala* Oberw. & R.H. Petersen 1990, *Phaeocollybia* R. Heim 1931, *Phlegmacium* (Fr.) Wünsche 1877 (= *Cortinarius*), *Protoglossum* Massee 1891, *Pseudodescolea* Raithel. 1980 (= *Descola*), *Pyrrhoglossum* Singer 1944, *Quadrispora* Bougher & Castellano 1993, *Quercella* Velen. 1921 (= *Phaeocollybia*), *Rapacea* E. Horak 1999, *Raphanozon* P. Kumm. 1871 (= *Cortinarius*), *Rozites* P. Karst. 1879, *Sericeocybe* Rob Henry 1993 (= *Cortinarius*), *Sphaerotrachys* Fayod 1889 (= *Cortinarius*), *Squamaphlegma* Locq. 1979 (= *Cortinarius*), *Stephanopus* M.M. Moser & E. Horak 1975, *Telamonina* (Fr.) Wünsche 1877 (= *Cortinarius*), *Thaxterogaster* Singer 1951, *Volvigerum* (E. Horak & M.M. Moser) R. Heim 1966, *Weinzettlia* Velen. 1921 (= *Cortinarius*)

Cyphellaceae

Asterocyphella W.B. Cooke 1961, *Campanophyllum* Cifuentes & R.H. Petersen 2003, *Catilla* Pat. 1915, *Cheimonophyllum* Singer 1955, *Chondrostereum* Pouzar 1959, *Cunninghammyces* Stalpers 1985, *Cyphella* Fr. 1822, *Dendrocyphella* Petch 1922 (= *Cyphella*), *Gloeocorticium* Hjortstam & Ryvarden 1986, *Gloeostereum* S. Ito & S. Imai 1933, *Granulobasidium* Jülich 1979, *Hyphoradulum* Pouzar 1987, *Incrustocalyptella* Agerer 1983, *Phaeoporothelium* (W.B. Cooke) W.B. Cooke 1961, *Seticyphella* Agerer 1983, *Sphaerobasidioscypha* Agerer 1983, *Thujacorticium* Ginns 1988

Entolomataceae

Alboleptonia Largent & R.G. Benedict 1970 (= *Entoloma*), *Arenicola* Velen. 1947 (= *Entoloma*), *Calliderma* (Romagn.) Largent 1994, *Claudopus* Gillet 1876 (= *Entoloma*), *Clitopiloidea* (Romagn.) Largent 1994 (= *Entoloma*), *Clitopilopsis* Maire 1937 (= *Rhodocybe*), *Clitopilus* (Fr. ex Rabenh.) P. Kumm. 1871, *Eccilia* (Fr.) P. Kumm. 1871 (= *Entoloma*), *Entoloma* (Fr.) P. Kumm. 1871, *Fibropilus* (Noordel.) Largent 1994 (= *Entoloma*), *Hexajuga* Fayod 1889 (= *Clitopilus*), *Hirneola* Velen. 1939 (= *Rhodocybe*), *Inocephalus* (Noordel.) P.D. Orton 1991 (= *Entoloma*), *Inopilus* (Romagn.) Pegler 1983 (= *Entoloma*), *Lanolea* Nieuwl. 1916 (= *Entoloma*), *Latzinaea* Kuntze 1891 (= *Entoloma*), *Leptonia* (Fr.) P. Kumm. 1871 (= *Entoloma*), *Leptoniella* Earle 1909 (= *Entoloma*), *Nigropogon* Coker & Couch 1928 (= *Richoniella*), *Nolanea* (Fr.) P. Kumm. 1871 (= *Entoloma*), *Omphaliopsis* (Noordel.) P.D. Orton 1991 (= *Entoloma*), *Orcella* Kuntze ex Earle 1909 (= *Clitopilus*), *Paraeccilia* Largent 1994 (= *Entoloma*), *Paraleptonia* (Romagn. ex Noordel.) P.D. Orton 1991 (= *Entoloma*), *Paxillopsis* J.E. Lange 1940 (= *Clitopilus*), *Pouzarella* Mazzer 1976 (= *Entoloma*), *Pouzaromyces* Pilát 1953 (= *Entoloma*), *Rhodocybe* Maire 1926, *Rhodocybella* T.J. Baroni & R.H. Petersen 1987, *Rhodogaster* E. Horak 1964, *Rhodophana* Kühner 1971 (= *Rhodocybe*), *Rhodophyllus* Qué. 1886 (= *Entoloma*), *Richoniella* Costantin & L.M. Dufour 1916, *Trichopilus* (Romagn.) P.D. Orton 1991 (= *Entoloma*)

Fistulinaceae

Agarico-carnis Paulet 1793 (= *Fistulina*), *Buglossus* Wahlenb. 1826 (= *Fistulina*), *Confistulina* Stalpers 1983, *Enslinia* Fr. 1835 (= *Porodisculus*), *Fistulina* Bull. 1791, *Hypodrys* Pers. 1825 (= *Fistulina*), *Porodisculus* Murrill 1907, *Porodiscus* Murrill 1903 (= *Porodisculus*), *Pseudofistulina* O. Fidalgo & M. Fidalgo 1963

Gigaspermaceae

Gigasperma E. Horak 1971

Hemigasteraceae

Hemigaster Juel 1895

Hydnangiaceae

Hydnangium Wallr. 1839, *Laccaria* Berk. & Broome 1883, *Maccagnia* Mattir. 1922, *Podohydangium* G.W. Beaton, Pegler & T.W.K. Young 1984, *Russuliopsis* J. Schröt. 1889 (= *Laccaria*)

Hygrophoraceae

Ampulloclitocybe Redhead, Lutzoni, Moncalvo & Vilgalys 2002, *Bertrandia* R. Heim 1936 (= *Hygrocybe*), *Camarophyllopsis* Herink 1958, *Camarophyllus* (Fr.) P. Kumm. 1871 (= *Hygrophorus*), *Chromosera* Redhead, Ammirati & Norvell 1995, *Chrysobostrychodes* G. Kost 1985 (= *Chrysomphalina*), *Chrysomphalina* Cléménçon 1982, *Clavicybe* Harmaja 2002, *Cuphophyllus* (Donk) Bon 1985 (= *Hygrocybe*), *Gliophorus* Herink 1958 (= *Hygrocybe*), *Godfrinia* Maire 1902 (= *Hygrocybe*), *Hodophilus* R. Heim 1965 (= *Camarophyllopsis*), *Humidicutis* (Singer) Singer 1959, *Hydrophorus* Battarra ex Earle 1909 (= *Hygrocybe*), *Hygrocybe* (Fr.) P. Kumm. 1871, *Hygrophorus* Fr. 1836, *Hygrotrama* Singer 1959 (= *Camarophyllopsis*), *Lichenomphalia* Redhead, Lutzoni, Moncalvo & Vilgalys 2002, *Limacinus* (Quél.) Marchand 1896 (= *Hygrophorus*), *Limacium* (Fr.) P. Kumm. 1871 (= *Hygrophorus*), *Neohygrocybe* Herink 1959 (= *Hygrocybe*), *Neohygrophorus* Singer 1962 (= *Hygrophorus*), *Pseudohygrocybe* (Bon) Kovalenko 1988 (= *Hygrocybe*), *Semiomphalina* Redhead 1984

Inocybaceae

Agmocybe Earle 1909 (= *Inocybe*), *Astrosporina* J. Schröt. 1889 (= *Inocybe*), *Auritella* Matheny & Bougher 2006, *Auritella* Matheny & Bougher 2006, *Calathinus* Quél. 1886, *Chromocyphella* De Toni & Levi 1888, *Clypeus* (Britzelm.) Fayod 1889 (= *Inocybe*), *Crepidotus* (Fr.) Staude 1857, *Cymbella* Pat. 1886 (= *Chromocyphella*), *Cyphellathelia* Jülich 1972 (= *Pellidiscus*), *Dochmiopus* Pat. 1887 (= *Crepidotus*), *Epicorticium* Velen. 1926 (= *Phaeomarasmius*), *Episphaeria* Donk 1962, *Flammulaster* Earle 1909, *Flocculina* P.D. Orton 1960 (= *Phaeomarasmius*), *Inocibium* Earle 1909 (= *Inocybe*), *Inocybe* (Fr.) Fr. 1863, *Inocybella* Zerova 1974 (= *Inocybe*), *Marasmiopsis* Henn. 1898 (= *Phaeomarasmius*), *Octojuga* Fayod 1889 (= *Crepidotus*), *Pellidiscus* Donk 1959, *Phaeocarpus* Pat. 1887 (= *Chromocyphella*), *Phaeocyphella* Pat. 1900 (= *Chromocyphella*), *Phaeocyphella* Speg. 1909 (= *Chromocyphella*), *Phaeoglabrotricha* W.B. Cooke 1961 (= *Pellidiscus*), *Phaeomarasmius* Scherff. 1897, *Phaeomyces* E. Horak, *Phaeosolenia* Speg. 1902, *Phialocybe* P. Karst. 1879 (= *Crepidotus*), *Pleuroflammula* Singer 1946, *Pleurotellus* Fayod 1889 (= *Crepidotus*), *Ramicola* Velen. 1929 (= *Simocybe*), *Simocybe* P. Karst. 1879, *Tremellastrum* Clem. 1909 (= *Crepidotus*), *Tremellopsis* Pat. 1903 (= *Crepidotus*), *Tubaria* (W.G. Sm.) Gillet 1876

Lyophyllaceae

Asterophora Ditmar 1809, *Asterotrichum* Bonord. 1851 (= *Asterophora*), *Blastosporella* T.J. Baroni & Franco-Mol. 2007, *Caesposus* Nüesch 1937, *Calocybe* Kühner ex Donk 1962, *Echinosporella* Contu 1992 (= *Calocybe*), *Gerhardtia* Bon 1994 (= *Lyophyllum*), *Hypsizygus* Singer 1947, *Lyophyllopsis* Sathe & J.T. Daniel 1981, *Lyophyllum* P. Karst. 1881, *Nyctalis* Fr. 1825 (= *Asterophora*), *Ossicaulis* Redhead & Ginns 1985, *Podabrella* Singer 1945 (= *Termitomyces*), *Rajapa* Singer 1945 (= *Termitomyces*), *Rugosomyces* Raithelh. 1979 (= *Calocybe*), *Sinotermitomyces* M. Zang 1981, *Tephrocybe* Donk 1962, *Termitomyces* R. Heim 1942, *Termitosphaera* Cif. 1935, *Tricholomella* Zerova ex Kalamees 1992 (= *Calocybe*)

Marasmiaceae

Amyloflagellula Singer 1966, *Anastrophella* E. Horak & Desjardin 1994, *Androsaceus* (Pers.) Pat. 1887 (= *Marasmius*), *Anthracophyllum* Ces. 1879, *Aphyllotus* Singer 1974, *Baeospora* Singer 1938, *Bertrandiella* R. Heim 1966 (= *Lactocollybia*), *Calathella* D.A. Reid 1964, *Calyptella* Quél. 1886, *Campanella* Henn. 1895, *Caripia* Kuntze 1898, *Cephaloscypha* Agerer 1975, *Chaetocalathus* Singer 1942, *Chamaeceras* Rebt. ex Kuntze 1898 (= *Marasmius*), *Clitocybula* (Singer) Singer ex Métrod 1952, *Collybiopsis* (J. Schröt.) Earle 1909 (= *Marasmius*), *Crinipellis* Pat. 1889, *Cymatella* Pat. 1899, *Cymatellopsis* Parmasto 1985, *Dactylosporina* (Cléménçon) Dörfelt 1985, *Deigloria* Agerer 1980, *Dictyoploca* Mont. ex Pat. 1890 (= *Gymnopus*), *Discocyphella* Henn. 1900 (= *Marasmius*), *Epicnaphus* Singer 1960, *Fissolimbus* E. Horak 1979, *Galeromycena* Velen. 1947 (= *Macrocyttidia*), *Gerronema* Singer 1951, *Glabrocyphella* W.B. Cooke 1961, *Gloiocephala* Massee 1892 (= *Marasmius*), *Gymnopus* (Pers.) Roussel 1806, *Heliomyces* Lév. 1844 (= *Marasmius*), *Henningsomyces* Kuntze 1898, *Hispidocalyptella* E. Horak & Desjardin 1994, *Hydropus* Kühner ex Singer 1948, *Hymenonidium* Zukal 1888 (= *Marasmius*), *Hymenogloea* Pat. 1900, *Hymenomarasmius* Overeem 1927 (= *Marasmius*), *Lactocollybia* Singer 1939, *Lampteromyces* Singer 1947, *Laschia* Fr. 1830 (= *Campanella*), *Lecanocybe* Desjardin & E. Horak 1999, *Lentinula* Earle 1909, *Libellus* Lloyd 1913 (= *Hymenogloea*), *Macrocyttidia* Joss. 1934, *Macrocyttis* R. Heim 1931 (= *Macrocyttidia*), *Manuripia* Singer 1960, *Marasmiellus* Murrill 1915, *Marasmius* Fr. 1836, *Megacollybia* Kotl. & Pouzar 1972, *Metulocyphella* Agerer 1983, *Micromphale* Gray 1821 (= *Marasmiellus*), *Monodelphus* Earle 1909 (= *Omphalotus*), *Moniliophthora* H.C. Evans, Stalpers, Samson & Benny 1978, *Mycetinis* Earle 1909 (= *Marasmius*), *Neonothopanus* R.H. Petersen & Krisai 1999, *Nochascypha* Agerer 1983, *Nothopanus* Singer 1944, *Omphalotus* Fayod 1889, *Phaeodepas* D.A. Reid 1961, *Plagiatus* Kalchbr. ex Roum. 1879 (= *Anthracophyllum*), *Pleurocybella* Singer 1947, *Polymarasmius* Murrill 1915 (= *Marasmius*), *Poromarasmius* Binder

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et al. 2006, *Protomarasmius* Overeem 1927 (= *Marasmius*), *Pseudotyphula* Corner 1953, *Pterospora* Métrod 1949 (= *Tetrapyrgos*), *Rectipilus* Agerer 1973, *Rhodocollybia* Singer 1939, *Scorteus* Earle 1909 (= *Marasmius*), *Setulipes* Antonín 1987, Shitaker Lloyd 1924 (= *Lentinula*), *Skepperiella* Pilát 1927, *Solenia* Pers. 1794 (= *Henningsomyces*), *Stipitocyphella* G. Kost 1998, *Stromatocyphella* W.B. Cooke 1961, *Sympodia* (R. Heim) W.B. Cooke 1952 (= *Marasmius*), *Tephrophana* Earle 1909 (= *Marasmius*), *Tetrapyrgos* E. Horak 1987, *Trogia* Fr. 1836, *Vanromburghia* Holterm. 1898 (= *Marasmius*)

Mycenaceae

Bactroboletus Clem. 1909 (= *Mycena*), *Basidopus* Earle 1909 (= *Mycena*), *Collopus* Earle 1909 (= *Mycena*), *Corrugaria* Métrod 1949 (= *Mycena*), *Cruentomyces* R.H. Petersen, Kovalenko & O.V. Morozova 2008, *Decapitatus* Redhead & Seifert 2000, *Dictyopanus* Pat. 1900 (= *Panellus*), *Eomycenella* G.F. Atk. 1902 (= *Mycena*), *Favolaschia* (Pat.) Pat. 1892, *Filoboletus* Henn. 1900 (= *Mycena*), *Flabellimycena* Redhead 1984, *Galactopus* Earle 1909 (= *Mycena*), *Heimiomyces* Singer 1942 (= *Xeromphalina*), *Helotium* Tode 1790 (= *Hemimycena*), *Hemimycena* Singer 1938, *Hiatula* (Fr.) Mont. 1854 (= *Mycena*), *Hologloea* Pat. 1900 (= *Favolaschia*), *Insiticia* Earle 1909 (= *Mycena*), *Leiopoda* Velen. 1947 (= *Mycena*), *Leptomyces* Mont. 1856 (= *Mycena*), *Linopodium* Earle 1909 (= *Mycena*), *Mycena* (Pers.) Roussel 1806, *Mycenoporella* Overeem 1926 (= *Mycena*), *Mycenopsis* Velen. 1947 (= *Mycena*), *Mycenula* P. Karst. 1889 (= *Mycena*), *Mycomedusa* R. Heim 1966 (= *Favolaschia*), *Omphalopsis* Earle 1909 (= *Xeromphalina*), *Panellus* P. Karst. 1879, *Perona* Pers. 1825 (= *Hemimycena*), *Phlebomarasmius* R. Heim 1967 (= *Xeromphalina*), *Phlebomyces* R. Heim 1966 (= *Mycena*), *Poroauricula* McGinty 1917 (= *Favolaschia*), *Porolaschia* Pat. 1900 (= *Favolaschia*), *Poromyces* Overeem 1926 (= *Mycena*), *Prunulus* Gray 1821 (= *Mycena*), *Pseudomycena* Cejp 1929 (= *Mycena*), *Resinomyces* Redhead & Singer 1981, *Roridella* E. Horak 2005 (= *Roridomyces*), *Roridomyces* Rexer 1994, *Sarcomyxa* P. Karst. 1891 (= *Panellus*), *Scytinotus* P. Karst. 1879 (= *Panellus*), *Stereopodium* Earle 1909 (= *Mycena*), *Tectella* Earle 1909, *Urospora* Fayod 1889 (= *Panellus*), *Urosporellina* E. Horak 1968 (= *Panellus*), *Valentinia* Velen. 1939 (= *Xeromphalina*), *Xeromphalina* Kühner & Maire 1934, *Zephirea* Velen. 1947 (= *Mycena*)

Niaceae

Cyphellopsis Donk 1931 (= *Merismodes*), *Flagelloscypha* Donk 1951, *Halocyphina* Kohlm. & E. Kohlm. 1965, *Lachnella* Fr. 1836, *Maireina* W.B. Cooke 1961, *Merismodes* Earle 1909, *Nia* R.T. Moore & Meyers 1961, *Phaeocyphellopsis* W.B. Cooke 1961 (= *Merismodes*), *Pseudodasyscypha* Velen. 1939 (= *Merismodes*), *Woldmaria* W.B. Cooke 1961

Phelloriniaceae

Areolaria Kalchbr. 1884 (= *Phellorinia*), *Battarreopsis* Henn. 1902 (= *Dictyocephalos*), *Cyphellomyces* Speg. 1906 (= *Phellorinia*), *Dictyocephalos* Underw. ex V.S. White 1901, *Phellorinia* Berk. 1843, *Whetstonia* Lloyd 1906 (= *Dictyocephalos*), *Xylopodium* Mont. 1845 (= *Phellorinia*)

Physalacriaceae

Acurtis Fr. 1849, *Aphotistus* Humb. 1793 (= *Armillaria*), *Armillaria* (Fr.) Staude 1857, *Armillariella* (P. Karst.) P. Karst. 1881 (= *Armillaria*), *Baumannella* Henn. 1897 (= *Physalacria*), *Collybidium* Earle 1909 (= *Flammulina*), *Coprinopsis* Beeli 1929 (= *Oudemansiella*), *Cylindrobasidium* Jülich 1974, *Cyptotrama* Singer 1960, *Eoagaricus* L. Krieg. 1923 (= *Physalacria*), *Flammulina* P. Karst. 1891, *Himantia* (Fr.) Zoll. 1844 (= *Cylindrobasidium*), *Hormomitaria* Corner 1950 (= *Physalacria*), *Mucidula* Pat. 1887 (= *Oudemansiella*), *Mycaureola* Maire & Chemin 1922, *Myxocollybia* Singer 1936 (= *Flammulina*), *Oudemansia* Speg. 1880 (= *Oudemansiella*), *Oudemansiella* Speg. 1881, *Phaeolimacium* Henn. 1899 (= *Oudemansiella*), *Physalacria* Peck 1882, *Polomyces* Battarra ex Earle 1909 (= *Armillaria*), *Rhizomarasmius* R.H. Petersen 2000, *Rhizomorpha* Roth 1791 (= *Armillaria*), *Rhodotus* Maire 1926, *Strobilurus* Singer 1962, *Xerula* Maire 1933, *Xerulina* Singer 1962 (= *Cyptotrama*)

Pleurotaceae

Acanthocystis (Fayod) Kühner 1926 (= *Hohenbuehelia*), *Antromycopsis* Pat. & Trab. 1897, *Agaricochaete* Eichelb. 1906, *Cantharocybe* H.E. Bigelow & A.H. Sm. 1973, *Crepidopus* (Nees) Gray 1821 (= *Pleurotus*), *Cyclopleurotus* Hasselt 1824 (= *Pleurotus*), *Gelona* Adans 1763 (= *Pleurotus*), *Geopetalum* Pat. 1887 (= *Hohenbuehelia*), *Geopetalum* Singer 1951 (= *Hohenbuehelia*), *Hohenbuehelia* Schulzer 1866, *Lentodiopsis* Bubák 1895 (= *Pleurotus*), *Nematoctonus* Drechsler 1941, *Pleuropus* (Pers.) Gray 1821 (= *Pleurotus*), *Pleurotus* (Fr.) P. Kumm. 1871, *Pterophyllus* Lév. 1844 (= *Pleurotus*), *Scleroma* Fr. 1838 (= *Pleurotus*)

Pluteaceae

Annularia (Schulzer) Gillet 1876 (= *Chamaeota*), *Chamaeota* (W.G. Sm.) Earle 1909, *Hyporrhodius* (Fr.) Staude 1857 (= *Pluteus*), *Pluteus* Fr. 1836, *Pseudofarinaceus* Earle 1909 (= *Volvariella*), *Rhodosporus* J. Schröt. 1889 (= *Pluteus*), *Volva* Adans. 1763 (= *Volvariella*), *Volvaria* (Fr.) P. Kumm. 1871 (= *Volvariella*), *Volvariella* Speg. 1899, *Volvariopsis* Murrill 1911 (= *Volvariella*), *Volvarius* Roussel 1806 (= *Volvariella*)

Psathyrellaceae

Astylospora Fayod 1889 (= *Psathyrella*), *Coprinellus* P. Karst. 1879, *Coprinopsis* P. Karst. 1881, *Cortiniopsis* J. Schröt. 1889

(= Lacrymaria), *Cystoagaricus* Singer 1947, *Drosophila* Quél. 1886 (= Psathyrella), *Gasteroagaricoides* D.A. Reid 1986, *Glyptospora* Fayod 1889 (= Lacrymaria), *Gymnochilus* Clem. 1896 (= Psathyrella), *Homophron* (Britzelm.) W.B. Cooke 1953 (= Psathyrella), *Hormographiella* Guarro & Gené 1992, *Hypholomopsis* Earle 1909 (= Psathyrella), *Lacrymaria* Pat. 1887, *Lentispora* Fayod 1889 (= Coprinus), *Macrometrula* Donk & Singer 1948, *Mythicomycetes* Redhead & A.H. Sm. 1986, *Palaeocybe* Dörfelt & Striebich 2000, *Pannucia* P. Karst. 1879 (= Psathyrella), *Parasola* Redhead, Vilgalys & Hopple 2001, *Pluteopsis* Fayod 1889 (= Psathyrella), *Psalliotina* Velen. 1939 (= Psathyrella), *Psammocoparius* Delile ex De Seynes 1863 (= Psathyrella), *Psathyra* (Fr.) P. Kumm. 1871 (= Psathyrella), *Psathyrella* (Fr.) Quél. 1872, *Psilocybe* Fayod 1889 (= Psathyrella)

Pterulaceae

Actiniceps Berk. & Broome 1876, *Adustomyces* Jülich 1979, *Allantula* Corner 1952, *Aphanobasidium* Jülich 1979, *Chaetotyphula* Corner 1950, *Coronicium* J. Erikss. & Ryvarden 1975, *Deflexula* Corner 1950, *Dimorphocystis* Corner 1950 (= Actiniceps), *Flavophlebia* (Parmasto) K.H. Larss. & Hjortstam 1977 (= Radulomyces), *Globulicium* Hjortstam 1973 (= Radulomyces), *Lepidomyces* Jülich 1979 (= Aphanobasidium), *Merulicium* J. Erikss. & Ryvarden 1976, *Parapterulicium* Corner 1952, *Penicillaria* Chevall. 1826 (= Pterula), *Phaeopterula* (Henn.) Sacc. & D. Sacc. 1905 (= Pterula), *Pterula* Fr. 1832, *Pterulicium* Corner 1950, *Radulomyces* M.P. Christ. 1960, *Wiesnerina* Höhn. 1907

Schizophyllaceae

Apus Gray 1821 (= Schizophyllum), *Auriculariopsis* Maire 1902, *Cyrtidiella* Pouzar 1954 (= Auriculariopsis), *Ditiola* P. Browne 1756 (= Schizophyllum), *Flabellaria* Pers. 1818 (= Schizophyllum), *Hyponevris* Earle 1909 (= Schizophyllum), *Petrona* Adans. 1763 (= Schizophyllum), *Phaeoschizophyllum* W.B. Cooke 1962 (= Schizophyllum), *Rhipidium* Wallr. 1833 (= Schizophyllum), *Scaphophoeum* Ehrenb. ex Wallr. 1833 (= Schizophyllum), *Schizonia* Pers. 1828 (= Schizophyllum), *Schizophyllum* Fr. 1815

Strophariaceae

Agrocybe Fayod 1889, *Alnicola* Kühner 1926 (= Naucoria), *Braunia* Rick 1934 (= Brauniella), *Brauniella* Rick ex Singer 1955, *Bulla* Battarra ex Earle 1909 (= Agrocybe), *Cyclocybe* Velen. 1939 (= Agrocybe), *Cyclopus* (Quél.) Barbier 1907 (= Agrocybe), *Cytophyllopsis* R. Heim 1958 (= Weraroa), *Deconica* (W.G. Sm.) P. Karst. 1879 (= Psilocybe), *Delitescor* Earle 1909 (= Psilocybe), *Dendrogaster* Buchholz 1901 (= Hymenogaster), *Dermisus* (Fr.) Staude 1857 (= Pholiota), *Dryophila* Quél. 1886 (= Pholiota), *Fechtneria* Velen. 1939 (= Hymenogaster), *Flammopsis* Fayod 1889 (= Pholiota), *Flammula* (Fr.) P. Kumm. 1871 (= Pholiota), *Fulvidula* Romagn. 1936 (= Gymnopilus), *Galera* (Fr.) P. Kumm. 1871 (= Galerina), *Galerina* Earle 1909, *Galeropsina* Velen. 1947 (= Psilocybe), *Galerula* P. Karst. 1879 (= Galerina), *Geophila* Quél. 1886 (= Psilocybe), *Gymnocybe* P. Karst. 1879 (= Pholiota), *Gymnopilus* P. Karst. 1879, *Hebeloma* (Fr.) P. Kumm. 1871, *Hebelomatis* Earle 1909 (= Hebeloma), *Hebelomina* Maire 1925, *Hemipholiota* (Singer) Romagn. 1980 (= Pholiota), *Hylophila* Quél. 1886 (= Hebeloma), *Hymenogaster* Vittad. 1831, *Hypholoma* (Fr.) P. Kumm. 1871 (= Psilocybe), *Hypodendrum* Paulet ex Earle 1909 (= Pholiota), *Hysterogaster* Zeller & C.W. Dodge 1928 (= Hymenogaster), *Kuehneromyces* Singer & A.H. Sm. 1946 (= Pholiota), *Le-Ratia* Pat. 1907 (= Leratiomyces), *Leratiomyces* Bresinsky & Binder 1998, *Leratiomyces* Bresinsky & Binder ex Redhead & McNeill 2008, *Marthanella* States & Fogel 1999, *Melanotus* Pat. 1900 (= Psilocybe), *Myxocybe* Fayod 1889 (= Hebeloma), *Naematoloma* P. Karst. 1880 (= Psilocybe), *Naucoria* (Fr.) P. Kumm. 1871, *Nemecomyces* Pilát 1933 (= Pholiota), *Nivatogastrium* Singer & A.H. Sm. 1959, *Pachylepyrium* Singer 1958, *Phaeogalera* Kühner 1973 (= Galerina), *Phaeonematoloma* (Singer) Bon 1994 (= Pholiota), *Pholidotopsis* Earle 1909 (= Galerina), *Pholiota* (Fr.) P. Kumm. 1871, *Picromyces* Battarra ex Earle 1909 (= Hebeloma), *Pseudodeconica* Overeem 1927 (= Agrocybe), *Pseudogymnopilus* Raithelh. 1974 (= Pholiota), *Psilocybe* (Fr.) P. Kumm. 1871, *Radiogaster* Lloyd 1924 (= Hymenogaster), *Rhizopogoniella* Soehner 1953 (= Hymenogaster), *Roumeguerites* P. Karst. 1879 (= Hebeloma), *Ryssospora* Fayod 1889 (= Pholiota), *Sarcoloma* Locq. 1979 (= Hebeloma), *Stagnicola* Redhead & A.H. Sm. 1986, *Stropharia* (Fr.) Quél. 1872 (= Psilocybe), *Stropholoma* (Singer) Balletto 1989 (= Psilocybe), *Togaria* W.G. Sm. 1908 (= Agrocybe), *Velomycena* Pilát 1953 (= Galerina), *Visculus* Earle 1909 (= Pholiota), *Weraroa* Singer 1958

Tricholomataceae

Aeruginospora Höhn. 1908, *Amparoina* Singer 1958, *Arrhenia* Fr. 1849, *Arthromyces* T.J. Baroni & Lodge 2007, *Arthrosporella* Singer 1970, *Asproinocybe* R. Heim 1970, *Aspropaxillus* Kühner & Maire 1934 (= Leucopaxillus), *Asterotus* Singer 1943 (= Resupinatus), *Austroclitocybe* Raithelh. 1972, *Austroomphaliaster* Garrido 1988, *Biannularia* Beck 1922 (= Catathelasma), *Boehmia* Raddi 1807 (= Arrhenia), *Botrydina* Bréb. ex Menegh. 1844 (= Omphalina), *Callistodermatium* Singer 1981, *Callistosporium* Singer 1944, *Cantharellopsis* Kuyper 1986, *Cantharellula* Singer 1936, *Catathelasma* Lovejoy 1910, *Caulorhiza* Lennox 1979, *Cellypha* Donk 1959, *Clavomphalia* E. Horak 1987, *Clitocybe* (Fr.) Staude 1857, *Collybia* (Fr.) Staude 1857, *Conchomyces* Overeem 1927, *Coolia* Huijsman 1943 (= Squamanita), *Coriscium* Vain. 1890 (= Omphalina), *Corniola* Gray 1821 (= Arrhenia), *Cortinellus* Roze 1876 (= Tricholoma), *Cynema* Maas Geest. & E. Horak 1995, *Cyphellocalathus* Agerer 1981, *Delicatula* Fayod 1889 (a maior parte são *Hemimycena*), *Dendrocollybia* R.H. Petersen & Redhead 2001, *Dennisiomyces* Singer 1955, *Dermoloma* J.E. Lange ex Herink 1959, *Dictyolus* Quél. 1886 (= Arrhenia), *Dissoderma* (A.H. Sm. & Singer) Singer 1974 (= Squamanita), *Fayodia*

Kühner 1930, *Gamundia* Raithelh. 1979, *Geotus* Pilát & Svrcek 1953 (= *Arrhenia*), *Glutinaster* Earle 1909 (= *Tricholoma*), *Gyrophila* Quél. 1886 (= *Tricholoma*), *Haasiella* Kotl. & Pouzar 1966, *Heterosporula* (Singer) Kühner 1980 (= *Gamundia*), *Horakomyces* Raithelh. 1983 (= *Melanomphalia*), *Hygroaster* Singer 1955, *Infundibulicybe* Harmaja 2003, *Lepista* (Fr.) W.G. Sm. 1870, *Lepistella* T.J. Baroni & Ovrebo 2007, *Leptoglossum* P. Karst. 1879 (= *Arrhenia*), *Leptotus* P. Karst. 1879 (= *Arrhenia*), *Leucocortinarius* (J.E. Lange) Singer 1945, *Leucoinocybe* Singer 1943, *Leucopaxillus* Boursier 1925, *Leucopholiota* (Romagn.) O.K. Mill., T.J. Volk & Bessette 1996, *Lulesia* Singer 1970, *Macrocybe* Pegler & Lodge 1998, *Mastoleucomyces* Battarra ex Kuntze 1891 (= *Tricholoma*), *Megatracholoma* G. Kost 1984 (= *Tricholoma*), *Melaleuca* Pat. 1887 (= *Melanoleuca*), *Melanoleuca* Pat. 1897, *Melanomphalia* M.P. Christ. 1936, *Microcollybia* Métrod ex Lennox 1979 (= *Collybia*), *Microcollybia* Métrod 1952 (= *Collybia*), *Mniopetalum* Donk & Singer 1962 (= *Rimbachia*), *Monomyces* Battarra ex Earle 1909 (= *Tricholoma*), *Mycenella* (J.E. Lange) Singer 1938, *Mycoalvimia* Singer 1981, *Myxomphalia* Hora 1960, *Neoclitocybe* Singer 1962, *Nothoclavulina* Singer 1970, *Omphalia* (Pers.) Gray 1821 (= *Pseudoclitocybe*), *Omphalia* (Fr.) Staude 1857 (= *Omphalina*), *Omphaliaster* Lamoure 1971, *Omphalina* Quél. 1886, *Omphalius* Roussel 1806 (= *Pseudoclitocybe*), *Palaeocephala* Singer 1962, *Paralepista* Raithelh. 1995 (= *Lepista*), *Peglerochaete* Sarwal & Locq. 1983, *Pegleromyces* Singer 1981, *Phaeomyces* R. Heim ex Singer & Digilio 1952, *Phaeotellus* Kühner & Lamoure 1972 (= *Omphalina*), *Phalomia* Nieuwl. 1916 (= *Omphalina*), *Phlebophora* Lév. 1841 (= *Tricholoma*), *Phyllotopsis* E.-J. Gilbert & Donk ex Singer 1936, *Phyllotremella* Lloyd 1920 (= *Resupinatus*), *Phyllotus* P. Karst. 1879 (= *Resupinatus*), *Physocystidium* Singer 1962, *Phytoconis* Bory 1797 (= *Omphalina*), *Pleurella* E. Horak 1971, *Pleurocollybia* Singer 1947, *Pleuromyces* Singer 1974 (= *Rimbachia*), *Pleurotopsis* (Henn.) Earle 1909 (= *Resupinatus*), *Porpoloma* Singer 1952, *Psammospore* Fayod 1889 (= *Melanoleuca*), *Pseudoarmillariella* (Singer) Singer 1956, *Pseudobaeospora* Singer 1942, *Pseudoclitocybe* (Singer) Singer 1956, *Pseudohiatula* (Singer) Singer 1938, *Pseudohygrophorus* Velen. 1939, *Pseudolasiobolus* Agerer 1983, *Pseudolyophyllum* (Singer) Raithelh. 1980 (= *Clitocybe*), *Pseudoomphalina* (Singer) Singer 1956, *Resupinatus* (Nees) Gray 1821, *Retocybe* Velen. 1947 (= *Delicatula*), *Rhodocyphella* W.B. Cooke 1961 (= *Resupinatus*), *Rhodopaxillus* Maire 1913 (= *Lepista*), *Rimbachia* Pat. 1891, *Ripartites* P. Karst. 1879, *Rubeolarius* Raith. 1981, *Sclerotilbum* Povah 1932 (= *Tilachlidiopsis*), *Scytinotopsis* Singer 1936 (= *Resupinatus*), *Singerella* Harmaja 1974 (= *Clitocybe*), *Singerocybe* Harmaja 1988 (= *Clitocybe*), *Sphaerocephalus* Battarra ex Earle 1909 (= *Tricholoma*), *Squamanita* Imbach 1946, *Stachyomphalina* H.E. Bigelow 1979 (= *Gamundia*), *Stanglomyces* Raithelh. 1986, *Stigmatolemma* Kalchbr. 1882 (= *Resupinatus*), *Tilachlidiopsis* Keissl. 1924, *Tilotus* Kalchbr. 1881 (= *Phyllotopsis*), *Tomentifolium* Murrill 1903 (= *Phyllotopsis*), *Tricholoma* (Fr.) Staude 1857, *Tricholomopsis* Singer 1936, *Tricholosporum* Guzmán 1975, *Trigonipes* Velen. 1939 (= *Clitocybe*), *Ugola* Adans. 1763, *Urceolus* Velen. 1939 (= *Resupinatus*)

Typhulaceae

Astoma Gray 1821 (= *Sclerotium*), *Bromicolla* E.V. Eichw. 1843 (= *Sclerotium*), *Cnazonaria* Corda 1829 (= *Typhula*), *Coccopleum* Ehrenb. 1818 (= *Sclerotium*), *Dacryopsella* Höhn. 1915 (= *Pistillaria*), *Gliocoryne* Maire 1909 (= *Pistillaria*), *Lutypha* Khurana, K.S. Thind & Berthier 1977, *Macrotyphula* R.H. Petersen 1972, *Phacorhiza* Pers. 1822 (= *Typhula*), *Pistillaria* Fr. 1821, *Pistillina* Quél. 1880, *Scleromitra* Corda 1829 (= *Pistillaria*), *Sclerotium* Woron. 1926 (= *Sclerotium*), *Sclerotium* Tode 1790, *Sphaerula* Pat. 1883 (= *Pistillaria*), *Typhula* (Pers.) Fr. 1818, *Xylochoeras* Fr. 1849 (= *Sclerotium*)

Ordem Atheliales

Atheliaceae

Amphinema P. Karst. 1892, *Athelia* Pers. 1822, *Athelium* K.H. Larss. & Hjortstam 1986, *Athelopsis* Oberw. ex Parmasto 1968, *Butlerelfia* Weresub & Illman 1980, *Byssocorticium* Bondartsev & Singer 1944, *Byssoporia* M.J. Larsen & Zak 1978, *Caerulicium* Jülich 1982 (= *Byssocorticium*), *Digitatispora* Doguet 1962, *Diplonema* P. Karst. 1889 (= *Amphinema*), *Elaphocephala* Pouzar 1983, *Fibulomyces* Jülich 1972, *Fibulorhizoctonia* G.C. Adams & Kropp 1996, *Hypochnella* J. Schröt. 1888, *Hypochniciellum* Hjortstam & Ryvarden 1980, *Leptosporomyces* Jülich 1972, *Lobulicium* K.H. Larss. & Hjortstam 1982, *Lyoathelia* Hjortstam & Ryvarden 2004, *Melzericium* Hauerslev 1975, *Mycostigma* Jülich 1976, *Piloderma* Jülich 1969, *Pteridomyces* Jülich 1979, *Taeniospora* Marvanová 1977, *Tylosperma* Donk 1957 (= *Tylospora*), *Tylospora* Donk 1960

Ordem Boletales

Incertae sedis

Coniobotrys Pouzar 1958 (= *Jaapia*), *Coniophoropsis* Hjortstam & Ryvarden 1986, *Corditubera* Henn. 1897,

Corneromyces Ginns 1976, *Jaapia* Bres. 1911, *Lamyxis* Raf. 1820, *Phaeoradulum* Pat. 1900

Amylocorticiaceae

Amyloathelia Hjortstam & Ryvarden 1979, *Amylocorticiellum* Spirin & Zmitr. 2002, *Amylocorticium* Pouzar 1959, *Amyloxenasma* (Oberw.) Hjortstam & Ryvarden 2005, *Ceraceomyces* Jülich 1972, *Irpicodon* Pouzar 1966, *Podoserpula* D.A. Reid 1963, *Serpulomyces* (Zmitr.) Zmitr. 2002

Boletaceae

Afroboletus Pegler & T.W.K. Young 1981, *Aureoboletus* Pouzar 1957, *Austroboletus* (Corner) Wolfe 1980, *Boletellus* Murrill 1909, *Boletochaete* Singer 1944, *Boletogaster* Lohwag 1926 (= *Boletellus*), *Boletus* L. 1753, *Boletus* Fr. 1821, *Bothia* Halling, T.J. Baroni & Binder 2007, *Buchwaldoboletus* Pilát 1969, *Ceratomyces* Murrill 1909 (= *Boletus*), *Chalciporus* J. Bataille 1908, *Chamonixia* Rolland 1899, *Dictyopus* Quél. 1886 (= *Boletus*), *Eriocorys* Quél. 1886 (= *Strobilomyces*), *Fistulinella* Henn. 1901, *Frostiella* Murrill 1942 (= *Boletellus*), *Gastroboletus* Lohwag 1926, *Gastroleccinum* Thiers 1989, *Gastrotylopilus* T.H. Li & Watling 1999, *Gymnogomphus* Fayod 1889 (= *Boletus*), *Hemileccinum* Šutara 2008, *Hemioporus* E. Horak 2004, *Ixechnus* R. Heim 1968 (= *Fistulinella*), *Krombholzia* P. Karst. 1881 (= *Leccinum*), *Krombholziella* Maire 1937 (= *Leccinum*), *Leccinellum* Bresinsky & Binder 2003, *Leccinum* Gray 1821, *Leucogyroporus* Snell 1942 (= *Tylopilus*), *Mucilopilus* Wolfe 1979 (= *Fistulinella*), *Mycoamaranthus* Castellano, Trappe & Malajczuk 1992, *Octaviana* Vittad. 1831, *Oedipus* J. Bataille 1908 (= *Boletus*), *Paxillogaster* E. Horak 1966, *Phaeoporus* J. Bataille 1908 (= *Porphyrellus*), *Phylloboletellus* Singer 1952, *Phyllobolites* Singer 1942, *Phylloporus* Quél. 1888, *Porphyrellus* E.-J. Gilbert 1931, *Pseudoboletus* Šutara 1991, *Pulveroboletus* Murrill 1909, *Retiboletus* Manfr. Binder & Bresinsky 2002, *Rhodactina* Pegler & T.W.K. Young 1989, *Rhodobolites* Beck 1923 (= *Tylopilus*), *Rhodoporus* Quél. ex J. Bataille 1908 (= *Tylopilus*), *Royoungia* Castellano, Trappe & Malajczuk 1992, *Rubinoboletus* Pilát & Dermek 1969, *Setogyroporus* Heinem. & Rammeloo 1982, *Singeromyces* M.M. Moser 1966, *Sinoboletus* M. Zang 1992, *Strobilofungus* Lloyd 1915 (= *Boletellus*), *Strobilomyces* Berk. 1851, *Suillellus* Murrill 1909 (= *Boletus*), *Suillus* P. Micheli ex Adans. 1763 (= *Boletus*), *Suillus* (Haller) Kuntze 1898 (= *Boletus*), *Trachypus* J. Bataille 1908 (= *Leccinum*), *Tubiporus* P. Karst. 1881 (= *Boletus*), *Tubosaeta* E. Horak 1967, *Tylopilus* P. Karst. 1881, *Veloporphyrellus* L.D. Gómez & Singer 1984, *Veloporus* Quél. 1888 (= *Boletus*), *Versipellis* Quél. 1886 (= *Boletus*), *Wakefieldia* Corner & Hawker 1953, *Xanthoconium* Singer 1944, *Xerocomellus* Šutara 2008 (= *Boletus*?), *Xerocomopsis* Reichert 1940 (= *Boletus*), *Xerocomus* Quél. 1887 (= *Boletus*)

Boletinellaceae

Boletinellus Murrill 1909, *Phaeogyroporus* Singer 1944 (= *Phlebopus*), *Phlebopus* (R. Heim) Singer 1936, *Plicaturella* Murrill 1910 (= *Boletinellus*)

Calostomataceae

Calostoma Desv. 1809, *Gyropodium* E. Hitchc. 1825 (= *Calostoma*), *Hussea* Berk. 1847 (= *Calostoma*), *Mitremyces* Nees 1816 (= *Calostoma*)

Coniophoraceae

Boninohydnum S. Ito & S. Imai 1940 (= *Gyrodontium*), *Chrysoconia* McCabe & G.A. Escobar 1979, *Coniophora* DC. 1815, *Coniophorella* P. Karst. 1889 (= *Coniophora*), *Gyrodontium* Pat. 1900

Diplocystaceae

Astraeus Morgan 1889, *Diplocystis* Berk. & M.A. Curtis 1869, *Diploderma* Link 1816 (= *Astraeus*), *Endogonopsis* R. Heim 1966, *Tremellogaster* E. Fisch. 1924

Gasterellaceae

Gasterella Zeller & L.B. Walker 1935

Gastrosporiaceae

Gastrosporium Mattir. 1903, *Leucorhizon* Velen. 1925 (= *Gastrosporium*)

Gomphidiaceae

Brauniellula A.H. Sm. & Singer 1959 (= *Chroogomphus*), *Chroogomphus* (Singer) O.K. Mill. 1964, *Cystogomphus* Singer 1942, *Gomphidius* Fr. 1836, *Gomphogaster* O.K. Mill. 1973, *Gomphus* (Fr.) Weinm. 1826 (= *Gomphidius*), *Leucogomphidius* Kotl. & Pouzar 1972 (= *Gomphidius*)

Gyroporaceae

Coelopus J. Bataille 1908 (= *Gyroporus*), *Gyroporus* Quél. 1886, *Leucobolites* Beck 1923 (= *Gyroporus*), *Leucoconius* Beck 1923 (= *Gyroporus*), *Suillus* P. Karst. 1882 (= *Gyroporus*)

Hygrophoropsidaceae

Hygrophoropsis (J. Schröt.) Maire ex Martin-Sans 1929, *Leucogyrophana* Pouzar 1958

Paxillaceae

Alpova C.W. Dodge 1931, *Anastomaria* Raf. 1820 (= Gyrodon), *Argyllum* Wallr. 1833 (= Melanogaster), *Austrogaster* Singer 1962, *Bullardia* Jungh. 1830 (= Melanogaster), *Campbellia* Cooke & Massee 1890 (= Gyrodon), *Gilbertiella* R. Heim 1965 (= Gyrodon), *Gilbertina* R. Heim 1966 (= Gyrodon), *Gyrodon* Opat. 1836, *Hoehnelogaster* Lohwag 1926, *Hydnomerulius* Jarosch & Besl 2001, *Hyperrhiza* Spreng. 1827 (= Melanogaster), *Meiorganum* R. Heim 1965, *Melanogaster* Corda 1831, *Paragyrodon* (Singer) Singer 1942, *Parapaxillus* Singer 1942 (= Paxillus), *Paxillopsis* E.-J. Gilbert 1931 (= Paxillus), *Paxillus* Fr. 1836, *Pseudogyrodon* Heinem. & Rammeloo 1983 (= Gyrodon), *Rhymovis* Pers. ex Rabenh. 1844 (= Paxillus), *Rodwaya* Syd. & P. Syd. 1901 (= Gyrodon), *Ruthea* Opat. 1836 (= Paxillus), *Sarcopaxillus* Zmitr., V. Malysheva & E. Malysheva 2004 (= *Tapinella*?), *Uloporus* Qué. 1886 (= Gyrodon), *Uperhiza* Bosc 1811 (= Melanogaster)

Protogastraceae

Protogaster Thaxt. 1934

Rhizopogonaceae

Anthrachophous Mattir. ex Lloyd 1913 (= Rhizopogon), *Fevansia* Trappe & Castellano 2000, *Hysteromyces* Vittad. 1844 (= Rhizopogon), *Rhizopogon* Fr. & Nordholm 1817, *Rhopalogaster* J.R. Johnst. 1902, *Splanchnomyces* Corda 1831 (= Rhizopogon)

Sclerodermataceae

Actigea Raf. 1814 (= Scleroderma), *Caloderma* Petri 1900 (= Scleroderma), *Chlorogaster* Laessøe & Jalink 2004, *Durosaccum* Lloyd 1924 (= *Pisolithus*), *Endacinus* Raf. 1814 (= *Pisolithus*), *Eudacnus* Raf. ex Merr. 1943 (= *Pisolithus*), *Favillea* Fr. 1848, *Goupilia* Mérat 1834 (= Scleroderma), *Horakiella* Castellano & Trappe 1992, *Lycoperdastrum* P. Micheli 1729 (= Scleroderma), *Lycoperdodes* Kuntze 1891 (= *Pisolithus*), *Mycastrum* Raf. 1813 (= Scleroderma), *Neosaccardia* Mattir. 1921 (= Scleroderma), *Nepotatus* Lloyd 1925 (= Scleroderma), *Phlyctospora* Corda 1841 (= Scleroderma), *Pirogaster* Henn. 1901 (= Scleroderma), *Pisocarpium* Link 1808 (= *Pisolithus*), *Pisolithus* Alb. & Schwein. 1805, *Polypera* Pers. 1818 (= *Pisolithus*), *Polysaccum* F. Desp. & DC. 1807 (= *Pisolithus*), *Pompholyx* Corda 1834 (= Scleroderma), *Sclerangium* Lév. 1848 (= Scleroderma), *Scleroderma* Pers. 1801, *Stella* Massee 1889 (= Scleroderma), *Sterrebekia* Link 1816 (= Scleroderma), *Veligaster* Guzmán 1970 (= Scleroderma)

Sclerogastraceae

Sclerogaster R. Hesse 1891

Serpulaceae

Austropaxillus Bresinsky & Jarosch 1999, *Gyrophana* Pat. 1897 (= *Serpula*), *Gyrophora* Pat. 1887 (= *Serpula*), *Serpula* (Pers.) Gray 1821, *Xylomyzon* Pers. 1825 (= *Serpula*), *Xylophagus* Link 1809 (= *Serpula*)

Suillaceae

Boletinus Kalchbr. 1867 (= *Suillus*), *Boletopsis* Henn. 1898 (= *Suillus*), *Cricunopus* P. Karst. 1881 (= *Suillus*), *Dodgea* Malençon 1939 (= *Truncocolumella*), *Eryporus* Qué. 1886 (= *Suillus*), *Fuscoboletinus* Pomerl. & A.H. Sm. 1962 (= *Suillus*), *Gastrosuillus* Thiers 1989 (= *Suillus*), *Gymnopus* (Qué.) Qué. ex Moug. & Ferry 1887 (= *Suillus*), *Ixocomus* Qué. 1888 (= *Suillus*), *Mariaella* Šutara 1987 (= *Suillus*), *Peplopus* (Qué.) Qué. ex Moug. & Ferry 1887 (= *Suillus*), *Pinuzza* Gray 1821 (= *Suillus*), *Psiloboletinus* Singer 1945, *Rostkovites* P. Karst. 1881 (= *Suillus*), *Solenia* Hill ex Kuntze 1898 (= *Suillus*), *Suillus* Gray 1821, *Truncocolumella* Zeller 1939, *Viscipellis* (Fr.) Qué. 1886 (= *Suillus*)

Tapinellaceae

Bondarcevomyces Parmasto 1999, *Pseudomerulius* Jülich 1979, *Tapinella* E.-J. Gilbert 1931, *Tapinia* (Fr.) P. Karst. 1879 (= *Tapinella*)

Subclasse Phallomycetidae

Ordem Geastrales

Geastraceae

Anthropomorphus Seger 1745 (= *Geastrum*), *Astrocitum* Raf. 1806 (= *Geastrum*), *Astrycum* Raf. 1809 (= *Geastrum*), *Bovistoides* Lloyd 1919 (= *Myriostoma*), *Carpobolus* P. Micheli ex Paulet 1808 (= *Sphaerobolus*), *Coilomyces* Berk. & M.A. Curtis 1853 (= *Geastrum*), *Geaster* P. Micheli ex Fr. 1829 (= *Geastrum*), *Geasteroides* Long 1917, *Geasteropsis* Hollós 1903 (= *Geastrum*), *Geastrum* Pers. 1801, *Glycydiderma* Paulet 1808 (= *Geastrum*), *Myriostoma* Desv. 1809, *Nidulariopsis* Greis 1935, *Phialastrum* Sunhede 1989, *Plecostoma* Desv. 1809 (= *Geastrum*), *Polystoma* Gray 1821 (= *Myriostoma*), *Pyrenogaster* Malençon & Rioussset 1977, *Radiigera* Zeller 1944, *Schenella* T. Macbr. 1911 *Siropeltis* Arx & R. Garnier 1960 (= *Sphaerobolus*), *Sphaerobolus* Tode 1790, *Terrostella* Long 1945 (= *Geasteroides*), *Trichaster* Czern. 1845 (= *Geastrum*)

Ordem Gomphales

Clavariadelphaceae

Beenakia D.A. Reid 1956, *Clavariadelphus* Donk 1933, *Psathyrodon* Maas Geest. 1977 (= *Beenakia*)

Gomphaceae

Araecoryne Corner 1950, *Austrogautieria* E.L. Stewart & Trappe 1985, *Ceratella* Pat. 1887 (= *Ceratellopsis*), *Ceratellopsis* Konrad & Maubl. 1937, *Chloroneuron* Murrill 1911 (= *Gomphus*), *Chlorophyllum* Murrill 1910 (= *Gomphus*), *Ciliciocarpus* Corda 1831 (= *Gautieria*), *Cladaria* Ritgen 1831 (= *Ramaria*), *Clavariella* P. Karst. 1881 (= *Ramaria*), *Corallium* G. Hahn 1883 (= *Ramaria*), *Coralloidea* Roussel 1806 (= *Ramaria*), *Coralloides* Tourn. ex Maratti 1822 (= *Ramaria*), *Delentaria* Corner 1970, *Dendrocladium* (Pat.) Lloyd 1919 (= *Ramaria*), *Destuntzia* Fogel & Trappe 1985, *Gautieria* Vittad. 1831, *Gloeocantharellus* Singer 1945, *Gomphora* Fr. 1825 (= *Gomphus*), *Gomphus* Pers. 1797, *Hydnospongus* Wallr. 1839 (= *Gautieria*), *Linderomyces* Singer 1947 (= *Gloeocantharellus*), *Nevrophyllum* Pat. 1886 (= *Gomphus*), *Phaeoclavulina* Brinkmann 1897 (= *Ramaria*), *Protogautieria* A.H. Sm. 1965, *Pseudogomphus* R. Heim 1970, *Ramaria* Fr. ex Bonord. 1851, *Ramaricium* J. Erikss. 1954, *Terenodon* Maas Geest. 1971, *Turbinellus* Earle 1909 (= *Gomphus*), *Uslaria* Nieuwl. 1916 (= *Gautieria*)

Lentariaceae

Hydnocristella R.H. Petersen 1971 (= *Kavinia*), *Kavinia* Pilát 1938, *Lentaria* Corner 1950

Ordem Hysterangiales

Gallaceaceae

Gallacea Lloyd 1905, *Hallingea* Castellano 1996

Hysterangiaceae

Aroromyces Castellano & Verbeken 2000, *Boninogaster* Kobayasi 1937, *Circulocolumella* S. Ito & S. Imai 1957, *Clathrogaster* Petri 1900, *Hysterangium* Vittad. 1831, *Stalactocolumella* S. Imai 1950 (= *Circulocolumella*)

Mesophelliaceae

Andebbia Trappe, Castellano & Amar. 1996, *Castoreum* Cooke & Massee 1887, *Chondrogaster* Maire 1925, *Gummiglobus* Trappe, Castellano & Amar. 1996, *Gummivena* Trappe & Bougher 2002, *Inoderma* Berk. 1881 (= *Mesophellia*), *Malajczukia* Trappe & Castellano 1992, *Mesophellia* Berk. 1857, *Nothocastoreum* G.W. Beaton 1984, *Potoromyces* Müll. bis ex Hollós 1902 (= *Mesophellia*)

Phallogastraceae

Phallogaster Morgan 1893, *Protophallus* Murrill 1910 (= *Protubera*), *Protubera* A. Møller 1895

Trappeaceae

Phallobata G. Cunn. 1926, *Trappea* Castellano 1990

Ordem Phallales

Incertae sedis

Saprogaster Fogel & States 2001, *Vandasias* Velen. 1922

Claustulaceae

Claustula K.M. Curtis 1926, *Gelopellis* Zeller 1939, *Kjeldsenia* Colgan, Castellano & Bougher 1995, *Phlebogaster* Fogel 1980,

Phallaceae

Aedycia Raf. 1808 (= *Mutinus*), *Alboffiella* Speg. 1898 (= *Itajahya*), *Anthurus* Kalchbr. & MacOwan 1880 (= *Clathrus*), *Aporophallus* A. Møller 1895, *Aseroë* Labill. 1806, *Aserophallus* Mont. & Lepr. 1845 (= *Clathrus*), *Blumenavia* A. Møller 1895, *Calathiscus* Mont. 1841 (= *Lysurus*), *Calvarula* Zeller 1939, *Caromyxa* Mont. 1856 (= *Mutinus*), *Clathrella* E. Fisch. 1898 (= *Clathrus*), *Clathrus* P. Micheli ex L. 1801, *Clautriavia* (Pat.) Lloyd 1909 (= *Phallus*), *Cletria* P. Browne 1756 (= *Clathrus*), *Colonnaria* Raf. 1808 (= *Clathrus*), *Colus* Cavalier & Séchier 1835, *Corynites* Berk. & M.A. Curtis 1853 (= *Mutinus*), *Cryptophallus* Peck 1897 (= *Phallus*), *Cynophallus* (Fr.) Corda 1842 (= *Mutinus*), *Desmaturus* (Schltdl.) Kalchbr. 1880 (= *Lysurus*), *Dictyobole* G.F. Atk. & Long 1902 (= *Lysurus*), *Dictyopepos* Kuhl & Hasselt 1824 (= *Phallus*), *Dictyophallus* Corda 1842 (= *Phallus*), *Dictyophora* Desv. 1809 (= *Phallus*), *Dycicia* Raf. 1808 (= *Clathrus*), *Echinophallus* Henn. 1898, *Endophallus* M. Zang & R.H. Petersen 1989, *Floccomutinus* Henn. 1895 (= *Mutinus*), *Foetidaria* A. St.-Hil. 1835 (= *Lysurus*), *Hymenophallus* Nees 1816 (= *Phallus*), *Ileodictyon* Tul. ex M. Raoul 1844, *Itajahya* A. Møller 1895, *Ithyphallus* Gray 1821 (= *Mutinus*), *Jaczevskia* Mattir. 1912 (= *Phallus*), *Jansia* Penz. 1899 (= *Mutinus*), *Junia* Dumort. 1822 (= *Phallus*), *Kalchbrennera* Berk. 1876 (= *Lysurus*), *Kirchbaumia* Schulzer 1866 (= *Phallus*), *Kobayasias* S. Imai & A. Kawam. 1958, *Kupsura* Lloyd 1924 (= *Lysurus*), *Laternea* Turpin 1822, *Leiophallus* (Fr.) Nees 1858 (= *Phallus*), *Ligiella* J.A. Sáenz 1980, *Linderia* G. Cunn. 1931 (= *Clathrus*), *Linderiella* G. Cunn. 1942 (= *Clathrus*), *Lloydia* C.H. Chow 1935 (= *Lysurus*), *Lysurus* Fr. 1823, *Morellus* Eaton 1818 (= *Phallus*), *Mutinus* Fr. 1849, *Mycopharus* Petch 1926 (= *Lysurus*), *Neolysurus* O.K. Mill., Ovrebo & Burk 1991, *Omphalophallus* Kalchbr. 1883 (= *Phallus*), *Phalloidastrum* Battarra 1755 (= *Phallus*), *Phallus* Junius ex L. 1753, *Pharus* Petch 1919 (= *Lysurus*), *Protuberella* S. Imai & A.

Kawam. 1958, *Pseudoclathrus* B. Liu & Y.S. Bau 1980, *Pseudocolus* Lloyd 1907, *Retigerus* Raddi 1829 (= *Phallus*), *Satyurus* Bosc 1811 (= *Phallus*), *Schizmaturus* (Corda) Kalchbr. 1880 (= *Lysurus*), *Simblum* Klotzsch ex Hook. 1831 (= *Lysurus*), *Sinolloydia* C.H. Chow 1936 (= *Lysurus*), *Sophronia* Pers. 1827 (= *Phallus*), *Staheliomyces* E. Fisch. 1921, *Staurophallus* Mont. 1845, *Stephanophallus* MacOwan (= *Clathrus*), *Xylophallus* (Schltld.) E. Fisch. 1933 (= *Mutinus*)

Classe Dacrymycetes

Ordem Dacrymycetales

Dacrymycetaceae

Arrhytidia Berk. & M.A. Curtis 1849 (= *Dacrymyces*), *Calocera* (Fr.) Fr. 1828, *Caloceras* Fr. ex Wallr. 1833 (= *Calocera*), *Calopposis* Lloyd 1925 (= *Calocera*), *Cerinomyces* G.W. Martin 1949, *Cerinosterus* R.T. Moore 1987, *Corynoides* Gray 1821 (= *Calocera*), *Dacrymyces* Nees 1816, *Dacryomitra* Tul. & C. Tul. 1872 (= *Calocera*), *Dacryonaema* Nannf. 1947, *Dacryopinax* G.W. Martin 1948, *Dacryopsis* Massee 1891 (= *Ditiola*), *Dacryopsida* Nees 1816 (= *Dacrymyces*), *Dacryoscyphus* R. Kirschner & Zhu L. Yang 2005, *Ditiola* Fr. 1822, *Femsjonina* Fr. 1849, *Guepiniopsis* Pat. 1883, *Heterotextus* Lloyd 1922, *Hydromycus* Raf. 1808 (= *Dacrymyces*), *Septocolla* Bonord. 1851 (= *Dacrymyces*)

Classe Tremellomycetes

(outras classes: *Agaricostilbomycetes*, *Atractiellomycetes*, *Classiculomycetes*, *Cryptomycocolacomycetes*, *Cystobasidiomycetes*, *Entorrhizomycetes*, *Exobasidiomycetes*, *Microbotryomycetes*, *Mixiomycetes*, *Pucciniomycetes*, *Ustilaginomycetes*, *Wallemiomycetes*, e 29 géneros sem classe definida, dos quais 1(2) na Família *Bartheletiaceae* e 3 na Ordem *Malasseziales*)

Incertae sedis

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

Ordem Cystofilobasidiales

Cystofilobasidiaceae

Cystofilobasidium Oberw. & Bandoni 1983, *Guehomyces* Fell & Scorzetti 2004, *Itersonia* Derx 1948, *Mrakia* Y. Yamada & Komag. 1987, *Phaffia* M.W. Mill., Yoney. & Soneda 1976, *Rhodomycus* Wettst. 1885 (= *Phaffia*), *Rhodozyma* Phaff, M.W. Mill., Yoney. & Soneda 1972, *Tausonia* Babeva 1998, *Udeniomyces* Nakase & Takem. 1992, *Xanthophyllomyces* Golubev 1995

Ordem Filobasidiales

Filobasidiaceae

Filobasidium L.S. Olive 1968

Ordem Tremellales

Incertae sedis

Sigmogloea Bandoni & J.C. Krug 2000, *Tremellina* Bandoni 1986, *Xenolachne* D.P. Rogers 1947

Carcinomycetaceae

Carcinomyces Oberw. & Bandoni 1982 (= *Syzygospora*), *Christiansenia* Hauerslev 1969, *Heterocephalacria* Berthier 1980 (= *Syzygospora*),

Syzygospora G.W. Martin 1937

Cuniculitremaeae

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

Hyaloriaceae

Helicomysa R. Kirschner & Chee J. Chen 2004, *Hyaloria* Möller 1895

Phragmoxenidiaceae

Phragmoxenidium Oberw. 1990, *Phyllogloea* Lowy 1961

Rhynchogastremataceae

Rhynchogastrema B. Metzler & Oberw. 1989

Sirobasidiaceae

Fibulobasidium Bandoni 1979, *Sirobasidium* Lagerh. & Pat. 1892

Tetragoniomycetaceae

Tetragoniomyces Oberw. & Bandoni 1981

Tremellaceae

Atelosaccharomyces Beurm. & Gougerot 1909 (= *Cryptococcus*), *Auriculibuller* Samp. & Fonseca 2004, *Biatoropsis* Räsänen

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1934, Bullera Derx 1930, Bulleribasidium J.P. Samp., M. Weiss & R. Bauer 2002, Bulleromyces Boekhout & A. Fonseca 1991, Clavariopsis Holterm. 1898 (= Holtermannia), Corticioides Lloyd 1908 (= Tremella), Cryptococcus Kütz. 1833 (= Cryptococcus Vuill.), Cryptococcus Vuill. 1901, Dermatangium Velen. 1926 (= Tremella), Dictyotremella Kobayasi 1971, Dioszegia Zsolt 1957 (= Cryptococcus), Encephalium Link 1816 (= Tremella), Epidochium Fr. 1849 (= Tremella), Filobasidiella Kwon-Chung 1976, Gelatina Raf. 1806 (= Tremella), Gyraria Nees 1816 (= Tremella), Hepataria Raf. 1808 (= Tremella), Holtermannia Sacc. & Traverso 1910, Hormomyces Bonord. 1851, Melanocryptococcus Della Torre & Cif. 1964 (= Cryptococcus), Naganishia Goto 1963 (= Cryptococcus), Neotremella Lowy 1979, Papiliotrema J.P. Samp., M. Weiss & R. Bauer 2002, Phaeotremella Rea 1912 (= Tremella), Sirotrema Bandoni 1986, Tremella Pers. 1794, Trimorphomyces Bandoni & Oberw. 1983, Tsuchiyaea Y. Yamada, H. Kawas., Itoh, I. Banno & Nakase 1988, Vanrija R.T. Moore (cf. Trichonosporaceae)

Trichosporonaceae

Apiotrichum Stautz 1931 (= Trichosporon), Asterotremella Prillinger, Lopandic & Sugita 2007, Cryptotrichosporon I. Okoli & Boekhout 2007, Geotrichoides Langeron & Talice 1932 (= Trichosporon), Hyalococcus J. Schröt. 1889 (= Trichosporon), Hyalodendron Diddens 1934, Nadsoniomyces Kudrjanzev 1932 (= Trichosporon), Neogeotrichum O. Magalh. 1932 (= Trichosporon), Phyllopta (Fr.) Fr. 1825, Protendomycopsis Windisch 1965 (= Trichosporon), Proteomyces Moses & Vianna 1913 (= Trichosporon), Trichosporon Behrend 1890, Vanrija R.T. Moore 1980 (= Trichosporon), Zoogloea Eberth 1873

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mor

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<http://www.fieldmuseum.org/myconet/>

The hyphal tip

<http://fungalgenomes.org/blog/>

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