**Appendix S2**

**Title:** Above- and belowground plant pathogens along elevational gradients: patterns and potential mechanisms

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**Table S2.1.** Literature review of the potential plant pathogenic fungal genera identified in field survey and meta-analysis.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Genus** | **Family** | **Order** | **Class** | **References\*** |
| Acremonium | Incertae\_sedis | Hypocreales | Sordariomycetes | Uchida & Aragaki, 1982; Topalidou & Shaw, 2016 |
| Acrocalymma | Acrocalymmaceae | Pleosporales | Dothideomycetes | Alcorn & Irwin, 1987; Nikandrow, 1990; Irwin *et al*., 2004 |
| Adisciso | Amphisphaeriaceae | Xylariales | Sordariomycetes | Yamamoto *et al*., 2012; Yu *et al*., 2018 |
| Aequabiliella | Phaeomoniellaceae | Phaeomoniellales | Eurotiomycetes | Schön *et al*., 2018 |
| Allantophomopsis | Phacidiaceae | Phacidiales | Leotiomycetes | Putnam, 2005; Sieber, 2019 |
| Allophoma | Didymellaceae | Pleosporales | Dothideomycetes | Gullino *et al*., 2017; Pintore *et al*., 2018; Babaahmadi *et al*., 2018 |
| Alternaria | Pleosporaceae | Pleosporales | Dothideomycetes | Nishimura & Kohmoto, 1983; Rotem, 1994; Thrall *et al*., 2001 |
| Amphobotrys | Sclerotiniaceae | Helotiales | Leotiomycetes | Yu *et al*., 2012; Coutinho *et al*., 2014 |
| Annulohypoxylon | Xylariaceae | Xylariales | Sordariomycetes | Cha *et al*., 2012; Lee *et al*., 2014 |
| Anthostoma | Diatrypaceae | Xylariales | Sordariomycetes | Saracchi *et al*., 2013; Saracchi *et al*., 2015 |
| Anthostomella | Xylariaceae | Xylariales | Sordariomycetes | Ho & Hyde, 1996 |
| Antrodia | Meripilaceae | Polyporales | Agaricomycetes | Demetriou *et al*., 2000; Tao *et al*., 2009 |
| Antrodiella | Steccherinaceae | Polyporales | Agaricomycetes | Dai *et al*., 2000; Kim *et al*., 2001 |
| Anungitea | Venturiaceae | Pleosporales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Apiognomonia | Valsaceae | Diaporthales | Sordariomycetes | Carrieri *et al*., 2011a; Carrieri *et al*., 2011b |
| Apiospora | Apiosporaceae | Xylariales | Sordariomycetes | Lambhate *et al*., 1993; Liao *et al*., 2022 |
| Aplosporella | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Jia *et al*., 2019; Wan *et al*., 2021 |
| Armillaria | Physalacriaceae | Agaricales | Agaricomycetes | Jacobs, 2005; Ostry *et al*., 2012 |
| Arthrinium | Apiosporaceae | Xylariales | Sordariomycetes | Li *et al*., 2016; Thangaraj *et al*., 2019 |
| Ascobolus | Ascobolaceae | Pezizales | Pezizomycetes | Xiang *et al*., 2021 |
| Ascochyta | Incertae\_sedis | Pleosporales | Dothideomycetes | Muehlbauer & Kaiser, 1993; Rubiales *et al*., 2009 |
| Aspergillus | Aspergillaceae | Eurotiales | Eurotiomycetes | Hu *et al*., 2016; Zhang *et al*., 2016 |
| Astrosphaeriella | Astrosphaeriellaceae | Pleosporales | Dothideomycetes | Frohlich & Hyde, 1995b |
| Athelia | Atheliaceae | Polyporales | Agaricomycetes | Ferreira *et al*., 2018; Nie *et al*., 2020 |
| Atradidymella | Didymellaceae | Pleosporales | Dothideomycetes | Davey & Currah, 2009; Davey *et al*., 2009 |
| Auratiopycnidiella | Incertae\_sedis | Diaporthales | Sordariomycetes | Crous *et al*., 2012 |
| Aureobasidium | Aureobasidium | Dothideales | Dothideomycetes | Lewandowski *et al*., 2009; Xie *et al*., 2022 |
| Avachytrium | Chytriomycetaceae | Chytridiales | Chytridiomycetes | Schön *et al*., 2018 |
| Barriopsis | Dothidotthiaceae | Pleosporales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Batcheloromyces | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Taylor *et al*., 1999; Taylor *et al*., 2001c |
| Bauerago | Microbotryaceae | Microbotryales | Microbotryomycetes | Tedersoo *et al*., 2014 |
| Beltrania | Beltraniaceae | Xylariales | Sordariomycetes | Shi *et al*., 2012; Lichtemberg *et al*., 2019 |
| Bifusella | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Bionectria | Bionectria | Hypocreales | Sordariomycetes | Ridout & Newcombe, 2015; Burbano-Figueroa *et al*., 2018 |
| Bipolaris | Pleosporaceae | Pleosporales | Dothideomycetes | Kovalenko *et al*., 2002; Lillemo *et al*., 2013 |
| Biscogniauxia | Xylariaceae | Xylariales | Sordariomycetes | Granata & Sidoti, 2004; Jurc & Ogris, 2006 |
| Bjerkandera | Meruliaceae | Polyporales | Agaricomycetes | Dai *et al*., 2000 |
| Blumeria | Erysiphaceae | Erysiphales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Boeremia | Didymellaceae | Pleosporales | Dothideomycetes | Zhao *et al*., 2016; Colmán *et al*., 2020 |
| Botryobasidium | Botryobasidiaceae | Cantharellales | Agaricomycetes | Verma & Thapa, 2005; Mohanan, 2008 |
| Botryosphaeria | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Marini & Barden, 1998; Johnson *et al*., 2001; Taylor *et al*., 2001b |
| Botryotinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Scheck *et al.*, 2003; Xue *et al*., 2016 |
| Botrytis | Sclerotiniaceae | Helotiales | Leotiomycetes | Choi *et al*., 2008; Choi *et al*., 2009 |
| Brunneosphaerella | Mycosphaerellaceae | Mycosphaerellales | Dothideomycetes | Crous *et al*., 2011b; Marin-Felix *et al*., 2019 |
| Bryochiton | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Cadophora | Incertae\_sedis | Helotiales | Leotiomycetes | Johnston *et al.*, 2005; Chen *et al.*,2010 |
| Calcarisporiella | Calcarisporiellaceae | Calcarisporiellales | Calcarisporiellomycetes | Hirose *et al*., 2012 |
| Caliciopsis | Coryneliaceae | Coryneliales | Eurotiomycetes | Tedersoo *et al*., 2014 |
| Calonectria | Nectriaceae | Hypocreales | Sordariomycetes | Booth, 1971; Lombard *et al.*,2010 |
| Calyptella | Marasmiaceae | Agaricales | Agaricomycetes | Clark *et al*., 1983; Sandys-Winsch & Jeves, 1992 |
| Camarophyllopsis | Hygrophoraceae | Agaricales | Agaricomycetes | Zhang *et al*., 2019 |
| Camarosporium | Camarosporiaceae | Pleosporales | Dothideomycetes | Ivanová, 2017 |
| Capnodium | Capnodiaceae | Capnodiales | Dothideomycetes | Summy & Little, 2008; Mesquita *et al*., 2022 |
| Catenulostroma | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Markovskaja *et al*., 2016 |
| Cenangium | Helotiaceae | Helotiales | Leotiomycetes | Jurc *et al*., 2000; Ryu *et al*., 2018 |
| Cephaliophora | Ascodesmidaceae | Pezizales | Pezizomycetes | Al-Hammadi *et al*., 2019 |
| Cephalosporium | Plectosphaerellaceae | Hypocreales | Sordariomycetes | Schmale *et al*., 2007; Carter *et al*., 2014 |
| Ceratobasidium | Ceratobasidiaceae | Cantharellales | Agaricomycetes | Murray & Burpee, 1984; Hietala *et al.*, 2001 |
| Ceratocystis | Ceratocystidaceae | Microascales | Sordariomycetes | Guimarães *et al*., 2010; Ghini *et al*., 2015 |
| Cercospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Lucas, 1958; Neuhaus *et al.*, 1991 |
| Cercosporella | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Eskandari *et al*., 2006; Machado *et al*., 2012 |
| Ceriporia | Irpicaceae | Polyporales | Agaricomycetes | Chowdhary *et al*., 2012; Mao *et al*., 2022 |
| Ceriporiopsis | Meruliaceae | Meruliaceae | Agaricomycetes | Bernicchia & Ryvarden, 2003 |
| Chaetomella | Chaetomellaceae | Chaetomellales | Leotiomycetes | Li *et al*., 2013; Cao *et al*., 2021 |
| Chaetomium | Chaetomiaceae | Sordariales | Sordariomycetes | Alejandra *et al*., 2012; Alam *et al*., 2021 |
| Chalara | Pezizellaceae | Helotiales | Helotiales | Kowalski, 2006; Halmschlager & Kirisits, 2008 |
| Chloridium | Chaetosphaeriaceae | Chaetosphaeriales | Sordariomycetes | Rodrigues de Andrade *et al*., 2009 |
| Chrysocrypta | Cryphonectriaceae | Diaporthales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Cibiessia | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Ciboria | Sclerotiniaceae | Helotiales | Leotiomycetes | Wang, 2009; Zhu *et al*., 2021 |
| Ciborinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Denton-Giles *et al*., 2013; Saracchi *et al*., 2019 |
| Cistella | Hyaloscyphaceae | Helotiales | Leotiomycetes | Yamada *et al*., 2003; Yamanobe *et al*., 2008 |
| Cladosporium | Mycosphaerellaceae | Capnodiales | Dothideomycetes | de Wit *et al.*, 1986; Ackerveken *et al.*, 1992 |
| Clarireedia | Sclerotiniaceae | Helotiales | Leotiomycetes | Marvin *et al.*, 2020 |
| Claviceps | Clavicipitaceae | Hypocreales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Clonostachys | Bionectriaceae | Hypocreales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Coccomyces | Rhytismataceae | Rhytismatales | Leotiomycetes | Petersen & Cation, 1950; Cation, 1953 |
| Cochliobolus | Pleosporaceae | Pleosporales | Dothideomycetes | Duczek *et al*., 1991; Kumar *et al*., 2001 |
| Coleophoma | Dermataceae | Helotiales | Leotiomycetes | Bianchinotti & Rajchenberg, 2004; Crous & Groenewald, 2016 |
| Colletotrichum | Phyllachoraceae | Phyllachorales | Sordariomycetes | Jeffries *et al.*, 1990; Bailey *et al.*, 1992; Freeman *et al.*, 1998 |
| Collophora | Incertae\_sedis | Incertae\_sedis | Leotiomycetes | Arzanlou *et al.*, 2016; Holland *et al.*, 2018 |
| Colpoma | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Coma | Phacidiaceae | Helotiales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Coniella | Schizoparmaceae | Diaporthales | Sordariomycetes | Barrón-Coronado *et al*., 2019; Lai *et al*., 2022 |
| Coniochaeta | Coniochaetaceae | Coniochaetales | Sordariomycetes | Ivanová& Bernadovičová, 2012; Damm *et al*., 2010 |
| Coniolariella | Xylariaceae | Xylariales | Sordariomycetes | Razaghi *et al*., 2022 |
| Coniophora | Coniophoraceae | Boletales | Agaricomycetes | Schmidhalter & Canevascini, 1993; Lee *et al.*,2004 |
| Coniosporium | Coniophoraceae | Boletales | Agaricomycetes | Liu, K. *et al*., 2019 |
| Coniothyrium | Leptosphaeriaceae | Pleosporales | Dothideomycetes | Paulitz & Bélanger, 2001; Crous *et al*., 2009 |
| Cophinforma | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Cardoso *et al*., 2019; Li, G. *et al*., 2022 |
| Coprinus | Agaricaceae | Agaricales | Agaricomycetes | Redhead & Traquair, 1981; Valdivia *et al*., 2005 |
| Cordana | Cordanaceae | Cordanales | Sordariomycetes | Brooks, 2002; Hernandez Restrepo *et al*., 2015 |
| Cordyceps | Cordycipitaceae | Hypocreales | Sordariomycetes | Jun *et al*., 1991 |
| Coriolopsis | Polyporaceae | Polyporales | Agaricomycetes | Nerud & Mišurcová, 1989; Saparrat *et al*., 2014 |
| Corticium | Corticiaceae | Corticiales | Agaricomycetes | Park *et al*., 2003; Park *et al*., 2005 |
| Corynelia | Coryneliaceae | Coryneliales | Eurotiomycetes | Assefa *et al*., 2014; Assefa *et al*., 2015 |
| Corynespora | Corynesporascaceae | Pleosporales | Dothideomycetes | Shukla *et al*., 2000; Silva *et al*., 2004 |
| Crinipellis | Marasmiaceae | Agaricales | Agaricomycetes | Evans, 1978; Pickering & Hedger, 1987; Leal *et al*., 2007 |
| Crumenulopsis | Cenangiaceae | Helotiales | Leotiomycetes | Ennos & Swales, 1991; Ennos & McConnell, 2003 |
| Cryptococcus | Cryptococcaceae | Tremellales | Tremellomycetes | Guterres *et al*., 2021 |
| Cryptosphaeria | Diatrypaceae | Xylariales | Sordariomycetes | Juzwik & French, 1990; Ma *et al*., 2016 |
| Cryptosporiopsis | Dermateaceae | Helotiales | Leotiomycetes | Dugan *et al.*, 1993; Sankaran *et al.*, 1995 |
| Cunninghamella | Cunninghamellaceae | Mucorales | Mucoromycetes | Pham & Tran, 2021 |
| Curvularia | Pleosporaceae | Pleosporales | Dothideomycetes | Olaoye, 2009; Chen *et al*., 2013 |
| Cylindrium | Nectriaceae | Hypocreales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Cylindrobasidium | Physalacriaceae | Agaricales | Agaricomycetes | Sahashi *et al*., 2010 |
| Cylindrocarpon | Nectriaceae | Hypocreales | Sordariomycetes | Unestam *et al.*, 1989; Rahman & Punja, 2005 |
| Cylindrocladiella | Nectriaceae | Hypocreales | Sordariomycetes | Scattolin & Montecchio, 2007; Inderbitzin *et al.*,2012 |
| Cylindrodendrum | Nectriaceae | Hypocreales | Sordariomycetes | Agusti-Brisach *et al*., 2016; Akgul *et al*., 2022 |
| Cylindrosympodium | Venturiaceae | Pleosporales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Cyphellophora | Cyphellophoraceae | Chaetothyriales | Eurotiomycetes | Gao *et al*., 2015 |
| Cystocoleus | Cystocoleaceae | Capnodiales | Dothideomycetes | Muggia *et al*., 2008 |
| Cytospora | Valsaceae | Diaporthales | Sordariomycetes | Rozsnyay, 1977; Royse & Ries, 1978 |
| Cyttaria | Cyttariaceae | Cyttariales | Leotiomycetes | Jayawardena *et al*., 2019 |
| Dactylaria | Incertae\_sedis | Helotiales | Leotiomycetes | Kadir *et al*., 2000; Kadir & Charudattan, 2000 |
| Dactylonectria | Nectriaceae | Hypocreales | Sordariomycetes | Gramaje *et al*., 2020 |
| Daldinia | Hypoxylaceae | Xylariales | Sordariomycetes | Robles *et al*., 2019 |
| Darkera | Phacidiaceae | Phacidiales | Leotiomycetes | Schön *et al*., 2018 |
| Dendrophoma | Incertae\_sedis | Xylariales | Sordariomycetes | Luque *et al*., 2000; Mazaro *et al*., 2006 |
| Dendryphion | Torulaceae | Pleosporales | Dothideomycetes | O'Neill *et al.*, 2000; Spitzer *et al*., 2014 |
| Dermea | Dermateaceae | Helotiales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Devriesia | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Crous *et al.* 2010 |
| Diaporthe | Diaporthaceae | Diaporthales | Sordariomycetes | Arimoto *et al.* 1986; Santos *et al*. 2011 |
| Diatrype | Diatrypaceae | Xylariales | Sordariomycetes | Luque *et al*., 2000; Ashkan *et al*., 2011 |
| Diatrypella | Diatrypaceae | Xylariales | Sordariomycetes | Lawrence *et al*., 2018; Li, Y. *et al*., 2020 |
| Didymella | Didymellaceae | Pleosporales | Dothideomycetes | Ziv & Zitter, 1992; Henning *et al*., 2005 |
| Didymosphaeria | Didymosphaeriaceae | Pleosporales | Dothideomycetes | Emua & Fajola, 1981; Emua & Fajola, 1983 |
| Diplodia | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Meyer & Pataky, 2010; Cheng, Y. *et al*., 2021 |
| Discosia | Sporocadaceae | Xylariales | Sordariomycetes | Tanaka *et al*., 2011 |
| Discostroma | Discosiaceae | Amphisphaeriales | Sordariomycetes | Tanaka *et al*., 2011 |
| Discula | Gnomoniaceae | Diaporthales | Sordariomycetes | Hagan & Mullen, 2000; Hanifeh *et al*., 2019 |
| Dissoconium | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Teodoro *et al*., 2012; Kwon *et al*., 2012 |
| Distocercospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Dothiorella | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Inoue *et al*., 2001; Rodriguez & Hernandez, 2004 |
| Drechslera | Pleosporaceae | Pleosporales | Dothideomycetes | Lewis *et al*., 1996; Murali Mohan *et al*., 2010 |
| Drepanopeziza | Dermateaceae | Helotiales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Elsinoe | Elsinoaceae | Myriangiales | Dothideomycetes | Mmbaga & Sauve, 2004; Hanson *et al*., 2011 |
| Embellisia | Pleosporaceae | Pleosporales | Dothideomycetes | Lumyong *et al*., 1984; Liu *et al*., 2016 |
| Endoconidiophora | Ceratocystidaceae | Microascales | Sordariomycetes | Steffenrem *et al*., 2016 |
| Entoloma | Entolomataceae | Agaricales | Agaricomycotina | Gryndler *et al*., 2010 |
| Entorrhiza | Entorrhizaceae | Entorrhizales | Entorrhizomycetes | Tedersoo *et al*., 2014 |
| Entyloma | Entylomataceae | Entylomatales | Exobasidiomycetes | Bloomberg *et al*., 2002; Rooney-Latham *et al*., 2017 |
| Eocronartium | Eocronartiaceae | Platygloeales | Pucciniomycetes | Tedersoo *et al*., 2014 |
| Epicoccum | Pleosporaceae | Pleosporales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Eremothecium | Eremotheciaceae | Saccharomycetales | Saccharomycetes | Kimura, 2007; Kimura *et al*., 2009 |
| Erysiphe | Erysiphaceae | Erysiphales | Leotiomycetes | Vulsteke *et al*., 1996; Gombert *et al*., 2001 |
| Erythricium | Corticiaceae | Corticiales | Agaricomycetes | Roux & Coetzee, 2007; Sebastianes *et al*., 2007 |
| Eutypa | Diatrypaceae | Xylariales | Sordariomycetes | Belhadj *et al*., 2008; Camps *et al*., 2010 |
| Eutypella | Diatrypaceae | Xylariales | Sordariomycetes | Martinez *et al*., 2003; Jurc *et al*., 2020 |
| Exobasidium | Exobasidiaceae | Exobasidiales | Exobasidiomycetes | Li & Guo, 2009; Jewell *et al*., 2021 |
| Fibroporia | Polyporaceae | Polyporales | Agaricomycetes | Larsen & Lombard, 1983; Tang *et al*., 2013 |
| Fibulorhizoctonia | Atheliaceae | Atheliales | Agaricomycetes | Wenneker *et al*., 2017; Wenneker *et al*., 2021 |
| Fomitiporia | Hymenochaetaceae | Hymenochaetales | Agaricomycetes | Nascimento *et al*., 2007; Cui & Dai, 2008 |
| Fomitopsis | Fomitopsidaceae | Polyporales | Agaricomycetes | Yuan *et al*., 2008; Jayawardena *et al*., 2020 |
| Fusarium | Nectriaceae | Hypocreales | Sordariomycetes | Snyder & Hansen, 1940; Sutton, 1982 |
| Fusicladium | Venturiaceae | Venturiales | Dothideomycetes | Rhouma *et al*., 2013; Roca *et al*., 2018 |
| Gaeumannomyces | Magnaporthaceae | Incertae\_sedis | Sordariomycetes | Graham, 1951; Thomashow & Weller, 1988 |
| Ganoderma | Ganodermataceae | Polyporales | Agaricomycetes | Jeffery Daim *et al*., 2015; Al-Obaidi *et al*., 2016 |
| Gelasinospora | Sordariaceae | Sordariales | Sordariomycetes | Wang *et al*., 2014 |
| Geosmithia | Bionectriaceae | Hypocreales | Sordariomycetes | Scala *et al*., 2007; Strzałka *et al*., 2021 |
| Geotrichum | Endomycetaceae | Saccharomycetales | Saccharomycetes | Ma *et al*., 2018; Cheng, H. *et al*., 2021 |
| Gibberella | Nectriaceae | Hypocreales | Sordariomycetes | Schroeder & Christensen, 1963; Bai & Shaner, 2004 |
| Gilbertella | Gilbertellaceae | Mucorales | Mucoromycetes | Cruz-Lachica *et al*., 2016; Cruz-Lachica *et al*., 2021 |
| Gibellulopsis | Plectosphaerellaceae | Glomerellales | Sordariomycetes | Kawaradani *et al*., 2013 |
| Gliocephalotrichum | Hypocreaceae | Hypocreales | Sordariomycetes | Nishijima *et al.*, 2002 |
| Gloeophyllum | Gloeophyllaceae | Gloeophyllales | Agaricomycetes | Qi *et al*., 2000; Cho *et al*., 2007 |
| Gloeotinia | Helotiaceae | Helotiales | Leotiomycetes | Singh *et al*., 2007; Mebalds & Price, 2010 |
| Glomerella | Glomerellaceae | Glomerellales | Sordariomycetes | Shear & Wood, 1913; Rodriguez & Yoder, 1987 |
| Gnomoniopsis | Gnomoniaceae | Diaporthales | Sordariomycetes | Gomez *et al*., 2017; Udayanga *et al*., 2021 |
| Godronia | Godroniaceae | Helotiales | Leotiomycetes | Melzer & Hoffmann, 1980; Conti *et al*., 2020 |
| Graphium | Microascaceae | Microascales | Sordariomycetes | Geldenhuis *et al*., 2001; Priyatkin *et al*., 2007 |
| Gremmenia | Hamatocanthoscyphaceae | Helotiales | Leotiomycetes | Crous *et al*., 2014; Doğmuş-Lehtijärvi *et al*., 2016 |
| Gremmeniella | Grifolaceae | Polyporales | Agaricomycetes | Lilja *et al*., 2010; Botella *et al*., 2015 |
| Grifola | Meripilaceae | Polyporales | Agaricomycetes | Tedersoo *et al*., 2014 |
| Guehomyces | Cystofilobasidiaceae | Cystofilobasidiales | Tremellomycetes | Li & Liu, 2019 |
| Guyanagaster | Physalacriaceae | Agaricales | Agaricomycetes | Koch *et al*., 2017; Kedves *et al*., 2021 |
| Gyoerffyella | Incertae\_sedis | Incertae\_sedis | Incertae\_sedis | Jankowiak *et al*., 2016 |
| Haematonectria | Nectriaceae | Hypocreales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Hansfordia | Incertae\_sedis | Incertae\_sedis | Incertae\_sedis | Hepperly, 1986 |
| Helicobasidium | Helicobasidiaceae | Helicobasidiales | Pucciniomycetes | Lutz *et al*., 2004; Mirabile & Torta, 2020 |
| Helminthosporium | Massarinaceae | Pleosporales | Dothideomycetes | Kovalenko *et al*., 2002; Arshad & Tehmina, 2005 |
| Hendersonia | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Stahl *et al*., 1988; Morin *et al*., 2010 |
| Herpotrichia | Melanommataceae | Pleosporales | Dothideomycetes | Schneider *et al*., 2009; Lilja *et al*., 2010 |
| Heterobasidion | Bondarzewiaceae | Russulales | Agaricomycetes | Vainio *et al*., 2013; Nemesio-Gorriz *et al*., 2016 |
| Heteroconium | Antennulariellaceae | Capnodiales | Dothideomycetes | Taylor *et al*., 2001b; Cheewangkoon *et al*., 2010 |
| Heterophoma | Didymellaceae | Pleosporales | Dothideomycetes | Warmund & Mihail, 2019 |
| Hortaea | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Chen *et al.*, 2012 |
| Humicola | Chaetomiaceae | Sordariales | Sordariomycetes | de Gruyter *et al*., 1992; Li, Y. L. *et al*., 2022 |
| Hymenoscyphus | Helotiaceae | Helotiales | Leotiomycetes | Timmermann *et al.*, 2011; Gross *et al.*,2012 |
| Hymenula | Incertae\_sedis | Incertae\_sedis | Incertae\_sedis | Hýsek *et al*., 2019 |
| Hyphoderma | Hyphodermataceae | Polyporales | Agaricomycetes | Marais *et al*., 2001 |
| Hyphodermella | Phanerochaetaceae | Polyporales | Agaricomycetes | Sayari *et al*., 2012; Rahimlou *et al*., 2015 |
| Hyphozyma | Pseudeurotiaceae | Thelebolales | Leotiomycetes | Tsuneda*et al*., 1997 |
| Hypocrea | Hypocreaceae | Hypocreales | Sordariomycetes | Seidl *et al*., 2006 |
| Hypoderma | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Hypohelion | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Hypomyces | Hypocreaceae | Hypocreales | Sordariomycetes | Moreau *et al.*, 1948; Filer, 1967 |
| Hypoxylon | Xylariaceae | Xylariales | Sordariomycetes | Anderson *et al.*,1956 |
| Ilyonectria | Nectriaceae | Hypocreales | Sordariomycetes | Cabral *et al*., 2012; Guan *et al*., 2020 |
| Inonotus | Hymenochaetaceae | Hymenochaetales | Agaricomycetes | Woods, 2003; Bergeron *et al*., 2006 |
| Itersonilia | Cystofilobasidiaceae | Cystofilobasidiales | Tremellomycetes | Horita & Yasuoka, 2002; Gasich *et al*., 2013 |
| Junghuhnia | Steccherinaceae | Polyporales | Agaricomycetes | Hood & Dick, 1988 |
| Kabatiella | Dothioraceae | Dothideales | Dothideomycetes | Barbetti & You, 2014; Nichols *et al*., 2016 |
| Kellermania | Planistromellaceae | Dothideales | Dothideomycetes | Quezada-Salinas *et al*., 2020 |
| Knufia | Trichomeriaceae | Chaetothyriales | Eurotiomycetes | Hutchison, 1999 |
| Kochiomyces | Spizellomycetaceae | Spizellomycetales | Chytridiomycetes | Tedersoo *et al*., 2014 |
| Kretzschmaria | Xylariaceae | Xylariales | Sordariomycetes | Palacios *et al*., 2008; Ko, 2009 |
| Lachnellula | Hyaloscyphaceae | Helotiales | Leotiomycetes | Oguchi, 1981; Giroux & Bilodeau, 2020 |
| Lachnum | Hyaloscyphaceae | Helotiales | Leotiomycetes | Miyoshi *et al*., 2007 |
| Laetisaria | Corticiaceae | Corticiales | Agaricomycetes | Diederich *et al*., 2011; Zhang *et al*., 2012 |
| Lalaria | Taphrinaceae | Taphrinales | Taphrinomycetes | Tedersoo *et al*., 2014 |
| Lambertella | Rutstroemiaceae | Helotiales | Leotiomycetes | Wiseman *et al*., 2015; Amiri *et al*., 2017 |
| Lasiodiplodia | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Sreerama Kumar & Singh, 2009; Reyes-Garcia *et al*., 2022 |
| Lecanosticta | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Cleary *et al*., 2019; van der Nest *et al*., 2019 |
| Lectera | Plectosphaerellaceae | Glomerellales | Sordariomycetes | Cannon *et al*., 2012; Wang *et al*., 2021 |
| Lecythophora | Coniochaetaceae | Coniochaetales | Sordariomycetes | Leonhardt *et al*., 2018 |
| Leptodontidium | Leptodontidiaceae | Helotiales | Leotiomycetes | Weber & Entrop, 2017 |
| Leptosphaeria | Leptosphaeriaceae | Pleosporales | Dothideomycetes | Goodwin & Annis, 1991; West *et al.*,2001 |
| Leptosphaerulina | Pleosporaceae | Pleosporales | Dothideomycetes | Thal & Campbell, 1986; Barbetti, 1995 |
| Leptospora | Incertae\_sedis | Dothideales | Dothideomycetes | Crous *et al*., 2006a |
| Leucostoma | Valsaceae | Diaporthales | Sordariomycetes | Pluim *et al*., 1994; Romanazzi *et al*., 2012 |
| Libertella | Diatrypaceae | Xylariales | Sordariomycetes | Hind, 1981; Mostert *et al*., 2001 |
| Limonomyces | Corticiaceae | Corticiales | Agaricomycetes | Zhang *et al*., 2013; Xu *et al*., 2021 |
| Lirula | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Lophiostoma | Lophiostomataceae | Pleosporales | Dothideomycetes | Hyde, 1995; Halleen *et al.*, 2005 |
| Lophodermium | Rhytismataceae | Rhytismatales | Leotiomycetes | Diwani & Millar, 1987; Phillips & Burdekin, 1992 |
| Lophomerum | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Lycoperdon | Lycoperdaceae | Agaricales | Basidiomycetes | Miller *et al*., 2007 |
| Macrophomina | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Vural & Soylu, 2012; Pandey *et al*., 2018 |
| Magnaporthe | Magnaporthaceae | Incertae\_sedis | Sordariomycetes | Park *et al*., 2005; Cho *et al*., 2006 |
| Marasmiellus | Omphalotaceae | Agaricales | Agaricomycetes | Latterell, 1984; Amoako-Attah *et al*., 2020 |
| Marasmius | Marasmiaceae | Agaricales | Agaricomycetes | Amoako-Attah *et al*., 2020; Ali *et al*., 2021 |
| Massaria | Massariaceae | Pleosporales | Dothideomycetes | Schmitt *et al*., 2014 |
| Massarina | Massariaceae | Pleosporales | Dothideomycetes | Liang *et al*., 2016 |
| Mastigosporium | Ploettnerulaceae | Helotiales | Leotiomycetes | Welty, 1991 |
| Melampsora | Melampsoraceae | Pucciniales | Pucciniomycetes | Wojdyła, 2010; Kimic *et al*., 2021 |
| Melanconiella | Melanconidaceae | Diaporthales | Sordariomycetes | Du *et al*., 2017 |
| Melanconis | Melanconidaceae | Diaporthales | Sordariomycetes | Fan *et al*., 2016; Fan *et al*., 2018 |
| Melanconium | Melanconidaceae | Diaporthales | Sordariomycetes | Belisario, 1999 |
| Melanodothis | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Metulocladosporiella | Metulocladosporiella | Chaetothyriales | Eurotiomycetes | Crous *et al*., 2006b; Crous *et al*., 2021 |
| Microascus | Microascaceae | Microascales | Sordariomycetes | Mirzaee *et al*., 2010; Yang, J. *et al*., 2020 |
| Microbotryum | Microbotryaceae | Microbotryales | Microbotryomycetes | Ngugi & Scherm, 2006; Bagdasarova *et al*., 2010 |
| Microcyclospora | Incertae\_sedis | Incertae\_sedis | Ascomycetes | Arzanlou & Bakhshi, 2011; Surup *et al*., 2014 |
| Microdiplodia | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Shreemali, 1970; Shreemali, 1973 |
| Microdochium | Hyponectriaceae | Xylariales | Sordariomycetes | Simpson *et al.*, 2001; Glynn & Edwards, 2010 |
| Microsphaeropsis | Montagnulaceae | Pleosporales | Dothideomycetes | Pethybridge *et al*., 2008; Crous *et al*., 2011b |
| Microstroma | Microstromataceae | Microstromatales | Exobasidiomycetes | Kurt *et al*., 2003; Lutz *et al*., 2018 |
| Moellerodiscus | Sclerotiniaceae | Helotiales | Leotiomycetes | Brede, 1991; Goatley & Schmidt, 1994 |
| Mollisia | Dermateaceae | Helotiales | Leotiomycetes | Iurku, 1978; Jaczewska-Kalicka, 2002 |
| Monilinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Haramoto *et al*., 2006; Percival *et al*., 2018 |
| Monochaetia | Amphisphaeriaceae | Xylariales | Sordariomycetes | Olembo, 1983; Aktar & Shamsi, 2021 |
| Monographella | Hyponectriaceae | Xylariales | Sordariomycetes | Marcinkonis *et al*., 2002; McCoy *et al*., 2019 |
| Monosporascus | Diatrypaceae | Xylariales | Sordariomycetes | Mertely *et al*., 1991; Martyn & Miller, 1996 |
| Mucor | Mucoraceae | Mucorales | Mucoromycetes | Rodriguez & Hernandez, 2004; Wu *et al*., 2021 |
| Mycena | Mycenaceae | Agaricales | Agaricomycetes | Quesada Chanto *et al*., 1996; Granados-Montero *et al*., 2020 |
| Mycocentrospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | O'Neill, 1985; You *et al*., 2022 |
| Mycochaetophora | Incertae\_sedis | Helotiales | Leotiomycetes | Kobayashi *et al*., 2009; Nekoduka *et al*., 2013 |
| Mycodiella | Mycosphaerellaceae | Capnodiales | Dothideomycetes | EFSA PLH Panel *et al*., 2018 |
| Mycoleptodiscus | Magnaporthaceae | Incertae\_sedis | Sordariomycetes | Shearer, 1996; Watanabe *et al.*,1997 |
| Mycopappus | Sclerotiniaceae | Helotiales | Leotiomycetes | Suto & Kawai, 2000; Tomoshevich, 2019 |
| Mycosphaerella | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Crous, 2009; Stukenbrock *et al.*,2010 |
| Myrothecium | Incertae\_sedis | Hypocreales | Sordariomycetes | Bean *et al.*, 1984; Boyette *et al.*, 2001 |
| Nectria | Nectriaceae | Hypocreales | Sordariomycetes | Ehrlich, 1934; Manion & French, 1967 |
| Nemania | Xylariaceae | Xylariales | Sordariomycetes | Yang, A. *et al*., 2020; Li, Y. *et al*., 2022 |
| Neoascochyta | Didymellaceae | Didymellaceae | Dothideomycetes | Golzar *et al*., 2019; Kinnunen-Grubb *et al*., 2020 |
| Neocamarosporium | Neocamarosporiaceae | Pleosporales | Dothideomycetes | Vaghefi *et al*., 2019; Pethybridge *et al*., 2022 |
| Neocatenulostroma | Neocatenulostroma | Mycosphaerellales | Mycosphaerellales | Markovskaja *et al*., 2016; Behnke-Borowczyk *et al*., 2019 |
| Neocosmospora | Nectriaceae | Hypocreales | Sordariomycetes | Guarnaccia *et al*., 2022; Yu *et al*., 2022 |
| Neoerysiphe | Erysiphaceae | Erysiphales | Leotiomycetes | Bahçecioǧlu *et al*., 2006; Cadena-Iñiguez *et al*., 2022 |
| Neofabraea | Dermateaceae | Helotiales | Leotiomycetes | Trouillas, 2017; Sinha & Shekhawat, 2019 |
| Neofusicoccum | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Li, M. *et al*., 2020; Abouzkhar *et al*., 2022 |
| Neonectria | Nectriaceae | Hypocreales | Sordariomycetes | Loo, 2009; Gomdola *et al*., 2022 |
| Neoscytalidium | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Polizzi *et al*., 2009; Suwannarach *et al*., 2018 |
| Neottiosporina | Incertae\_sedis | Incertae\_sedis | Incertae\_sedis | Sutton & Wu, 1995; McCoy *et al*., 2019 |
| Nigrospora | Trichosphaeriaceae | Trichosphaeriales | Sordariomycetes | Mei *et al*., 2019; Zhang *et al*., 2022 |
| Nothophaeocryptopus | Mycosphaerellaceae | Mycosphaerellales | Dothideomycetes | Gómez-Gallego *et al*., 2019; Shaw *et al*., 2021 |
| Obelidium | Chytridiaceae | Chytridiales | Chytridiomycetes | Tedersoo *et al*., 2014 |
| Oculimacula | Dermateaceae | Helotiales | Leotiomycetes | McGrann *et al*., 2015; Ajigboye *et al*., 2016 |
| Olpidium | Olpidiaceae | Olpidiales | Olpidiomycetes | Bos & Huijberts, 1996; Mallor *et al*., 2006 |
| Ophiobolus | Leptosphaeriaceae | Pleosporales | Dothideomycetes | Deacon, 1973; Zinchenko *et al*., 2012 |
| Ophiognomonia | Gnomoniaceae | Diaporthales | Sordariomycetes | Walker *et al*., 2012; Yang, C. *et al*., 2021 |
| Ophiostoma | Ophiostomataceae | Ophiostomatales | Sordariomycetes | Gibbs, 1978 |
| Paecilomyces | Aspergillaceae | Eurotiales | Eurotiomycetes | Biango-Daniels *et al*., 2019; Wang & Hodge, 2022 |
| Pallidocercospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Guo *et al*., 2019 |
| Paraconiothyrium | Montagnulaceae | Pleosporales | Dothideomycetes | Ligoxigakis *et al*., 2013; Guarnaccia *et al*., 2022 |
| Paraphaeosphaeria | Montagnulaceae | Pleosporales | Dothideomycetes | Lee *et al*., 2005; Ding *et al*., 2020 |
| Paraphoma | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Cao *et al*., 2020 |
| Parastagonospora | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Osman *et al*., 2016; Păunescu *et al*., 2022 |
| Parmularia | Parmulariaceae | Incertae\_sedis | Dothideomycetes | Tedersoo *et al*., 2014 |
| Passalora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Park *et al*., 2016; Leite *et al*., 2018 |
| Peltaster | Incertae\_sedis | Incertae\_sedis | Dothideomycetes | Medjedović *et al*., 2014 |
| Penidiella | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Nosrati *et al*., 2010 |
| Perenniporia | Polyporaceae | Polyporales | Agaricomycetes | Cui *et al*., 2007; Yuan *et al*., 2008 |
| Periconia | Didymellaceae | Pleosporales | Dothideomycetes | Khan & Misra, 2000; Sarkar *et al*., 2019 |
| Perisporiopsis | Parodiopsidaceae | Incertae\_sedis | Dothideomycetes | Tedersoo *et al*., 2014 |
| Pesotum | Ophiostomataceae | Ophiostomatales | Sordariomycetes | Geldenhuis *et al*., 2001; Geldenhuis *et al*., 2004 |
| Pestalotiopsis | Amphisphaeriaceae | Xylariales | Sordariomycetes | Venkatasubbaiah & Van Dyke, 1991; Ding *et al.*, 2008 |
| Petrakia | Melanommataceae | Pleosporales | Dothideomycetes | Gross *et al.*, 2017 |
| Pezicula | Dermateaceae | Helotiales | Leotiomycetes | Kehr, 1991; Doruchowski *et al*., 2017 |
| Phacellium | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Shin & Kim, 2002; Horvath *et al*., 2015 |
| Phacidiopycnis | Rhytismataceae | Rhytismatales | Leotiomycetes | Elliott *et al*., 2014; Sikdar *et al*., 2019 |
| Phacidium | Phacidiaceae | Phacidiales | Leotiomycetes | Kurkela, 1997; Lilja *et al*., 2010 |
| Phaeoacremonium | Togniniaceae | Togniniales | Sordariomycetes | Pithan *et al*., 2021; Raimondo *et al*., 2022 |
| Phaeobotryon | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Weiland *et al*., 2016; Chen *et al*., 2019 |
| Phaeobotryosphaeria | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Varga *et al*., 2012 |
| Phaeococcomyces | Herpotrichiellaceae | Chaetothyriales | Eurotiomycetes | Moreno-Rico *et al*., 2014 |
| Phaeocryptopus | Dothioraceae | Dothideales | Dothideomycetes | Winton *et al*., 2007a; Winton *et al*., 2007b |
| Phaeolus | Laetiporaceae | Polyporales | Agaricomycetes | Simpson & May, 2002 |
| Phaeomoniella | Herpotrichiellaceae | Chaetothyriales | Eurotiomycetes | Kakalíková *et al.*,2006; McLean *et al.*, 2009 |
| Phaeophleospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Taylor *et al.*, 2001a; Hood *et al.*, 2002 |
| Phaeoseptoria | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Sharma & Mohanan, 1981; Belisario, 1993 |
| Phaeosphaeria | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Vieira *et al*., 2009; Berger *et al*., 2020 |
| Phaeosphaeriopsis | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Thambugala *et al*., 2014; Al-Jaradi *et al*., 2020 |
| Phellinus | Hymenochaetaceae | Hymenochaetales | Agaricomycetes | Wu *et al*., 2011; Tzean *et al*., 2016 |
| Phialocephala | Mollisiaceae | Helotiales | Leotiomycetes | Tellenbach *et al*., 2013; Wong *et al*., 2015 |
| Phialophora | Herpotrichiellaceae | Chaetothyriales | Dothideomycetes | McKeen, 1952; Ajello *et al.*, 1974; Baker, 1980 |
| Phlogicylindrium | Amphisphaeriaceae | Xylariales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Phlyctochytrium | Chytridiaceae | Chytridiales | Chytridiomycetes | Tedersoo *et al*., 2014 |
| Phoma | Pleosporaceae | Pleosporales | Dothideomycetes | Reddy *et al.*, 1998; Onfroy *et al.*, 1999; Jasiński *et al.*, 2009 |
| Phomopsis | Valsaceae | Diaporthales | Sordariomycetes | Udayanga *et al.*, 2011 |
| Phyllachora | Phyllachoraceae | Phyllachorales | Sordariomycetes | Shree *et al*., 2000; Kobayashi et al., 2003a |
| Phyllactinia | Erysiphaceae | Erysiphales | Leotiomycetes | Sudhakar *et al*., 2000; Surma *et al*., 2022 |
| Phyllosticta | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Shree *et al*., 2000; Kobayashi *et al*., 2003b |
| Physalospora | Hyponectriaceae | Xylariales | Sordariomycetes | Taylor et al., 2001b; Li, B. *et al*., 2020 |
| Physisporinus | Meripilaceae | Polyporales | Agaricomycetes | Schwarze & Schubert, 2011; Wu *et al*., 2017 |
| Pilidiella | Schizoparmaceae | Diaporthales | Sordariomycetes | van Niekerk *et al*., 2004; Miranda *et al*., 2012 |
| Pilidium | Incertae\_sedis | Helotiales | Leotiomycetes | Karimi *et al*., 2016; Mijeong *et al*., 2017 |
| Piloderma | Pilodermataceae | Atheliales | Agaricomycetes | Schrey *et al*., 2012 |
| Pithomyces | Pleosporaceae | Pleosporales | Dothideomycetes | Ahonsi *et al*., 2010; Nasehi *et al*., 2014 |
| Pithya | Sarcoscyphaceae | Pezizales | Pezizomycetes | Tedersoo *et al*., 2014 |
| Plagiostoma | Gnomoniaceae | Diaporthales | Sordariomycetes | Frohlich & Hyde, 1995a; Walker *et al*., 2014 |
| Platygloea | Platygloeaceae | Platygloeales | Pucciniomycetes | Tedersoo *et al*., 2014 |
| Plectosphaerella | Plectosphaerellaceae | Glomerellales | Sordariomycetes | Usami *et al*., 2015; Raimondo & Carlucci, 2018; Tao *et al*., 2021 |
| Plenodomus | Leptosphaeriaceae | Pleosporales | Dothideomycetes | Claassen *et al*., 2021; Safi *et al*., 2021 |
| Pleochaeta | Erysiphaceae | Erysiphales | Leotiomycetes | Fernandez-Pavia *et al*., 2014; Lee *et al*., 2019 |
| Pleospora | Pleosporaceae | Pleosporales | Dothideomycetes | O'Neill *et al.*, 2000; Köhl *et al*., 2009 |
| Pleurostoma | Calosphaeriaceae | Calosphaeriales | Sordariomycetes | Varela *et al*., 2016; Lawrence *et al*., 2021 |
| Pleurostomophora | Pleurostomataceae | Calosphaeriales | Calcarisporiellomycetes | Carlucci *et al*., 2015; Olmo *et al*., 2015 |
| Podosphaera | Erysiphaceae | Erysiphales | Leotiomycetes | Jankovics *et al*., 2011; Lee, 2012 |
| Polycephalomyces | Ophiocordycipitaceae | Hypocreales | Sordariomycetes | Wang, Y. B. *et al*., 2015; Zhong *et al*., 2016 |
| Polyporus | Polyporaceae | Polyporales | Agaricomycetes | Yang & Yu, 2009; Tanki *et al*., 2011 |
| Polyscytalum | Incertae\_sedis | Xylariales | Sordariomycetes | Lees *et al*., 2009; Nærstad *et al*., 2012 |
| Postia | Dacryobolaceae | Polyporales | Agaricomycetes | Carlson & Jellison, 2010; Wei *et al*., 2008 |
| Potebniamyces | Rhytismataceae | Rhytismatales | Leotiomycetes | Sholberg *et al*., 2010; Xiao & Boal, 2013 |
| Powellomyces | Powellomycetaceae | Spizellomycetales | Spizellomycetes | Tedersoo *et al*., 2014 |
| Preussia | Sporormiaceae | Pleosporales | Dothideomycetes | Schön *et al*., 2018 |
| Protomyces | Protomycetaceae | Taphrinales | Taphrinomycetes | Singh *et al*., 2003; Choudhary *et al*., 2021 |
| Protoventuria | Venturiaceae | Pleosporales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Pseudocercospora | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Braun & Dick, 2002; Kirk *et al.*, 2008 |
| Pseudocercosporella | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Mehrotra, & Verma, 1992; van de Wouw *et al*., 2016 |
| Pseudofusicoccum | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Silveira *et al*., 2018; Sessa *et al*., 2021 |
| Pseudoidium | Erysiphaceae | Erysiphales | Leotiomycetes | Pastirčáková & Pastirčák, 2013; Liu *et al*., 2015 |
| Pseudonectria | Nectriaceae | Hypocreales | Sordariomycetes | Salgado-Salazar *et al*., 2019; Shin *et al*., 2022 |
| Pseudopestalotiopsis | Sporocadaceae | Xylariales | Sordariomycetes | Tao *et al*., 2020 |
| Pseudophialophora | Magnaporthaceae | Magnaporthales | Sordariomycetes | Luo *et al.*, 2015 |
| Pseudopithomyces | Didymosphaeriaceae | Pleosporales | Dothideomycetes | Perello *et al*., 2017 |
| Pseudoplagiostoma | Pseudoplagiostomataceae | Diaporthales | Sordariomycetes | Wang *et al*., 2016; Zhou, Z. Y. *et al*., 2022 |
| Pseudozyma | Ustilaginaceae | Ustilaginales | Ustilaginomycetes | Tedersoo *et al*., 2014 |
| Puccinia | Pucciniaceae | Pucciniales | Pucciniomycetes | Hawker, 1966; Roy *et al.*, 1998 |
| Pycnopeziza | Sclerotiniaceae | Helotiales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Pyrenochaeta | Incertae\_sedis | Pleosporales | Dothideomycetes | Goodenough & Mav, 1973; Doganlar *et al.*,1998 |
| Pyrenochaetopsis | Pyrenochaetopsidaceae | Pleosporales | Dothideomycetes | da Silva *et al*., 2019 |
| Pyrenopeziza | Ploettnerulaceae | Helotiales | Leotiomycetes | Pasonen *et al*., 2004; Carmody *et al*., 2017 |
| Pyrenophora | Pleosporaceae | Pleosporales | Dothideomycetes | McLean *et al*., 2010; Silvar *et al*., 2010 |
| Pyricularia | Magnaporthaceae | Incertae\_sedis | Sordariomycetes | Green *et al*., 1998; Arshad & Tehmina, 2005 |
| Racodium | Incertae\_sedis | Capnodiales | Dothideomycetes | Sakamoto & Miyamaoto, 2005; Iwakiri *et al*., 2021 |
| Raffaelea | Ophiostomataceae | Ophiostomatales | Sordariomycetes | Sankaran *et al*., 2012; Carabez *et al*., 2018 |
| Ramichloridium | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Pont, 1960; Arzanlou *et al.*, 2007 |
| Ramularia | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Makepeace *et al*., 2007; McGrann *et al*., 2020 |
| Readeriella | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Macauley & Thrower, 1965; Damm *et al.*, 2008 |
| Resinicium | Rickenellaceae | Hymenochaetales | Agaricomycetes | Schonhar, 1996 |
| Rhexocercosporidium | Incertae\_sedis | Helotiales | Leotiomycetes | Reeleder *et al*., 2006; Reeleder *et al*., 2007 |
| Rhizidium | Chytridiaceae | Chytridiales | Chytridiomycetes | Tedersoo *et al*., 2014 |
| Rhizoctonia | Incertae\_sedis | Rhizoctonia | Sordariomycetes | Lannou & Savary, 1991; Basandrai *et al*., 1999 |
| Rhizophlyctis | Rhizophlyctidaceae | Rhizophlyctidales | Rhizophlyctidomycetes | Lange *et al*., 2019 |
| Rhizopus | Mucoraceae | Mucorales | Mucoromycetes | Gulya *et al*., 1991; Saha *et al*., 2012 |
| Rhizopycnis | Incertae\_sedis | Incertae\_sedis | Dothideomycetes | Biernacki & Bruton, 2000; Armengol *et al*., 2003 |
| Rhizosphaera | Dothideaceae | Dothideales | Dothideomycetes | You *et al*., 2013; Monteiro *et al*., 2022 |
| Rhodotorula | Sporidiobolaceae | Sporidiobolales | Microbotryomycetes | Moussa *et al*., 2012; Wang, S. X. *et al*., 2015 |
| Rhynchosporium | Incertae\_sedis | Helotiales | Leotiomycetes | Makepeace *et al*., 2007; McLean *et al*., 2010 |
| Rhytisma | Rhytismataceae | Rhytismatales | Leotiomycetes | Hou *et al*., 2010; Kimic *et al*., 2021 |
| Rickenella | Repetobasidiaceae | Hymenochaetales | Agaricomycetes | Tedersoo *et al*., 2014 |
| Rigidoporus | Meripilaceae | Polyporales | Agaricomycetes | Madushani *et al*., 2014; Goh *et al*., 2018 |
| Roesleria | Incertae\_sedis | Helotiales | Leotiomycetes | Miles & Schilder, 2009; Neuhauser *et al*., 2011 |
| Rosellinia | Xylariaceae | Xylariales | Sordariomycetes | Kleina *et al*., 2018; Telengech *et al*., 2020 |
| Rosenscheldiella | Venturiaceae | Pleosporales | Dothideomycetes | Sultan *et al*., 2011 |
| Roseodiscus | Helotiaceae | Helotiales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Rutstroemia | Rutstroemiaceae | Helotiales | Leotiomycetes | Masi *et al*., 2018; Salgado-Salazar *et al*., 2018 |
| Saccharata | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Saccharicola | Lophiostomataceae | Pleosporales | Dothideomycetes | Eriksson & Hawksworth, 2003 |
| Sarocladium | Sarocladiaceae | Hypocreales | Sordariomycetes | Boa & Brady, 1987; Bridge *et al*., 1989 |
| Sawadaea | Erysiphaceae | Erysiphales | Leotiomycetes | Jiang *et al*., 2019; Kimic *et al*., 2021 |
| Schizophyllum | Schizophyllaceae | Agaricales | Agaricomycetes | van Toor *et al*., 2005; Yang, A. *et al*., 2020 |
| Scirrhia | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Holdenrieder & Sieber, 1995; Crous *et al*., 2011a |
| Scleroconidioma | Incertae\_sedis | Incertae\_sedis | Dothideomycetes | Tsuneda *et al*., 2001 |
| Scleromitrula | Rutstroemiaceae | Helotiales | Leotiomycetes | Kishi, 1998; Hong *et al.*, 2007 |
| Sclerotinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Van de Wouw *et al*., 2016; Inturrisi *et al*., 2021 |
| Scolecobasidium | Sympoventuriaceae | Venturiales | Dothideomycetes | Crous *et al*., 2021 |
| Scopulariopsis | Microascaceae | Microascales | Sordariomycetes | Gaur *et al*., 1988 |
| Scytalidium | Incertae\_sedis | Helotiales | Leotiomycetes | Barua *et al.*,2007; Kang *et al.*,2010 |
| Seimatosporium | Amphisphaeriaceae | Xylariales | Sordariomycetes | Colmán *et al*., 2018; Liu, Z. *et al*., 2019 |
| Seiridium | Amphisphaeriaceae | Xylariales | Sordariomycetes | Graniti, 1998; Rocca *et al*., 2019 |
| Selenophoma | Dothioraceae | Dothideales | Dothideomycetes | Latterell *et al*., 1986; Polley *et al*., 1993 |
| Septobasidium | Septobasidiaceae | Septobasidiales | Pucciniomycetes | Choi *et al*., 2016 |
| Septoria | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Brown-Guedira *et al*., 1996; Wiik & Ewaldz, 2009 |
| Septoriella | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Andrianova & Minter, 2007; Marin-Felix *et al*., 2019 |
| Serpula | Serpulaceae | Boletales | Agaricomycetes | Toft, 1992; Engh *et al*., 2010 |
| Setophoma | Phaeosphaeriaceae | Pleosporales | Dothideomycetes | Phookamsak *et al*., 2014; Sayago *et al*., 2020 |
| Setosphaeria | Pleosporaceae | Pleosporales | Dothideomycetes | Vieira *et al*., 2014; Arunakumar *et al*., 2019 |
| Simplicillium | Cordycipitaceae | Hypocreales | Sordariomycetes | Chen *et al*., 2008; Gómez-De La Cruz *et al*., 2018 |
| Sirococcus | Gnomoniaceae | Diaporthales | Sordariomycetes | Kirisits *et al*., 2007; Lilja *et al*., 2010 |
| Skeletocutis | Incrustoporiaceae | Polyporales | Agaricomycetes | Niemelä & Dai, 1997 |
| Scleroderris | Helotiaceae | Helotiales | Leotiomycetes | Ayer *et al*., 1989; Lilja *et al*., 2010 |
| Sordaria | Sordariaceae | Sordariales | Sordariomycetes | Glynn *et al*., 2015; Ivanová *et al*., 2016 |
| Sparassis | Sparassidaceae | Polyporales | Agaricomycetes | Dai *et al*., 2000; Shu & Li, 2017 |
| Sphaceloma | Elsinoaceae | Myriangiales | Dothideomycetes | Butin & Kehr, 2004; Rozwalka *et al*., 2020 |
| Sphacelotheca | Microbotryaceae | Microbotryales | Microbotryomycetes | Peterson *et al*., 2009; Wang *et al*., 2012 |
| Spencermartinsia | Dothidotthiaceae | Pleosporales | Dothideomycetes | Morales *et al*., 2012; González-Domínguez *et al*., 2017 |
| Sphaeropsis | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Chen, J. *et al*., 2018; Dai *et al*., 2021 |
| Sphaerostilbella | Hypocreaceae | Hypocreales | Sordariomycetes | Ekanayake *et al*., 2021 |
| Sphaerulina | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Dunnell & LeBoldus, 2017; Chen *et al*., 2022 |
| Spirosphaera | Tricladiaceae | Helotiales | Leotiomycetes | Voglmayr *et al*., 2011 |
| Spizellomyces | Spizellomycetaceae | Spizellomycetales | Spizellomycetes | Chen, S. *et al*., 2018 |
| Sporisorium | Ustilaginaceae | Ustilaginales | Ustilaginomycetes | Ngugi *et al*., 2002; Tegegne *et al*., 2008 |
| Sporobolomyces | Sporidiobolaceae | Sporidiobolales | Microbotryomycetes | Furuya *et al*., 2012 |
| Sporormiella | Sporormiaceae | Pleosporales | Dothideomycetes | Do Amaral *et al*., 2005 |
| Sporothrix | Ophiostomataceae | Ophiostomatales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Stachybotrys | Stachybotryaceae | Stachybotryaceae | Sordariomycetes | Zhao *et al*., 2010; Raghavendra & Newcombe, 2013 |
| Stagonospora | Massarinaceae | Pleosporales | Dothideomycetes | Wiik & Ewaldz, 2009; Kriuchkova *et al*., 2010 |
| Stagonosporopsis | Didymellaceae | Pleosporales | Dothideomycetes | Dong *et al*., 2021; Zhou, J. *et al*., 2022 |
| Stegocintractia | Ustilaginaceae | Ustilaginales | Ustilaginomycetes | Tedersoo *et al*., 2014 |
| Stemphylium | Pleosporaceae | Pleosporales | Dothideomycetes | Tomioka *et al*., 2020; Spawton *et al*., 2021 |
| Stereum | Stereaceae | Russulales | Agaricomycetes | Goddard & Tabacchi, 2006; Hamada *et al*., 2015 |
| Stictis | Stictidaceae | Ostropales | Lecanoromycetes | Taylor *et al*., 2001b; Frisullo *et al*., 2014 |
| Strelitziana | Incertae\_sedis | Chaetothyriales | Eurotiomycetes | Zhang *et al*., 2009 |
| Stromatinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Elshahawy *et al*., 2017; Elshahawy *et al*., 2021 |
| Sydowia | Dothioraceae | Dothideales | Dothideomycetes | Bahcecioglu *et al*., 2009; Guertin *et al*., 2019 |
| Sympodiomycopsis | Microstromataceae | Microstromatales | Exobasidiomycetes | Tedersoo *et al*., 2014 |
| Synchytrium | Synchytriaceae | Chytridiales | Chytridiomycetes | Price *et al*., 1982; Harder & Smartt, 1992 |
| Talaromyces | Trichocomaceae | Eurotiales | Eurotiomycetes | Mukhtar *et al*., 2019; Stošić *et al*., 2020 |
| Tapesia | Dermateaceae | Helotiales | Leotiomycetes | Kurowski *et al*., 2005; Cwalina-Ambroziak *et al*., 2021 |
| Taphrina | Taphrinaceae | Taphrinales | Taphrinomycetes | Thakur *et al*., 1991; Adekunle *et al*., 2005 |
| Tephrocybe | Tricholomataceae | Agaricales | Agaricomycetes | Davey & Currah, 2006 |
| Teratosphaeria | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Crous *et al.*, 2008; Hunter *et al.*, 2009; Chen *et al.*, 2011 |
| Thanatephorus | Ceratobasidiaceae | Cantharellales | Agaricomycetes | Tedersoo *et al*., 2014 |
| Thekopsora | Pucciniastraceae | Pucciniales | Pucciniomycetes | Pazdiora *et al*., 2019; Ribeiro & Spósito, 2022 |
| Thelonectria | Nectriaceae | Hypocreales | Sordariomycetes | Manici *et al*., 2013; Skaltsas & Salgado-Salazar, 2020 |
| Thyrostroma | Incertae\_sedis | Pleosporales | Dothideomycetes | Rasool *et al*., 2020 |
| Thysanophora | Trichocomaceae | Eurotiales | Eurotiomycetes | Polyakova *et al*., 1995; Vetrova *et al*., 1995 |
| Tiarosporella | Botryosphaeriaceae | Botryosphaeriales | Dothideomycetes | Karadži, 1998; Sharifi-Tehrani *et al*., 2005 |
| Tilletia | Tilletiaceae | Tilletiales | Exobasidiomycetes | Tedersoo *et al*., 2014 |
| Tilletiaria | Tilletiariaceae | Georgefischeriales | Exobasidiomycetes | Qhanya *et al*., 2015 |
| Togninia | Togniniaceae | Diaporthales | Sordariomycetes | Mostert *et al*., 2006; Gubler *et al*., 2007 |
| Torula | Torulaceae | Pleosporales | Dothideomycetes | Nallathambi & Umamaheswari, 2001; Mariscal-Amaro *et al*., 2017 |
| Trametes | Polyporaceae | Polyporales | Agaricomycetes | Campos-Rivero *et al*., 2019 |
| Trechispora | Hydnodontaceae | Trechisporales | Agaricomycetes | Wilkinson, 1987a; Wilkinson, 1987b |
| Trichaptum | Polyporaceae | Polyporales | Agaricomycetes | Kobro, 2001; Grand *et al*., 2008 |
| Trichometasphaeria | Lophiostomataceae | Pleosporales | Dothideomycetes | Kansara *et al*., 2012; Kansara & Joshi, 2017 |
| Trichothecium | Incertae\_sedis | Hypocreales | Hypocreales | Ahmad, 1970; Yang, Y. *et al*., 2021 |
| Truncatella | Amphisphaeriaceae | Xylariales | Sordariomycetes | Raghavendra & Newcombe, 2013; Sokolova *et al*., 2022 |
| Tryblidiopsis | Rhytismataceae | Rhytismatales | Leotiomycetes | Tedersoo *et al*., 2014 |
| Tubakia | Tubakiaceae | Diaporthales | Sordariomycetes | Yun & Kim, 2020; Park *et al*., 2021 |
| Typhula | Typhulaceae | Agaricales | Agaricomycetes | Ikeda et al., 2016; Ikeda *et al*., 2017 |
| Ulocladium | Pleosporaceae | Pleosporales | Dothideomycetes | Ziv & Zitter, 1992; Vannini & Vettraino, 2000 |
| Urocystis | Urocystidaceae | Urocystidales | Ustilaginomycetes | Mackie & McKirdy, 2002; McBeath *et al*., 2008 |
| Uromyces | Pucciniaceae | Pucciniales | Pucciniomycetes | Rubiales *et al*., 2009; Rumpf *et al*., 2010 |
| Ursicollum | Cryphonectriaceae | Diaporthales | Sordariomycetes | Tedersoo *et al*., 2014 |
| Ustacystis | Urocystidaceae | Urocystidales | Ustilaginomycetes | Tedersoo *et al*., 2014 |
| Ustilaginoidea | Incertae\_sedis | Hypocreales | Sordariomycetes | Bloomberg *et al*., 2002; Fan *et al*., 2019 |
| Ustilago | Ustilaginaceae | Ustilaginales | Ustilaginomycetes | Arshad & Tehmina, 2005; Banyal *et al*., 2016 |
| Ustilentyloma | Ustilentylomataceae | Microbotryales | Microbotryomycetes | Tedersoo *et al*., 2014 |
| Uwebraunia | Dissoconiaceae | Capnodiales | Dothideomycetes | Crous *et al*., 1999 |
| Valdensinia | Sclerotiniaceae | Helotiales | Leotiomycetes | Norvell & Redhead, 1994; Dzięcioł *et al*., 2014 |
| Valsa | Valsaceae | Diaporthales | Sordariomycetes | Abe *et al*., 2007; Yang, S. *et al*., 2021 |
| Venturia | Venturiaceae | Venturiales | Dothideomycetes | Marini & Barden, 1998; Kimic *et al*., 2021 |
| Veronaea | Herpotrichiellaceae | Chaetothyriales | Eurotiomycetes | Schön et al., 2018 |
| Verrucaria | Verrucariaceae | Verrucariales | Eurotiomycetes | Belisario *et al.*, 1999; Boyette *et al.*, 2001 |
| Verticillium | Plectosphaerellaceae | Incertae\_sedis | Sordariomycetes | Nazar *et al.*,1991; Barbara & Clewes, 2003 |
| Vialaea | Vialaeaceae | Incertae\_sedis | Sordariomycetes | Senanayake *et al*., 2014 |
| Vishniacozyma | Bulleribasidiaceae | Tremellales | Tremellomycetes | Félix *et al*., 2020; Schmidt *et al*., 2021 |
| Volutella | Nectriaceae | Hypocreales | Sordariomycetes | Šafránková, 2007; Shi & Hsiang, 2014 |
| Xenophacidiella | Teratosphaeriaceae | Capnodiales | Dothideomycetes | Tedersoo *et al*., 2014 |
| Xerula | Physalacriaceae | Agaricales | Agaricomycetes | Tedersoo *et al*., 2014 |
| Xylaria | Xylariaceae | Xylariales | Sordariomycetes | Rogers, 1984; Horst, 2001 |
| Zasmidium | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Huang *et al*., 2015; Swiderska-Burek, 2020 |
| Zymoseptoria | Mycosphaerellaceae | Capnodiales | Dothideomycetes | Karki *et al*., 2021 |

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