

Suppl Data Table S6. Summary of the family level relationships of the genera treated, comparing the taxonomy of Baral (2016) with the relationships suggested in our analyses (genera where higher taxon has changed are in bold). Where a genus was not treated by Baral (2016) the family level classification provided by Index Fungorum is provided. Also provided is the type status of the specimens used in our analyses, and where the suggested relationship is based on the ITS analysis only.

(1) based on Baral (2016) unless otherwise stated

(2) based on Index Fungorum, accessed 3 September 2018, <http://www.indexfungorum.org/names/names.asp>

(3) based on the ITS gene tree only

(4) type material with ITS data only

genus	current family (1, 2)	accepted family (3)	type status of specimens sequenced (4)	note
Acephala	Mollisiaceae	Mollisiaceae	exTypeSpecimen	
Acidea	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage (3)	exTypeSpecimen	
Acidomelania	Mollisiaceae	Mollisiaceae (3)	exTypeSpecimen	
Alatospora	Leotiaceae (2)	Leotiales incertae sedis	TypeSpecies	
Albotricha	Lachnaceae	Lachnaceae	TypeSpecies	
Allantophomopsiella	Phacidiaceae	Phacidiaceae (3)	exTypeSpecimen	
Allantophomopsis	Phacidiaceae	Phacidiaceae (3)	exTypeSpecimen	
Ameghiniella	Cordieritidaceae	Cordieritidaceae	TypeSpecies	
Amicodisca	Hyaloscyphaceae	Hyaloscyphaceae (3)	TypeSpecies (4)	A. castaneae in the 15 gene tree is distant to the type species A. virella in the ITS tree.
Amorphotheca	Amorphothecaceae	Amorphothecaceae	exTypeSpecimen (4)	
Amylocarpus	Helotiaceae	Helotiaceae (3)	TypeSpecies	closely related to 'Hymenoscyphus' repandus CBS 341.76 in ITS tree
Antarctomyces	Thelebolaceae	Thelebolaceae (3)	exTypeSpecimen	
Aotearomyces	Tympanidaceae	Leotiales incertae sedis	TypeSpecies	
Aotearomyces	Tympanidaceae	Leotiales incertae sedis	TypeSpecies	
Aquapoterium	Helotiales incertae sedis (2)	Helotiales incertae sedis (3)	exTypeSpecimen	
Arachnopeziza	Arachnopezizaceae	Arachnopezizaceae	TypeSpecies	
Arbusculina	Pezizomycotina incertae sedis (2)	Hyaloscyphaceae (3)		
Articulospora	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage	TypeSpecies	
Ascocalyx	Godroniaceae	Godroniaceae (3)		
Ascocoryne	Gelatinodiscaceae	Gelatinodiscaceae	TypeSpecies	
Ascotremella	Gelatinodiscaceae	Gelatinodiscaceae (3)	TypeSpecies	
Asperopilum	Hyaloscyphaceae	Lachnaceae (3)	TypeSpecies	
Asterocalyx	Helotiales incertae sedis	Helotiales incertae sedis (3)	TypeSpecies	
Austropezia	Arachnopezizaceae	Pezizellaceae (3)	TypeSpecies	
Banksiamyces	incertae sedis	Helotiales incertae sedis (3)		
Barrenia	Helotiales incertae sedis (2)	Mollisiaceae (3)	exTypeSpecimen	
Belonioscyphella	Helotiales incertae sedis	Helotiales (Stammaria lineage/Han Clade 9) (3)	TypeSpecies	
Bicornispora	Rutstroemiaceae	Rutstroemiaceae (3)	TypeSpecies	
Bisporella	Helotiaceae	Helotiaceae (3)		based on Bispora, anamorph of Bisporella
Bivallum	Rhytismataceae	Rhytismataceae (3)		
Bloxamia	Pezizellaceae	Pezizellaceae (3)	TypeSpecies	
Blumeria	Erysiphaceae	Erysiphaceae	TypeSpecies	
Blumeriella	Drepanopezizaceae	Drepanopezizaceae (3)		
Botrytis	Sclerotiniaceae	Sclerotiniaceae	TypeSpecies	
Brunaudia	Patellariaceae (2)	Helotiaceae (3)	TypeSpecies	
Brunnipila	Lachnaceae	Lachnaceae		
Bryoglaviculus	Bryoglossum lineage	Bryoglossum lineage (3)	exTypeSpecimen	
Bryoglossum	Bryoglossum lineage	Bryoglossum lineage (3)	TypeSpecies	
Bryoscyphus	Helotiaceae	Helotiaceae		
Bulgaria	Phacidiaceae	Phacidiaceae	TypeSpecies	
Bulgariella	Helotiales incertae sedis	Helotiaceae	TypeSpecies	
Byssosascus	Myxotrichaceae	Myxotrichaceae (3)	exTypeSpecimen	
Cadophora	Ploettnerulaceae	Ploettnerulaceae	TypeSpecies (4)	
Cairneyella	Helotiales incertae sedis (2)	Helotiales incertae sedis (hyaloscyphoid clade)	exTypeSpecimen	
Calloria	Calloriaceae	Helotiales (Stammaria lineage/Han Clade 9) (3)		
Calycellina	Pezizellaceae	Pezizellaceae (3)		
Calycellinopsis	Dermateaceae (2)	Cenangiaceae	TypeSpecies	
Calycina	Pezizellaceae	Pezizellaceae		
Capitotricha	Lachnaceae	Lachnaceae (3)	TypeSpecies	
Cashiella	Helotiales incertae sedis	Helotiales incertae sedis (3)		
Catenulifera	Helotiales incertae sedis (2)	Helotiales (Han Clade 4) (3)		
Cenangioopsis	Cenangiaceae	Cenangiaceae	TypeSpecies	
Cenangium	Cenangiaceae	Cenangiaceae	TypeSpecies	
Chaetomella	Chaetomellaceae	Chaetomellaceae	TypeSpecies	
Chaetoscypha	Helotiaceae	Helotiaceae		as "Pirottaea"
Chalara	Pezizellaceae	Hyaloscyphaceae	TypeSpecies	
Cheirospora	Ascomycota incertae sedis (2)	Mollisiaceae (3)	TypeSpecies	
Chlorenchocelia	Cenangiaceae	Cenangiaceae	TypeSpecies	
Chlorociboria	Chlorociboriaceae	Chlorociboriaceae	TypeSpecies	
Chloroscypha	Gelatinodiscaceae	Gelatinodiscaceae		
Chlorosplenium	Helotiales incertae sedis	Mollisiaceae	TypeSpecies	
Chlorovibrisea	Vibriseaceae	Helotiales incertae sedis (helotioid clade)	TypeSpecies	
Ciboria	Sclerotiniaceae	Sclerotiniaceae		
Ciborinia	Sclerotiniaceae	Sclerotiniaceae	TypeSpecies	
Cistella	Hyaloscyphaceae	Helotiales (Stammaria lineage/Han Clade 9)		
Cladochasiella	Ascomycota incertae sedis (2)	Discinella-Pezoloma lineage (3)	exTypeSpecimen	
Clarireedia	Rutstroemiaceae	Rutstroemiaceae	TypeSpecies	
Clathrosphaerina	Hyaloscyphaceae (2)	Helotiales incertae sedis (3)	TypeSpecies	sister to Arachnopezizaceae in ITS tree, but support needs confirming with additional genes; ITS sequence used matches that from ex type material (CBS 162.49, GenBank NR_159766)
Clathrosporium	Helotiales incertae sedis (2)	Gelatinodiscaceae (3)	TypeSpecies	
Claussenomyces	Tympanidaceae	Leotiales incertae sedis		
Cleistothelobolus	Thelebolaceae	Thelebolaceae (3)	TypeSpecies	
Coccomyces	Rhytismataceae	Rhytismataceae		
Cochlearomyces	Cochlearomycetaceae (2)	Cochlearomycetaceae (3)	ExTypeSpecimen	cf Leotiales
Coleophoma	Leotiomyces incertae sedis (2)	Dermateaceae (3)		
Collembolispora	Helotiales incertae sedis (2)	Ploettnerulaceae (3)	exTypeSpecimen	
Collophorina	Tympanidaceae	Tympanidaceae	exTypeSpecimen	
Colpoma	Rhytismataceae	Rhytismataceae (3)	TypeSpecies	
Connersia	Pseudeurotiaceae	Helotiaceae	exTypeSpecimen	
Coprotinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Cordierites	Cordieritidaceae	Cordieritidaceae	TypeSpecies	
Cristulariella	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Crocicreas	Helotiales incertae sedis	Helotiales incertae sedis (pezizelloid clade)	TypeSpecies	
Crumenulopsis	Cenangiaceae	Cenangiaceae (3)	TypeSpecies	
Cryptohymenium	Dermateaceae (2)	Helotiales incertae sedis (sclerotinioid clade)	TypeSpecies	
Cryptosporiopsis	Dermateaceae	Dermateaceae	TypeSpecies	
Cudonia	Cudoniaceae	Cudoniaceae (3)	TypeSpecies	
Cudoniella	Helotiaceae	Helotiaceae		"Hymenoscyphus" varicosporioides clade
Curviclavula	Helotiales incertae sedis (2)	Pezizellaceae (3)	exTypeSpecimen	Han Clade 1 subclade

genus	current family (1, 2)	accepted family (3)	type status of specimens sequenced (4)	note
Cyathicula	Helotiaceae	Helotiaceae (3)	TypeSpecies	
Cyclaneusma	Marthamycetaceae	Marthamycetaceae	exTypeSpecimen	
Cyttaria	Cyttariaceae	Cyttariaceae	TypeSpecies	
Darkera	Phacidiaceae	Phacidiaceae (3)	exTypeSpecimen	
Dasyscyphella	Lachnaceae	Lachnaceae		
Davidhawksworthia	Dermateaceae (2)	Dermateaceae (3)	exTypeSpecimen	
Deltopyxis	Leotiomyces incertae sedis	Leotiomyces incertae sedis (3)	exTypeSpecimen	
Dematiocypha	Hyaloscyphaceae	Helotiales (Han Clade 7)	TypeSpecies	
Dermea	Dermateaceae	Dermateaceae		
Dicephalospora	Helotiaceae	Helotiaceae		
Dimorphospora	Helotiaceae (2)	Gelatinodiscaceae (3)	exTypeSpecimen	
Diplocarpa	Cordieritidaceae	Cordieritidaceae		
Diplocarpon	Drepanopezizaceae	Drepanopezizaceae	TypeSpecies	
Diplolaeviopsis	Cordieritidaceae	Cordieritidaceae (3)		
Discinella	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage (3)	TypeSpecies	
Duebenia	Calloriaceae	Helotiales (Stammnaria lineage/Han Clade 9) (3)		
Dumontinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Durella	Strossmayeria lineage	Strossmayeria lineage (3)		Durella connivens
Eleutheromyces	Helicogoniaceae	Helicogoniaceae (3)	exTypeSpecimen	
Elliottinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Elytroderma	Rhytismataceae	Rhytismataceae (3)	TypeSpecies	
Encoelia	Cenangiaceae	Cenangiaceae	TypeSpecies	
Endoscypha	Hyaloscyphaceae	Helotiaceae (3)	TypeSpecies	
Epicladonia	Ascomycota incertae sedis (2)	Phacidiaceae (3)	TypeSpecies	
Epiglia	Mniaceae lineage	Mniaceae	TypeSpecies	
Eriopezia	Arachnopezizaceae	Arachnopezizaceae (3)	TypeSpecies	
Erysiphe	Erysiphaceae	Erysiphaceae		
Fabrella	Cenangiaceae	Cenangiaceae (3)	TypeSpecies	
Filosporella	Ascomycota incertae sedis (2)	Helotiales incertae sedis		type not sequenced, other species genetically divergent
Flagellospora	Nectriaceae (2)	Leotiales incertae sedis	TypeSpecies	
Fontanospora	Helotiales incertae sedis (2)	Discinella-Pezoloma lineage (3)	TypeSpecies	
Fulvoflamma	Rhytismatales incertae sedis (2)	Phacidiaceae (3)	exTypeSpecimen	
Fuscoclara	Dermateaceae (2)	Mollisiaceae (3)	exTypeSpecimen	
Gamarada	Hyaloscyphaceae (2)	Helotiales (Han Clade 4)	TypeSpecies	
Gelatinipulvinella	Helicogoniaceae	Helicogoniaceae	TypeSpecies	
Gelatinodiscus	Gelatinodiscaceae	Gelatinodiscaceae (3)	TypeSpecies	
Gelatinomyces	Tympanidaceae	Tympanidaceae (3)	exTypeSpecimen	
Gelatinopsis	Helicogoniaceae	Helicogoniaceae		
Geltinia	Helicogoniaceae	Helicogoniaceae (3)	TypeSpecies	
Gemmina	Pezizellaceae	Pezizellaceae (3)	TypeSpecies	Han Clade 1 subclade
Geomyces	Myxotrichaceae	Pseudeurotiaceae (3)	exTypeSpecimen	
Glearea	Helotiaceae	Helotiaceae	exTypeSpecimen	
Gloetinia	Helotiaceae	Helotiales incertae sedis (3)	TypeSpecies	ITS close to Cyttaria and Myxocephala
Godronia	Godroniaceae	Godroniaceae		
Golovinomyces	Erysiphaceae	Erysiphaceae		
Gorgomyces	Ascomycota incertae sedis (2)	Leotiales incertae sedis (3)	exTypeSpecimen	
Graddonia	Helotiaceae	Helotiaceae (3)		"Hymenoscyphus" varicosporioides clade
Gremmeniella	Godroniaceae	Godroniaceae	TypeSpecies	
Grovesiella	Tympanidaceae	Godroniaceae (3)	TypeSpecies	
Grovesinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Gymnostellatospora	Myxotrichaceae (2)	Pseudeurotiaceae (3)		
Gyoeffyella	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage		
Halenospora	Leotiaceae (2)	Helotiaceae	TypeSpecies	"Hymenoscyphus" varicosporioides clade; = Zalerion varium
Hamatocanthoscypha	Pezizellaceae	Pezizellaceae	TypeSpecies	
Haradamycetes	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Helicocentrals	Leotiomyces incertae sedis (2)	Helotiales incertae sedis (hyaloscyphoid clade) (3)	exTypeSpecimen	sister to Cairneyella
Helicodendron	Helotiales incertae sedis (2)	Gelatinodiscaceae (3)	TypeSpecies	
Heterosphaeria	Heterosphaeriaceae	Heterosphaeriaceae (3)	TypeSpecies	
Heyderia	Cenangiaceae	Cenangiaceae	TypeSpecies	
Hispidula	Hyaloscyphaceae	Helotiaceae		
Holwaya	Tympanidaceae	Leotiomyces incertae sedis	TypeSpecies	
Hyalodendriella	Helotiales incertae sedis (2)	Pezizellaceae (3)	exTypeSpecimen	Han Clade 1 subclade
Hyalopeziza	Hyaloscyphaceae	Hyaloscyphaceae		
Hyaloscypha	Hyaloscyphaceae	Hyaloscyphaceae	TypeSpecies	
Hydrocina	Discinella-Pezoloma lineage	Helotiales incertae sedis (3)	exTypeSpecimen	
Hymenoscyphus	Helotiaceae	Helotiaceae	TypeSpecies	
Hymenotorrendiella	Helotiaceae	Helotiaceae	TypeSpecies (4)	
Hyphodiscus	Hyaloscyphaceae	Helotiales (Han Clade 4)	TypeSpecies (4)	
Hyphopeziza	Hyaloscyphaceae	Helotiales (Han Clade 4)	TypeSpecies (4)	
Hypoderma	Rhytismataceae	Rhytismataceae	TypeSpecies	
Incrucipulum	Lachnaceae	Lachnaceae	TypeSpecies (4)	
Infundichalara	incertae sedis	Pezizellaceae	exTypeSpecimen	
Ionimidotis	Cordieritidaceae	Cordieritidaceae	TypeSpecies	
Kohninia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Lachnellula	Lachnaceae	Lachnaceae		
Lachnopsis	Hyaloscyphaceae (2)	Lachnaceae (3)	exTypeSpecimen	
Lachnum	Lachnaceae	Lachnaceae		
Laetinaevia	Calloriaceae	Helotiales (Stammnaria lineage/Han Clade 9) (3)		
Lambertella	Rutstroemiaceae	Rutstroemiaceae	TypeSpecies	
Lanzia	Rutstroemiaceae	Rutstroemiaceae		
Lareunionomyces	Neolauriomycetaceae (2)	Neolauriomycetaceae (3)	exTypeSpecimen	
Lasiobelonium	Lachnaceae	Lachnaceae		
Lemnoniera	Helotiales incertae sedis (2)	Discinella-Pezoloma lineage	TypeSpecies	
Leohumicola	Leotiomyces incertae sedis (2)	Helotiales (Stammnaria lineage/Han Clade 9) (3)	exTypeSpecimen	
Leotia	Leotiaceae	Leotiaceae	TypeSpecies	
Leptodontidium	Helotiales incertae sedis (2)	Helotiales (Han Clade 4) (3)	exTypeSpecimen	based on L. elatius ex ITS tree;
Leuconeurospora	Pseudeurotiaceae	Pseudeurotiaceae	exTypeSpecimen	
Limonella	Cordieritidaceae	Cordieritidaceae		
Lophodermium	Rhytismataceae	Rhytismataceae (3)		
Loramycetes	Loramycetaceae	Mollisiaceae	TypeSpecies	
Macroskyteta	Helotiales incertae sedis (2)	Cordieritidaceae (3)	exTypeSpecimen	
Malbranchea	Myxotrichaceae	Myxotrichaceae (3)		
Margaritispora	Helotiales incertae sedis (2)	Discinella-Pezoloma lineage	TypeSpecies	based on LSU phylogeny using DQ267635 (unpubl. data)
Marssonina	Drepanopezizaceae	Drepanopezizaceae		
Marthamycetes	Marthamycetaceae	Marthamycetaceae	TypeSpecies	
Mastigosporium	Ascomycota incertae sedis (2)	Ploettnerulaceae (3)	exTypeSpecimen	
Medeolaria	Medeolariaceae	Medeolariaceae (3)	TypeSpecies	cf Dermateaceae but on long branch
Melinomyces	Hyaloscyphaceae	Hyaloscyphaceae	TypeSpecies	= Hyaloscypha, Fehrer et al. 2019
Meloderma	Rhytismataceae	Rhytismataceae (3)	TypeSpecies	
Meria	Cenangiaceae	Cenangiaceae	TypeSpecies	
Microglossum	Leotiaceae	Leotiaceae	TypeSpecies	
Microscypha	Pezizellaceae	Pezizellaceae		
Miniancora	Ascomycota incertae sedis (2)	Leotiales incertae sedis (3)	exTypeSpecimen	

genus	current family (1, 2)	accepted family (3)	type status of specimens sequenced (4)	note
Mitula	Mitrulaceae	Mitrulaceae (3)	TypeSpecies	
Mitrolinia	Helotiales incertae sedis	Helotiaceae (3)	TypeSpecies	
Mniaecia	Mniaecia lineage	Mniaeciaceae	TypeSpecies	
Moellerodiscus	Rutstroemiaceae	Rutstroemiaceae		
Mollisia	Mollisiaceae	Mollisiaceae	TypeSpecies	
Mollisina	Pezizellaceae	Pezizellaceae		
Monilinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Mycarthris	Hyaloscyphaceae (2)	Helotiales (Stammaria lineage/Han Clade 9) (3)	exTypeSpecimen	
Mycochaetophora	Ploettnerulaceae	Ploettnerulaceae (3)		
Mycofalcella	Ascomycota incertae sedis (2)	Helotiaceae	exTypeSpecimen	"Hymenoscyphus" varicosporioides clade
Mycopappus	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Mycosymbiodes	Leotiomycetes incertae sedis (2)	Leotiales incertae sedis (3)	exTypeSpecimen	
Myriodiscus	Typanidaceae	Typanidaceae	TypeSpecies	
Myriosclerotinia	Sclerotiniaceae	Sclerotiniaceae	TypeSpecies	
Myxocephala	Sordariomycetes (2)	Helotiales incertae sedis (3)	exTypeSpecimen	ITS sister to Cyttaria
Myxotrichum	Myxotrichaceae	Myxotrichaceae (3)	TypeSpecies	
Naemacyclus	Marthamycetaceae	Marthamycetaceae	TypeSpecies	
Naevala	Calloriaceae	Discinella-Pezoloma lineage (3)	TypeSpecies	
Neobulgaria	Gelatinodiscaceae	Gelatinodiscaceae	TypeSpecies	
Neocrinula	Neocrinulaceae (2)	Neocrinulaceae (3)	exTypeSpecimen	
Neocudoniella	Gelatinodiscaceae	Bryoglossum lineage (3)	exTypeSpecimen	
Neodasyphypha	Lachnaceae	Lachnaceae (3)	TypeSpecies	
Neofabraea	Dermateaceae	Dermateaceae	exTypeSpecimen	
Nervostroma	Sclerotiniaceae	Sclerotiniaceae (3)	exTypeSpecimen	
Oculimacula	Ploettnerulaceae	Ploettnerulaceae (3)	TypeSpecies	
Oidiodendron	Myxotrichaceae	Myxotrichaceae	TypeSpecies (4)	
Olla	Hyaloscyphaceae	Hyaloscyphaceae		
Orbiliopsis	Helotiales incertae sedis	Helotiales incertae sedis (3)		
Ovulinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Pachycudonia	Cudoniaceae	Cudoniaceae (3)	TypeSpecies	
Parafabraea	Dermateaceae	Dermateaceae	exTypeSpecimen	
Patellina	Helotiales incertae sedis	Leotiomycetes incertae sedis (3)	TypeSpecies	sister to Holwaya
Perrotia	Lachnaceae	Lachnaceae (3)	TypeSpecies	
Pezicula	Dermateaceae	Dermateaceae	exTypeSpecimen	
Pezoloma	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage		
Phacidium	Phaciaceae	Phaciaceae	exTypeSpecimen (4)	
Phaeohelotium	Helotiaceae	Helotiaceae		
Phialina	Pezizellaceae	Pezizellaceae		
Phialocephala	Mollisiaceae	Mollisiaceae	exTypeSpecimen	
Phlyctema	Dermateaceae	Dermateaceae	TypeSpecies	
Piceomphale	Sclerotiniaceae	Rutstroemiaceae	TypeSpecies	
Pilidium	Chaetomellaceae	Chaetomellaceae	exTypeSpecimen	
Pleuroascus	Pseudeurotiaceae	Helotiaceae	TypeSpecies	
Poculum	Rutstroemiaceae	Rutstroemiaceae		
Polydesmia	Helotiales incertae sedis	Helotiales incertae sedis (sclerotinioid clade)	TypeSpecies	
Polyphilus	Hyaloscyphaceae	Helotiales (Stammaria lineage/Han Clade 9)	exTypeSpecimen	
Porodiplodia	Porodiplodiaceae	Pezizellaceae (3)	exTypeSpecimen	
Potebniomyces	Phaciaceae	Phaciaceae	TypeSpecies	
Proliferodiscus	Lachnaceae	Lachnaceae	TypeSpecies (4)	
Propolis	Marthamycetaceae	Marthamycetaceae		
Pseudaegerita	Hyaloscyphaceae	Hyaloscyphaceae (3)	TypeSpecies	= Hyaloscypha, Fehrer et al. 2019
Pseudeurotium	Pseudeurotiaceae	Pseudeurotiaceae	exTypeSpecimen	
Pseudofabraea	Dermateaceae	Dermateaceae	exTypeSpecimen	
Pseudographis	Tribliaceae	Rhytismataceae	TypeSpecies	
Pseudogymnoascus	Pseudeurotiaceae	Pseudeurotiaceae	TypeSpecies	
Pseudopezizula	Drepanopezizaceae	Discinella-Pezoloma lineage (3)	TypeSpecies	
Pseudopeziza	Drepanopezizaceae	Drepanopezizaceae (3)		
Pseudophacidium	Phaciaceae	Phaciaceae (3)	TypeSpecies	
Psilachnum	Pezizellaceae	Helotiales (Stammaria lineage/Han Clade 9)		
Psychrophila	Helotiaceae (2)	Helotiales incertae sedis (3)	exTypeSpecimen	sister to Arachnopezizaceae in ITS tree, but support needs confirming with additional genes
Pycnopeziza	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Pyrenopeziza	Ploettnerulaceae	Ploettnerulaceae (3)		
Rhabdocline	Cenangiaceae	Cenangiaceae (3)	TypeSpecies	
Rhexocerosporidium	Ploettnerulaceae	Ploettnerulaceae	exTypeSpecimen	from ITS R. carotae
Rhizocladosporium	Helotiales incertae sedis (2)	Helotiales incertae sedis (3)	exTypeSpecimen	
Rhizodermea	Dermateaceae	Dermateaceae	exTypeSpecimen	
Rhizoscyphus	Hyaloscyphaceae	Hyaloscyphaceae	TypeSpecies	= Hyaloscypha, Fehrer et al. 2019
Rhymbocarpus	Cordieritidaceae	Cordieritidaceae		
Rhynchosporium	Ploettnerulaceae	Ploettnerulaceae	TypeSpecies	
Rodwayella	Pezizellaceae	Pezizellaceae (3)	TypeSpecies	
Roesleria	Roesleriaceae	Helotiaceae	TypeSpecies	
Rommelaarsia	Helotiales incertae sedis (2)	Helotiales (Stammaria lineage/Han Clade 9)	exTypeSpecimen	
Roseodiscus	Helotiales incertae sedis	Helotiales (Stammaria lineage/Han Clade 9)	TypeSpecies	
Rutstroemia	Rutstroemiaceae	Rutstroemiaceae	TypeSpecies	
Sabahriopsis	Helotiales incertae sedis (2)	Cordieritidaceae (3)	exTypeSpecimen	
Satchmopsis	Peizomycotina incertae sedis (2)	Leotiales incertae sedis (3)	TypeSpecies	
Scleromitula	Sclerotiniaceae	Rutstroemiaceae (3)	TypeSpecies	
Scleropezizula	Pezizellaceae	Pezizellaceae (3)	TypeSpecies	
Sclerotinia	Sclerotiniaceae	Sclerotiniaceae	TypeSpecies	
Scytalidium	Leotiomycetes incertae sedis (2)	Helotiales incertae sedis	exTypeSpecimen (4)	ITS, sister to Xylogone
Solenopeziza	Lachnaceae	Lachnaceae (3)	TypeSpecies	
Soosiella	Helotiales incertae sedis (2)	Helotiales (Han Clade 4) (3)	exTypeSpecimen	
Spathularia	Cudoniaceae	Cudoniaceae	TypeSpecies	
Sphaerographium	Chaetomellaceae	Chaetomellaceae (3)		
Spirosphaera	Helotiales incertae sedis (2)	Helotiaceae		"Hymenoscyphus" varicosporioides clade
Stammaria	Stammaria lineage	Helotiales (Stammaria lineage/Han Clade 9)		
Streptotinia	Sclerotiniaceae	Sclerotiniaceae (3)		as Streptobotrys, anamorph of Streptotinia
Stromatinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Strossmayeria	Strossmayeria lineage	Strossmayeria lineage		
Synchaetomella	Chaetomellaceae	Chaetomellaceae (3)		
Tapesia	Mollisiaceae	Mollisiaceae	TypeSpecies	
Teberdina	Pseudeurotiaceae	Pseudeurotiaceae (3)	exTypeSpecimen	Pseudeurotium anamorph
Terriera	Rhytismataceae	Rhytismataceae		
Tetrachaetum	Discinella-Pezoloma lineage	Discinella-Pezoloma lineage (3)	TypeSpecies	
Tetracladium	Helotiales incertae sedis	Helotiales (Stammaria lineage/Han Clade 9)	TypeSpecies	
Thamnogalla	Cordieritidaceae	Cordieritidaceae (3)	TypeSpecies	
Thegdonia	Drepanopezizaceae	Drepanopezizaceae (3)	TypeSpecies	
Thelebolus	Thelebolaceae	Thelebolaceae	TypeSpecies	
Thuemenidium	Leotiaceae	Leotiaceae		
Tiarospora	Phaciaceae	Leotiomycetes incertae sedis (3)	exTypeSpecimen	
Torrendiella	Rutstroemiaceae	Rutstroemiaceae (3)	TypeSpecies	
Trichopeziza	Lachnaceae	Lachnaceae	TypeSpecies	

genus	current family (1, 2)	accepted family (3)	type status of specimens sequenced (4)	note
Trichopezizella	Lachnaceae	Lachnaceae	TypeSpecies (4)	
Tricladium	Helotiaceae (2)	Helotiaceae	TypeSpecies	"Hymenoscyphus" varicosporioides clade
Trimmatostroma	Mollisiaceae	Mollisiaceae (3)	TypeSpecies	
Trizodia	Mniaecia lineage	Leotiomycetes incertae sedis	TypeSpecies	
Trochila	Cenangiaceae	Cenangiaceae	TypeSpecies	
Tromeropsis	Leotiomycetes incertae sedis	Leotiomycetes incertae sedis (3)		
Trybliopsis	Rhytismataceae	Rhytismataceae	TypeSpecies	
Tympanis	Tympanidaceae	Tympanidaceae		
Unguicularia	Hyaloscyphaceae	Helotiales incertae sedis (3)	TypeSpecies	
Urceolella	Hyaloscyphaceae	Helotiales (Stammaria lineage/Han Clade 9)	TypeSpecies	
Valdensinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Vandijkella	Vandijkellaceae (2)	Vandijkellaceae	exTypeSpecimen	
Varicosporium	Helotiaceae (2)	Discinella-Pezoloma lineage	TypeSpecies	
Variocladium	Mollisiaceae	Mollisiaceae (3)		
Velutarina	Cenangiaceae	Cenangiaceae (3)	TypeSpecies	
Venturiocistella	Hyaloscyphaceae	Helotiales (Han Clade 4)		
Verpatinia	Sclerotiniaceae	Sclerotiniaceae (3)	TypeSpecies	
Vibrisea	Vibriseaceae	Vibriseaceae	TypeSpecies	
Xenopolyscytalum	Helotiales incertae sedis (2)	Pezizellaceae (3)	exTypeSpecimen	Han Clade 1 subclade
Xerombrophila	Gelatinodiscaceae	Gelatinodiscaceae	TypeSpecies	
Xeropilidium	Chaetomellaceae	Chaetomellaceae	exTypeSpecimen	
Xylogone	Helotiales incertae sedis (2)	Helotiales incertae sedis (3)	exTypeSpecimen	
Ypsilina	Ploettnerulaceae	Ploettnerulaceae (3)	TypeSpecies	
Zymochalara	Pezizomycotina incertae sedis (2)	Pezizellaceae (3)	exTypeSpecimen	