

Supplemental Table 4. Taxa and character states used in this study

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
1241		<i>Rhizopus oryzae</i>	not coded					
675		<i>Agaricostilbum hyphaenes</i>	not coded					
449		<i>Armillaria mellea</i>	not coded					
438		<i>Calocera cornea</i>	not coded					
439		<i>Calostoma cinnabarinum</i>	not coded					
447		<i>Coltricia perennis</i>	not coded					
700		<i>Cotylidia</i> sp.	not coded					
1088		<i>Cryptococcus neoformans</i>	not coded					
770		<i>Fomitopsis pinicola</i>	not coded					
701		<i>Grifola frondosa</i>	not coded					
729		<i>Hygrocybe conica</i>	not coded					
776		<i>Phanerochaete chrysosporium</i>	not coded					
716		<i>Strobilomyces floccopus</i>	not coded					
505		<i>Ustilago maydis</i>	not coded					
775	Arthoniales	<i>Arthonia caesia</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
993	Arthoniales	<i>Opegrapha dolomitica</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
881	Arthoniales	<i>Opegrapha varia</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
126	Arthoniales	<i>Roccella fuciformis</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
93	Arthoniales	<i>Roccellographa cretacea</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
307	Arthoniales	<i>Schismatomma decolorans</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
80	Arthoniales	<i>Simonyella variegata</i>	Lichen	Ascohymenial	Fissitunicate	Exposed		
939	Capnodiales	<i>Capnodium coffeae</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
937	Capnodiales	<i>Capnodium salicinum</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1788	Capnodiales	<i>Cercospora beticola</i>	Plant associate/Plant pathogen					Asexual only
1289	Capnodiales	<i>Cladosporium cladosporioides</i>	Saprobe					Asexual only
1591	Capnodiales	<i>Davidiella tassiana</i> (as anamorph <i>Cladosporium herbarum</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
2021	Capnodiales	<i>Mycosphaerella fijiensis</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1615	Capnodiales	<i>Mycosphaerella graminicola</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
942	Capnodiales	<i>Mycosphaerella punctiformis</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1594	Capnodiales	<i>Scorias spongiosa</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1789	Capnodiales	<i>Trimmatostroma abietis</i>	Plant associate/Plant pathogen					Asexual only
1582	Dothideales	<i>Columnosphaeria fagi</i> 2 (as <i>Discosphaerina fagi</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1257	Dothideales	<i>Delphinella strobiligena</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
919	Dothideales	<i>Dothidea hippophaës</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
921	Dothideales	<i>Dothidea insculpta</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
274	Dothideales	<i>Dothidea sambuci</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1359	Dothideales	<i>Dothiora cannabinae</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
902	Dothideales	<i>Stylodothis puccinioides</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1300	Dothideales	<i>Sydowia polyspora</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1854	Myriangiales	<i>Elsinoë centrolobi</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1855	Myriangiales	<i>Elsinoë phaseoli</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1853	Myriangiales	<i>Elsinoë veneta</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1304	Myriangiales	<i>Myriangium duriaei</i>	Animal pathogen	Ascolocular	Fissitunicate	Ostiolar		
	Patellariales	<i>Rhytidhysterium rufulum</i>	Saprobe	Ascolocular	Fissitunicate	Exposed		
946	Botryosphaeriales	<i>Botryosphaeria dothidea</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1232	Botryosphaeriales	<i>Botryosphaeria ribis</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1572	Botryosphaeriales	<i>Botryosphaeria stevensii</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1586	Botryosphaeriales	<i>Botryosphaeria tsugae</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1782	Botryosphaeriales	<i>Botryosphaeria viticola</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1618	Botryosphaeriales	<i>Guignardia bidwellii</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1784	Botryosphaeriales	<i>Guignardia gaultheriae</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1783	Botryosphaeriales	<i>Macrophomina phaseolina</i>	Plant associate/Plant pathogen					Asexual only
1254	Hysteriales	<i>Hysteropatella</i> sp. (as <i>Hysterium pulicare</i> )	Saprobe	Ascolocular	Fissitunicate	Exposed		
1305	Hysteriales	<i>Hysteropatella clavispota</i>	Saprobe	Ascolocular	Fissitunicate	Exposed		
1790	Hysteriales	<i>Hysteropatella elliptica</i>	Saprobe	Ascolocular	Fissitunicate	Exposed		
	Incertae sedis	<i>Arthopyrenia salicis</i>	Lichen	Ascolocular	Fissitunicate	Ostiolar		
1613	Incertae sedis	<i>Helicomyces roseus</i>	Saprobe					Asexual only

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
925	Incertae sedis	<i>Kirschsteiniothelia aethiops</i> 1	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
273	Incertae sedis	<i>Kirschsteiniothelia aethiops</i> 2 (as anamorph <i>Dendryphiopsis atra</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1184	Incertae sedis	<i>Phaeotrichum benjamini</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1316	Incertae sedis	<i>Tubeufia cerea</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1580	Incertae sedis	<i>Tubeufia paludosa</i> (as anamorph <i>Helicosporium phragmitis</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1235	Incertae sedis	<i>Tyrannosorus pinicola</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
	Incertae sedis	<i>Venturia inaequalis</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
	Jahnulales	<i>Aliquandostipite khayaiensis</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
267	Pleosporales	<i>Allewia eureka</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1610	Pleosporales	<i>Alternaria alternata</i>	Plant associate/Plant pathogen					Asexual only
1583	Pleosporales	<i>Ascochyta pisi</i> var. <i>pisi</i>	Plant associate/Plant pathogen					Asexual only
931	Pleosporales	<i>Bimuria novae-zelandiae</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1735	Pleosporales	<i>Byssothecium circinans</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
54	Pleosporales	<i>Cochliobolus heterostrophus</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
271	Pleosporales	<i>Cochliobolus sativus</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
912	Pleosporales	<i>Columnosphaeria fagi</i> 1 (as anamorph <i>Aureobasidium pullulans</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1240	Pleosporales	<i>Coniothyrium obiones</i>	Saprobe				Marine	Asexual only
1379	Pleosporales	<i>Coniothyrium palmarum</i>	Plant associate/Plant pathogen					Asexual only
1568	Pleosporales	<i>Cucurbitaria elongata</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1599	Pleosporales	<i>Delitschia winteri</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
995	Pleosporales	<i>Dendryphiella arenaria</i>	Saprobe				Marine	Asexual only
1588	Pleosporales	<i>Herpotrichia diffusa</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1608	Pleosporales	<i>Herpotrichia juniperi</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1576	Pleosporales	<i>Lepidosphaeria nicotiae</i>	Saprobe	Ascolocular	Fissitunicate	Exposed		
277	Pleosporales	<i>Leptosphaeria maculans</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1606	Pleosporales	<i>Lophiostoma arundinis</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1581	Pleosporales	<i>Lophiostoma crenatum</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1609	Pleosporales	<i>Lophium mytilinum</i>	Saprobe	Ascolocular	Fissitunicate	Exposed		
1574	Pleosporales	<i>Massaria platani</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1734	Pleosporales	<i>Montagnula opulenta</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1569	Pleosporales	<i>Ophiosphaerella herpotricha</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1590	Pleosporales	<i>Phaeodothis winteri</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
280	Pleosporales	<i>Phaeosphaeria avenaria</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1570	Pleosporales	<i>Phaeosphaeria eustoma</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
GB	Pleosporales	<i>Phaeosphaeria nodorum</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1575	Pleosporales	<i>Phoma herbarum</i>	Plant associate/Plant pathogen					Asexual only
1600	Pleosporales	<i>Pleomassaria siparia</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
934	Pleosporales	<i>Pleospora herbarum</i> var. <i>herbarum</i> 1	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
940	Pleosporales	<i>Pleospora herbarum</i> var. <i>herbarum</i> 2	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
	Pleosporales	<i>Pleosporales</i> sp. (as <i>Pyrenula ochraceoflava</i> )						
282	Pleosporales	<i>Preussia terricola</i>	Saprobe	Ascolocular	Fissitunicate	Enclosed		
1856	Pleosporales	<i>Pyrenochaeta nobilis</i>	Saprobe					Asexual only
283	Pleosporales	<i>Pyrenophora phaeocomes</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
173	Pleosporales	<i>Pyrenophora tritici-repentis</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1256	Pleosporales	<i>Sporormiella minima</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1036	Pleosporales	<i>Trematosphaeria heterospora</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1589	Pleosporales	<i>Trematosphaeria pertusa</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1598	Pleosporales	<i>Ulospora bilgramii</i>	Saprobe	Ascolocular	Fissitunicate	Enclosed		
1601	Pleosporales	<i>Verruculina enalia</i> (as <i>Lojkania enalia</i> )	Saprobe	Ascolocular	Fissitunicate	Ostiolar	Marine	
1037	Pleosporales	<i>Westerdykella cylindrica</i>	Saprobe	Ascolocular	Fissitunicate	Enclosed		
1592	Pleosporales	<i>Wettsteinina lacustris</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
	Trypetheliaceae	<i>Trypethelium eluteriae</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
110	Trypetheliaceae	<i>Trypethelium</i> sp.	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
656	Chaetothyriales	<i>Capronia munkii</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
657	Chaetothyriales	<i>Capronia pilosella</i>	Saprobe	Ascolocular	Fissitunicate	Ostiolar		
1063	Chaetothyriales	<i>Ceramothyrium carnolicum</i>	Plant associate/Plant pathogen	Ascolocular	Fissitunicate	Ostiolar		
1033	Chaetothyriales	<i>Cyphellophora laciniata</i>	Animal pathogen	Ascolocular	Fissitunicate	Ostiolar		
668	Chaetothyriales	<i>Exophiala dermatitidis</i>	Animal pathogen					Asexual only

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669	Chaetothyriales	<i>Exophiala pisciphila</i>	Animal pathogen					Asexual only
671	Chaetothyriales	<i>Exophiala salmonis</i>	Animal pathogen					Asexual only
1145	Chaetothyriales	<i>Glyphium elatum</i> cf.	Saprobe		Fissitunicate	Ostiolar		
670	Chaetothyriales	<i>Phialophora verrucosa</i>	Animal pathogen					Asexual only
659	Chaetothyriales	<i>Ramichloridium anceps</i>	Saprobe					
2195	Incertae sedis	<i>Sarcinomyces petricola</i>	Saprobe					Asexual only
2013	Pyrenulales	<i>Granulopyrenis seawardii</i>	Saprobe	Ascohymenial		Ostiolar		
2012	Pyrenulales	<i>Pyrenula aspistea</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
387	Pyrenulales	<i>Pyrenula pseudobufonia</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
342	Pyrenulales	<i>Pyrgillus javanicus</i>	Lichen	Ascohymenial	Deliquescent	Ostiolar		
684	Verrucariales	<i>Agonimia</i> sp.	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
91 & 79*	Verrucariales	<i>Dermatocarpon minutum</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
661	Verrucariales	<i>Endocarpon pallidulum</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
697	Verrucariales	<i>Staurothele frustulenta</i>	Lichen	Ascohymenial	Fissitunicate	Ostiolar		
1911	Coryneliales	<i>Caliciopsis orientalis</i>	Plant associate/Plant pathogen	Ascolocular	Deliquescent	Ostiolar		
1869	Coryneliales	<i>Caliciopsis pinea</i>	Plant associate/Plant pathogen	Ascolocular	Deliquescent	Ostiolar		
1079	Eurotiales	<i>Aspergillus fumigatus</i>	Saprobe					Asexual only
	Eurotiales	<i>Aspergillus protuberus</i>	Saprobe					Asexual only
1080	Eurotiales	<i>Emericella nidulans</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
429	Eurotiales	<i>Eupenicillium javanicum</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
2014	Eurotiales	<i>Eupenicillium limosum</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
363	Eurotiales	<i>Hamigera avellanea</i>	Saprobe					Asexual only
426	Eurotiales	<i>Monascus purpureus</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
378	Eurotiales	<i>Penicillium freii</i>	Saprobe					Asexual only
1083	Onygenales	<i>Ajellomyces capsulatum</i>	Animal pathogen	Ascohymenial	Deliquescent	Enclosed		
428	Onygenales	<i>Chrysosporium georgiae</i>	Animal pathogen					Asexual only
1084	Onygenales	<i>Coccidioides immitis</i>	Animal pathogen					Asexual only
430	Onygenales	<i>Spiromastix warcupii</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
GB	Mycocaliciales	<i>Mycocalicium polyporaem</i>	Mycoparasite	Ascohymenial	Deliquescent	Exposed		
1721	Mycocaliciales	<i>Sphinctrina turbinata</i>	Mycoparasite	Ascohymenial	Deliquescent	Exposed		
	Incertae sedis	<i>Dactylospora imperfecta</i>	Saprobe			Exposed		
2137	Incertae sedis	<i>Dactylospora lobariella</i>	Saprobe			Exposed		
762	Incertae sedis	" <i>Mycosphaerella pneumatophorae</i> "	Saprobe	Ascohymenial	Fissitunicate	Ostiolar	Marine	
758	Incertae sedis	<i>Dactylospora haliotrepha</i> 1	Saprobe	Ascohymenial	Rostrate	Exposed	Marine	
	Incertae sedis	<i>Dactylospora haliotrepha</i> 2	Saprobe	Ascohymenial	Rostrate	Exposed	Marine	
2108	Incertae sedis	<i>Dactylospora mangrovei</i>	Saprobe	Ascohymenial	Rostrate	Exposed	Marine	
1039	Incertae sedis	<i>Leotiomyces</i> sp. (as <i>Cubonia bulbifera</i> )	Saprobe					
	Geoglossaceae	<i>Sarcoleotia globosa</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
56	Incertae sedis	<i>Geoglossum nigratum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
	Incertae sedis	<i>Hyphozyma lignicola</i>	Saprobe					Asexual only
229	Incertae sedis	<i>Saitoella complicata</i>	Saprobe					Asexual only
1836	Incertae sedis	<i>Symbiotaphrina buchmeri</i>	Insect commensal					Asexual only
1902	Incertae sedis	<i>Symbiotaphrina kochii</i>	Insect commensal					Asexual only
64	Incertae sedis	<i>Trichoglossum hirsutum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
	Laboulbeniales	<i>Hesperomyces virescens</i>	Insect commensal	Ascohymenial	Deliquescent	Enclosed		
	Laboulbeniales	<i>Stigmatomyces protrudens</i>	Insect commensal	Ascohymenial	Deliquescent	Enclosed		
2197	Pyxidiophorales	<i>Pyxidiophora avernensis</i>	Mycoparasite	Ascohymenial	Deliquescent	Ostiolar		
	Pyxidiophorales	<i>Pyxidiophora sp.</i>	Mycoparasite	Ascohymenial	Deliquescent	Ostiolar		
1007	Acarosporales	<i>Acarospora laqueata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1005	Acarosporales	<i>Acarospora schleicheri</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1004	Acarosporales	<i>Pleopsidium chlorophanum</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1003	Acarosporales	<i>Pleopsidium gobiense</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1271	Candelariales	<i>Candelariella reflexa</i>	Lichen	Ascohymenial	Rostrate	Exposed		
227	Candelariales	<i>Candelariella terrigena</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1702	Incertae sedis	<i>Boreoplaca ultrafrigida</i>	Lichen	Ascohymenial	Rostrate	Exposed		
108	Incertae sedis	<i>Lopezaria versicolor</i>	Lichen	Ascohymenial	Rostrate	Exposed		
878	Incertae sedis	<i>Loxospora cismonica</i>	Lichen	Ascohymenial	Rostrate	Exposed		
879	Incertae sedis	<i>Loxospora ochrophaea</i>	Lichen	Ascohymenial	Rostrate	Exposed		

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642	Lecanorales	<i>Bacidia schweinitzii</i>	Lichen	Ascohymenial	Rostrate	Exposed		
6	Lecanorales	<i>Canoparmelia caroliniana</i>	Lichen	Ascohymenial	Rostrate	Exposed		
3	Lecanorales	<i>Cladonia caroliniana</i>	Lichen	Ascohymenial	Rostrate	Exposed		
111	Lecanorales	<i>Crocynia pyxinoidea</i>	Lichen	Ascohymenial	Rostrate	Exposed		
231	Lecanorales	<i>Flavocetraria nivalis</i>	Lichen	Ascohymenial	Rostrate	Exposed		
2	Lecanorales	<i>Flavoparmelia caperata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
320	Lecanorales	<i>Heterodermia vulgaris</i>	Lichen	Ascohymenial	Rostrate	Exposed		
687	Lecanorales	<i>Hypocenomyce scalaris</i>	Lichen	Ascohymenial	Rostrate	Exposed		
195	Lecanorales	<i>Hypogymnia physodes</i>	Lichen	Ascohymenial	Rostrate	Exposed		
639	Lecanorales	<i>Lecanora hybocarpa</i>	Lichen	Ascohymenial	Rostrate	Exposed		
196	Lecanorales	<i>Mycoblastus sanguinarius</i>	Lichen	Ascohymenial	Rostrate	Exposed		
686	Lecanorales	<i>Pyxine subcinerea</i>	Lichen	Ascohymenial	Rostrate	Exposed		
966	Lecanorales	<i>Ramalina complanata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
813	Lecanorales	<i>Usnea antarctica</i>	Lichen	Ascohymenial	Rostrate	Exposed		
816	Lecanorales	<i>Usnea sphacelata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
589	Lecideales?	<i>Lecidea fuscoatra</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1013	Peltigerales	<i>Collema cristatum</i>	Lichen	Ascohymenial	Rostrate	Exposed		
128	Peltigerales	<i>Lobaria scrobiculata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
314	Peltigerales	<i>Lobariella pallida</i>	Lichen	Ascohymenial	Rostrate	Exposed		
131	Peltigerales	<i>Nephroma parile</i>	Lichen	Ascohymenial	Rostrate	Exposed		
134	Peltigerales	<i>Peltigera degenii</i>	Lichen	Ascohymenial	Rostrate	Exposed		
132	Peltigerales	<i>Pseudocyphellaria anomala</i>	Lichen	Ascohymenial	Rostrate	Exposed		
333	Peltigerales	<i>Coccocarpia erythroxyli</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1372	Rhizocarpales	<i>Rhizocarpon oederi</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1708	Rhizocarpales	<i>Rhizocarpon superficiale</i>	Lichen	Ascohymenial	Rostrate	Exposed		
648	Teloschistales	<i>Anaptychia palmulata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
889	Teloschistales	<i>Buellia frigida</i>	Lichen	Ascohymenial	Rostrate	Exposed		
102	Teloschistales	<i>Letrouitia domingensis</i>	Lichen	Ascohymenial	Rostrate	Exposed		
	Teloschistales	<i>Megalospora tuberculosa</i>	Lichen	Ascohymenial	Rostrate	Exposed		
84	Teloschistales	<i>Physcia aipolia</i>	Lichen	Ascohymenial	Rostrate	Exposed		
87	Teloschistales	<i>Teloschistes exilis</i>	Lichen	Ascohymenial	Rostrate	Exposed		
650	Umbilicariales	<i>Lasallia papulosa</i>	Lichen	Ascohymenial	Rostrate	Exposed		
554	Umbilicariales	<i>Lasallia pustulata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
645	Umbilicariales	<i>Umbilicaria mammulata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
2042	Agyriales	<i>Hymenelia lacustris</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
962	Agyriales	<i>Trapelia glebosa</i> (as <i>Trapelia placodioides</i> )	Lichen	Ascohymenial	Non-poricidal	Exposed		
329	Baeomycetales	<i>Phyllobaeis erythrella</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
852	Baeomycetales	<i>Phyllobaeis imbricata</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
361	Gyalectales	<i>Gyalecta jenensis</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1375	Gyalectales	<i>Phlyctis argena</i>	Lichen	Ascohymenial	Rostrate	Exposed		
78	Ostropales	<i>Acarosporina microspora</i>	Saprobe	Ascohymenial	Non-poricidal	Exposed		
328	Ostropales	<i>Diploschistes cinereoaeisius</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
958	Ostropales	<i>Diploschistes ocellatus</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
1349	Ostropales	<i>Glomerobolus gelineus</i>	Saprobe					Asexual only
398 &	Ostropales	<i>Stictis radiata</i>	Saprobe	Ascohymenial	Non-poricidal	Exposed		
96	Ostropales	<i>Stictis urceolatum</i>	Lichen	Ascohymenial	Non-poricidal	Exposed		
358	Pertusariales	<i>Dibaëis baeomyces</i>	Lichen	Ascohymenial	Rostrate	Exposed		
875	Pertusariales	<i>Icmadophila ericetorum</i>	Lichen	Ascohymenial	Rostrate	Exposed		
224	Pertusariales	<i>Pertusaria dactylina</i>	Lichen	Ascohymenial	Rostrate	Exposed		
959	Pertusariales	<i>Pertusaria hemisphaerica</i>	Lichen	Ascohymenial	Rostrate	Exposed		
	Cyttariales	<i>Cyttaria darwinii</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
	Erysiphales	<i>Blumeria graminis</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Enclosed		
	Erysiphales	<i>Erysiphe glycines</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Enclosed		
1834	Helotiales	<i>Ascocoryne sarcoides</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
1301	Helotiales	<i>Bisporella citrina</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
59	Helotiales	<i>Botryotinia fuckeliana</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
916	Helotiales	<i>Bulgaria inquinans</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
151	Helotiales	<i>Chlorociboria aeruginosa</i>	Saprobe	Ascohymenial	Poricidal	Exposed		

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
67	Helotiales	<i>Chloroscypha enterochroma</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
166	Helotiales	<i>Cudoniella clavus</i> cf.	Plant associate/ Plant endophyte	Ascohymenial	Poricidal	Exposed		
941	Helotiales	<i>Dermea acerina</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
49	Helotiales	<i>Lachnum virgineum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
1262	Helotiales	<i>Lambertella subrenispora</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
1	Helotiales	<i>Leotia lubrica</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
913	Helotiales	<i>Loramycetes macrosporus</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
1292	Helotiales	<i>Microglossum rufum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
76	Helotiales	<i>Mollisia cinerea</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
169	Helotiales	<i>Monilinia laxa</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
1259	Helotiales	<i>Neobulgaria pura</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
149	Helotiales	<i>Neofabraea malicorticis</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
938	Helotiales	<i>Pezicula carpineae</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
1253	Helotiales	<i>Phacidium lacerum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
923	Helotiales	<i>Rutstroemia firma</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
928	Helotiales	<i>Sclerotinia sclerotiorum</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
1322	Helotiales	<i>Vibrissea truncorum</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
1264	Incertae sedis	<i>Connersia rilstonii</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
1296	Incertae sedis	<i>Cyclaneusma minus</i> (as <i>Naemacyclus minor</i> )	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
	Incertae sedis	Dark septate endophyte	Plant associate/ Plant endophyte	Ascohymenial				Asexual only
1397	Incertae sedis	<i>Leuconeurospora pulcherrima</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
1295	Incertae sedis	<i>Naemacyclus fimbriatus</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
1912	Incertae sedis	<i>Pseudeurotium zonatum</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
1250	Rhytismatales	<i>Coccomyces strobi</i>	Plant associate/ Plant endophyte	Ascohymenial	Poricidal	Exposed		
907	Rhytismatales	<i>Meria laricis</i>	Plant associate/ Plant endophyte					Asexual only
744	Rhytismatales	<i>Potebniamyces pyri</i> (as anamorph <i>Phacidiopycnis pyri</i> )	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
1319	Rhytismatales	<i>Trybliopsis pinastri</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Exposed		
637	Thelebolales	<i>Thelebolus carinus</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
638	Thelebolales	<i>Thelebolus microsporus</i>	Saprobe	Ascohymenial	Poricidal	Exposed		
896	Lichinales	<i>Lichinella iodopulchra</i>	Lichen	Ascohymenial	Deliquescent	Exposed		
892	Lichinales	<i>Peltula auriculata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
891	Lichinales	<i>Peltula umbilicata</i>	Lichen	Ascohymenial	Rostrate	Exposed		
1363	Neolectales	<i>Neolecta irregularis</i>	Plant associate	Ascohymenial?***	Non-poricidal	Exposed		
1362	Neolectales	<i>Neolecta vitellina</i>	Plant associate	Ascohymenial?	Non-poricidal	Exposed		
1530	Orbiliales	<i>Arthrobotrys elegans</i>	Animal pathogen					Asexual only
906	Orbiliales	<i>Orbilina auricolor</i>	Animal pathogen	Ascohymenial	Non-poricidal	Exposed		
905	Orbiliales	<i>Orbilina vinosa</i>	Saprobe	Ascohymenial	Non-poricidal	Exposed		
65	Pezizales	<i>Aleuria aurantia</i>	Saprobe	Ascohymenial	Operculate	Exposed		
73	Pezizales	<i>Anthracobia macrocystis</i>	Saprobe	Ascohymenial	Operculate	Exposed		
70	Pezizales	<i>Ascobolus carbonarius</i>	Saprobe	Ascohymenial	Operculate	Exposed		
181	Pezizales	<i>Ascobolus crenulatus</i>	Saprobe	Ascohymenial	Operculate	Exposed		
920	Pezizales	<i>Ascodesmis sphaerospora</i>	Saprobe	Ascohymenial	Operculate	Exposed		
61	Pezizales	<i>Barszia oregonensis</i>	Plant associate/ Mycorrhiza	Ascohymenial	Deliquescent	Enclosed		
152	Pezizales	<i>Caloscypha fulgens</i>	Plant associate/Plant pathogen	Ascohymenial	Operculate	Exposed		
148	Pezizales	<i>Cheilymenia stercorea</i>	Saprobe	Ascohymenial	Operculate	Exposed		
179	Pezizales	<i>Disciotis venosa</i>	Saprobe	Ascohymenial	Operculate	Exposed		
933	Pezizales	<i>Eleutherascus lectardii</i>	Saprobe	Ascohymenial	Operculate	Absent		
1297	Pezizales	<i>Galiella rufa</i>	Saprobe	Ascohymenial	Operculate	Exposed		
176	Pezizales	<i>Gyromitra californica</i>	Saprobe	Ascohymenial	Operculate	Exposed		
1534	Pezizales	<i>Gyromitra esculenta</i>	Saprobe	Ascohymenial	Operculate	Exposed		
66	Pezizales	<i>Helvella compressa</i> cf.	Plant associate/ Mycorrhiza	Ascohymenial	Operculate	Exposed		
1321	Pezizales	<i>Lasiobolium spirale</i>	Saprobe	Ascohymenial	Operculate	Exposed		
164	Pezizales	<i>Marcellina persoonii</i>	Saprobe	Ascohymenial	Operculate	Exposed		
180	Pezizales	<i>Morchella elata</i> cf.	Saprobe	Ascohymenial	Operculate	Exposed		
60	Pezizales	<i>Morchella esculenta</i> cf.	Saprobe	Ascohymenial	Operculate	Exposed		
57	Pezizales	<i>Pachyella babingtonii</i>	Saprobe	Ascohymenial	Operculate	Exposed		
507	Pezizales	<i>Peziza vesiculosa</i>	Saprobe	Ascohymenial	Operculate	Exposed		
1345	Pezizales	<i>Plicaria leiocarpa</i>	Saprobe	Ascohymenial	Operculate	Exposed		

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
69	Pezizales	<i>Pseudopithyella minuscula</i>	Plant associate/Plant pathogen	Ascohymenial	Operculate	Exposed		
949	Pezizales	<i>Pyronema domesticum</i>	Saprobe	Ascohymenial	Operculate	Exposed		
918	Pezizales	<i>Rhizina undulata</i>	Plant associate/Plant pathogen	Ascohymenial	Operculate	Exposed		
1299	Pezizales	<i>Saccobolus dilutellus</i>	Saprobe	Ascohymenial	Operculate	Exposed		
50	Pezizales	<i>Sarcoscypha coccinea</i> 1	Saprobe	Ascohymenial	Operculate	Exposed		
930	Pezizales	<i>Sarcoscypha coccinea</i> 2	Saprobe	Ascohymenial	Operculate	Exposed		
954	Pezizales	<i>Sarcosoma latahense</i>	Saprobe	Ascohymenial	Operculate	Exposed		
153	Pezizales	<i>Sarcosphaera coronaria</i>	Saprobe	Ascohymenial	Operculate	Exposed		
62	Pezizales	<i>Scutellinia scutellata</i>	Saprobe	Ascohymenial	Operculate	Exposed		
1344	Pezizales	<i>Tuber gibbosum</i>	Plant associate/ Mycorrhiza	Ascohymenial	Deliquescent	Enclosed		
58	Pezizales	<i>Verpa bohemica</i>	Saprobe	Ascohymenial	Operculate	Exposed		
74	Pezizales	<i>Verpa conica</i>	Saprobe	Ascohymenial	Operculate	Exposed		
1192	Pneumocystidales	<i>Pneumocystis carinii</i>	Animal pathogen	Absent		Absent		
1074	Saccharomycetales	<i>Candida albicans</i>	Animal pathogen					Asexual only
1073	Saccharomycetales	<i>Candida glabrata</i>	Animal pathogen					Asexual only
1270	Saccharomycetales	<i>Candida guilliermondii</i>	Animal pathogen					Asexual only
1268	Saccharomycetales	<i>Candida lusitaniae</i>	Animal pathogen					Asexual only
1269	Saccharomycetales	<i>Candida tropicalis</i>	Animal pathogen					Asexual only
1318	Saccharomycetales	<i>Clavispora lusitaniae</i>	Saprobe	Absent	Deliquescent	Absent		
1077	Saccharomycetales	<i>Debaryomyces hansenii</i>	Saprobe	Absent	Deliquescent	Absent		
1072	Saccharomycetales	<i>Eremothecium gossypii</i>	Plant associate/Plant pathogen	Absent	Deliquescent	Absent		
1075	Saccharomycetales	<i>Kluyveromyces lactis</i>	Saprobe	Absent	Deliquescent	Absent		
1071	Saccharomycetales	<i>Lachancea waltii</i> (as <i>Kluyveromyces waltii</i> )	Saprobe	Absent	Deliquescent	Absent		
1323	Saccharomycetales	<i>Lipomyces oligophaga</i> (as <i>Zygozma oligophaga</i> )	Saprobe	Absent	Deliquescent	Absent		
1326	Saccharomycetales	<i>Metschnikowia bicuspidata</i>	Animal	Absent	Deliquescent	Absent		
1070	Saccharomycetales	<i>Saccharomyces castellii</i>	Saprobe	Absent	Deliquescent	Absent		
1069	Saccharomycetales	<i>Saccharomyces cerevisiae</i>	Saprobe	Absent	Deliquescent	Absent		
1076	Saccharomycetales	<i>Yarrowia lipolytica</i>	Saprobe	Absent	Deliquescent	Absent		
1412	Saccharomycetales	<i>Zygoascus steatolyticus</i>	Animal	Absent	Deliquescent	Absent		
1199	Schizosaccharomycetales	<i>Schizosaccharomyces pombe</i>	Saprobe	Absent	Deliquescent	Absent		
	Chaetosphaerales	<i>Chaetosphaeria ovoidea</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Coronophorales	<i>Bertia moriformis</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
188	Hypocreales	<i>Balansia hemingsiana</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
187	Hypocreales	<i>Bionectria aureofulva</i> cf.	Saprobe	Ascohymenial	Poricidal	Ostiolar		
154	Hypocreales	<i>Bionectria ochroleuca</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
189	Hypocreales	<i>Claviceps purpurea</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
192	Hypocreales	<i>Cordyceps capitata</i>	Mycoparasite	Ascohymenial	Poricidal	Ostiolar		
162	Hypocreales	<i>Cordyceps cardinalis</i>	Animal pathogen	Ascohymenial	Poricidal	Ostiolar		
193	Hypocreales	<i>Cordyceps ophioglossoides</i>	Mycoparasite	Ascohymenial	Poricidal	Ostiolar		
999	Hypocreales	<i>Emericellopsis maritima</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed	Marine	
163	Hypocreales	<i>Epichloë typhina</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
1082	Hypocreales	<i>Gibberella zeae</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
186	Hypocreales	<i>Hydropisphaera erubescens</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
52	Hypocreales	<i>Hypocrea americana</i>	Mycoparasite	Ascohymenial	Poricidal	Ostiolar		
156	Hypocreales	<i>Hypocrea lutea</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Hypocreales	<i>Myrothecium roridum</i>	Saprobe					Asexual only
159	Hypocreales	<i>Nectria cinnabarina</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
161	Hypocreales	<i>Nectria haematococca</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Hypocreales	<i>Niesslia exilis</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
190	Hypocreales	<i>Ophionectria trichospora</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Hypocreales	<i>Peethambara spirostriata</i>	Saprobe					Asexual only
191	Hypocreales	<i>Pseudonectria rousseliana</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
155	Hypocreales	<i>Roumegueriella rufula</i>	Saprobe	Ascohymenial	Deliquescent	Enclosed		
	Hypocreales	<i>Sigmoidea marina</i>	Plant associate/ Plant endophyte				Marine	Asexual only
158	Hypocreales	<i>Sphaerostilbella berkeleyana</i>	Mycoparasite	Ascohymenial	Poricidal	Ostiolar		
	Hypocreales	<i>Stachybotrys chartarum</i>	Saprobe					Asexual only
	Hypocreales	<i>Stachybotrys subsimplex</i>	Saprobe					Asexual only
237	Hypocreales	<i>Verticillium dahliae</i>	Plant associate/Plant pathogen					Asexual only

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
1994	Incertae sedis	<i>Etheiophora unijubata</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
	Melanosporales	<i>Melanospora tiffanyae</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
	Melanosporales	<i>Melanospora zamiae</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
1285	Microascales	<i>Ambrosiella xylebori</i>	Saprobe					Asexual only
410	Microascales	<i>Aniptodera chesapeakeensis</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
1906	Microascales	<i>Ceratocystis fimbriata</i>	Plant associate/Plant pathogen	Ascohymenial	Deliquescent	Ostiolar		
	Microascales	<i>Corollospora angusta</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
	Microascales	<i>Corollospora maritima</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
1380	Microascales	<i>Doratomyces stemonitis</i>	Saprobe					Asexual only
1907	Microascales	<i>Gondwanamyces capensis</i>	Plant associate/Plant pathogen	Ascohymenial	Deliquescent	Ostiolar		
1415	Microascales	<i>Graphium penicillioides</i>	Plant associate/Plant pathogen					Asexual only
1837	Microascales	<i>Graphium</i> sp.	Saprobe					Asexual only
409	Microascales	<i>Halosphaeria appendiculata</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
737	Microascales	<i>Lignicola laevis</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
1237	Microascales	<i>Microascus longirostris</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
914	Microascales	<i>Microascus trigonosporus</i> var. <i>trigonosporus</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
761	Microascales	<i>Nimbospora effusa</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
956	Microascales	<i>Petriella setifera</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
794	Microascales	<i>Varicosporina ramulosa</i>	Saprobe				Marine	Asexual only
	Lulworthiales	<i>Lindra obtusa</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
413	Lulworthiales	<i>Lindra thalassiae</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
	Lulworthiales	<i>Lulworthia lignoarenaria</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
	Lulworthiales	<i>Lulworthia uniseptata</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
747	Lulworthiales	<i>Lulworthia grandispora</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
2179	Trichosphaeriales	<i>Khuskia oryzae</i> (as anamorph <i>Nigrospora oryzae</i> )	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
1361	Boliniales	<i>Camarops microspora</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
72	Boliniales	<i>Camarops ustulinoides</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Calosphaeriales	<i>Calosphaeria pulchella</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Calosphaeriales	<i>Pleurostoma ootheca</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
278	Chaetosphaerales	<i>Chaetosphaeria tortuosa</i> (as anamorph <i>Menispora tortuosa</i> )	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Coronophorales	<i>Chaetosphaerella phaeostroma</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar		
1985	Diaporthales	<i>Amphilogia gyrosa</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Apiognomonina errabunda</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Chrysosporthe cubensis</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Cryphonectria nitschkei</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Cryphonectria parasitica</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
1238	Diaporthales	<i>Cryptodiaporthe aesculi</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Cryptosporella hypodermia</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
935	Diaporthales	<i>Diaporthe eres</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Diaporthe phaseolorum</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
1223	Diaporthales	<i>Endothia gyrosa</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
929	Diaporthales	<i>Eutypa lata</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
952	Diaporthales	<i>Gnomonia gnomon</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Leucostoma niveum</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Mazzantia napelli</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1167	Diaporthales	<i>Melanconis marginalis</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
936	Diaporthales	<i>Melanconis stilbostoma</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Plagiostoma euphorbiae</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
924	Diaporthales	<i>Togninia minima</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Valsa ambiens</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
	Diaporthales	<i>Valsella salicis</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
1396	Incertae sedis	<i>Acremonium alternatum</i>	Mycoparasite					Asexual only
1394	Incertae sedis	<i>Acremonium atrogriseum</i>	Saprobe					Asexual only
1395	Incertae sedis	<i>Acremonium breve</i>	Saprobe					Asexual only
1393	Incertae sedis	<i>Acremonium murorum</i>	Saprobe					Asexual only
1391	Incertae sedis	<i>Acremonium persicinum</i>	Saprobe					Asexual only
1392	Incertae sedis	<i>Acremonium strictum</i>	Saprobe					Asexual only
	Incertae sedis	<i>Annulusmagnus triseptatus</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		

AFTOL	Order	Taxon	Ecology	Development	Ascus	Ascoma	Marine	Sexual state
734	Incertae sedis	<i>Gaeumannomyces medullaris</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar	Marine	
1265	Incertae sedis	<i>Glomerella cingulata</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
736	Incertae sedis	<i>Lanspora coronata</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
1081	Incertae sedis	<i>Magnaporthe grisea</i>	Plant associate/Plant pathogen	Ascohymenial	Poricidal	Ostiolar		
748	Incertae sedis	<i>Papulosa amerospora</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar	Marine	
766	Incertae sedis	<i>Phomatospora bellaminuta</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar	Marine	
172	Incertae sedis	<i>Thyridium vestitum</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
751	Incertae sedis	<i>Torpedospora radiata</i>	Saprobe	Ascohymenial	Deliquescent	Ostiolar	Marine	
910	Ophiostomatales	<i>Ophiostoma piliferum</i>	Plant associate/Plant pathogen	Ascohymenial	Deliquescent	Ostiolar		
1038	Ophiostomatales	<i>Ophiostoma stenoceras</i> 1	Plant associate/Plant pathogen	Ascohymenial	Deliquescent	Ostiolar		
	Ophiostomatales	<i>Ophiostoma stenoceras</i> 2	Plant associate/Plant pathogen	Ascohymenial	Deliquescent	Ostiolar		
967	Sordariales	<i>Bombardia bombardia</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
915	Sordariales	<i>Coniochaeta ostreum</i> (as <i>Coniochaetidium ostreum</i> )	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1287	Sordariales	<i>Gelasinospora tetrasperma</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
17	Sordariales	<i>Lasiosphaeria ovina</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1078	Sordariales	<i>Neurospora crassa</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1085	Sordariales	<i>Podospira anserina</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
216	Sordariales	<i>Sordaria fimicola</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1229	Xylariales	<i>Amphisphaeria umbrina</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
732	Xylariales	<i>Anthostomella torosa</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar	Marine	
951	Xylariales	<i>Apiospora montagnei</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
927	Xylariales	<i>Diatrype disciformis</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
1249	Xylariales	<i>Graphostroma platystoma</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
392	Xylariales	<i>Seynesia erumpens</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
63	Xylariales	<i>Xylaria acuta</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
51	Xylariales	<i>Xylaria hypoxylon</i>	Saprobe	Ascohymenial	Poricidal	Ostiolar		
266	Taphrinales	<i>Protomyces inouyei</i>	Plant associate/Plant pathogen	Absent	Non-poricidal	Absent		
1234	Taphrinales	<i>Taphrina deformans</i>	Plant associate/Plant pathogen	Absent	Non-poricidal	Absent		
265	Taphrinales	<i>Taphrina wiesneri</i>	Plant associate/Plant pathogen	Absent	Non-poricidal	Absent		

\*\*\*The development of Neolecta shows some difference with filamentous fungi in the Pezizomycotina (Hewitt, D.H., personal communication),

coding it as either ascohymenial or uncertain did not significantly change other character assessments