

Supplementary materials

Supplementary Table S1: List of specimens; culture, herbarium access number, isolate, strain or voucher collection (V); and GenBank accession numbers.

Species	Clone (Cl), culture (C), herbarium access number (H), isolate (I), strain (S) or voucher collection (V)	LSU rDNA accession n ^o	ITS rDNA accession n ^o
<i>Acanthocorticium brueggemannii</i>	(V) JMB2122	KT275195	-
<i>Acanthocorticium brueggemannii</i>	(V) JMB2621	KT275196	-
<i>Akenomyces costatus</i>	(S) CBS:371.86	MH873657	-
<i>Akenomyces costatus</i>	(S) CBS:513.83	MH873350	MH861635
<i>Amyloflagellula inflata</i>	(S) PB305	AY570990	-
<i>Armillaria fuscipes</i>	(S) CMW 4953	DQ338556	-
<i>Armillaria gallica</i>	(I) H1-6	JF895904	-
<i>Armillaria mellea</i>	(V) GLM 45871	AY207144	-
<i>Armillaria mellea</i>	(V) GDA51998	EU266542	-
<i>Armillaria ostoyae</i>	(V) R1374	AY973747	-
<i>Armillaria ostoyae</i>	(V) NA144	AY973752	-
<i>Armillaria</i> sp.	(S) CM 10115	FJ875696	-
<i>Armillaria tabescens</i>	(S) CMW 3165	DQ338546	-
<i>Athelia bombacina</i>	(S) ATCC 20629	AF279377	-
<i>Atheniella rutila</i>	(V) FFAAS 0354	NG 153951	-
<i>Baeospora myosura</i>	(I) AFTOL-ID 1799	DQ457648	-
<i>Boletus griseiceps</i>	(V) HKAS 82692	NG 058675	-
<i>Boletus subviolaceofuscus</i>	(V) HKAS 83149	NG 058676	-
<i>Bulbillomyces farinosus</i>	(V) FO24378	AJ406578	-
<i>Calathella columbiana</i>	(S) PB327	AY570993	AY571028
<i>Calathella gayana</i>	(S) ZT8836	AY572005	-
<i>Calathella mangrovei</i>	(S) 1-31-0	-	AY571029
<i>Calypotella capula</i>	(S) CBS:485.86	AY570994	-
<i>Calypotella capula</i>	(S) PB315	AY570995	-
<i>Calypotella</i> sp.	(V) 7110217	AB512346	-
<i>Campanophyllum proboscideum</i>	(V) TENN56402	AY230866	-
<i>Campanophyllum proboscideum</i>	(V) TENN56427	AY230867	-
<i>Cheimonophyllum candidissimum</i>	(I) AFTOL-ID 1765	DQ457654	-
<i>Chondrostereum purpureum</i>	(V) C277	KR264909	-
<i>Chondrostereum purpureum</i>	(V) GEL5348	AJ406563	-
<i>Chondrostereum purpureum</i>	(I) CBS 350 53	MH868775	-
<i>Chromocyphella lamellata</i>	(V) AH 45802	MF623831	-
<i>Clitocybula oculus</i>	(S) DAOM195995	AF261367	-
<i>Crepidotus subfulviceps</i>	(I) MCA 3276	FJ947117	-

<i>Crinipellis stipitaria</i>	(S) PB302	AY570997	-
<i>Cunninghammyces</i> sp.	(V) He5311	-	MW557940
<i>Cunninghammyces</i> sp.	(V) He5313	-	MW557941
<i>Cyphella digitalis</i>	(I) Thorn-617	AY293175	-
<i>Cyphella digitalis</i>	(I) AFTOL-ID 663	AY635771	-
<i>Cyphelloporia bialoviensis</i>	(V) KRAM F-59691	ON391555	-
<i>Cyphelloporia bialoviensis</i>	(S) G1780	MK278141	-
<i>Cyptotrama asprata</i>	(V) ZRL2015093	KY418873	-
<i>Dendrothele acerina</i>	(S) G0632	MK277925	-
<i>Dendrothele alliacea</i>	(S) G0488	MK277926	-
<i>Dendrothele bispora</i>	(S) CBS:962.96	-	OM238172
<i>Dendrothele griseocana</i>	(C) CBS:340.66	-	MH858816
<i>Dendrothele incrustans</i>	(S) HHB-19092	-	MW740330
<i>Dendrothele microspora</i>	(S) FP.101998	-	OQ694474
<i>Dendrothele minutissima</i>	(S) G1841	MK277929	-
<i>Dendrothele nivosa</i>	(V BHI-F632	-	MF161308
<i>Dendrothele nivosa</i>	(V) iNat62633580	-	ON129313
<i>Dendrothele</i> sp.	(S) G1907	MK277935	-
<i>Dendrothele</i> sp.	(S) G1876	MK277934	-
<i>Entoloma bloxamii</i>	(S) TB6117	AF261289	-
<i>Entoloma eulividum</i>	(S) TB6807	AF261295	-
<i>Eoscyphella luciurceolata</i>	(V) FBIPBio94	OR230674	OR230672
<i>Eoscyphella luciurceolata</i>	(V) FBIPBio96	OR230673	OR230671
<i>Eoscyphella</i> sp.	(V) FPIBio01	-	OR260255
<i>Filoboletus manipularis</i>	(I) ACL252	KJ206957	-
<i>Filoboletus manipularis</i>	(I) KUBOT-KRMK-2020-53	MW444998	-
<i>Filoboletus pallescens</i>	(V) BAP 654	MH385337	-
<i>Filoboletus pallescens</i>	(V) DED 8303	MH385336	-
<i>Fistulinella ruschii</i>	(H) FLOR 51611	NG_060432	-
<i>Flagelloscypha austrofilicis</i>	(V) PDD 105591	KM975368	KM975436
<i>Flagelloscypha eruciformis</i>	(V) K(M) 181434	-	MZ159475
<i>Flagelloscypha eruciformis</i>	(V) MH-2018-0187	-	MK434305
<i>Flagelloscypha eruciformis</i>	(V) MH-2018-0190	-	MK434306
<i>Flagelloscypha japonica</i>	(V) NBRC 101830	AB455964	LC146734
<i>Flagelloscypha minutissima</i>	(S) CBS:823.88	AY571006	-
<i>Flagelloscypha minutissima</i>	(C) M01452:264	-	LR872900
<i>Flagelloscypha</i> sp.	(V) Horak 9544	AY571007	AY571041
<i>Flagelloscypha</i> sp.	(V) FLAS-F-70981	OP932039	OP932048
<i>Flagelloscypha</i> sp.	(V) NBRC 104516	AB455962	-
<i>Flagelloscypha</i> sp.	(V) P. del j.	JX243756	-
<i>Flammula alnicola</i>	(I) AFTOL-ID 1501	DQ457666	-
<i>Galerina</i> sp.	(V) PR6574	HQ827183	-

<i>Gerronema baishanzuense</i>	(V) FFAAS0359	OL985984	-
<i>Gerronema indigoticum</i>	(V) HMJAU47636	MK693732	-
<i>Gerronema keralense</i>	(V) CAL 1666	NG_064531	-
<i>Gerronema kuruvense</i>	(V) CAL 1665	NG_064530	-
<i>Gerronema nemorale</i>	(V) FFAAS0379	OL985998	-
<i>Gerronema nemorale</i>	(V) FFAAS0377	OL985997	-
<i>Gerronema</i> sp.	(V) OKM27143	AF261365	-
<i>Gerronema strombodes</i>	(S) JEJ 580	AF261364	-
<i>Gerronema subclavatum</i>	(I) Redhead 5175	U66434	-
<i>Gerronema viridilucens</i>	(V) DED7822	OR449361	-
<i>Gerronema wildpretii</i>	(V) BRNM 788347	LT854043	-
<i>Gerronema xanthophyllum</i>	(V) PRM 924657	LT854023	-
<i>Gerronema zhujian</i>	(V) FFAAS0364	OL985994	-
<i>Gerronema zhujian</i>	(V) FFAAS037	OL985995	-
<i>Gloeostereum</i> sp.	(S) CBS 145006	MN266884	-
<i>Granulobasidium vellereum</i>	(I) AFTOL-ID 887	AY745729	-
<i>Halocyphina villosa</i>	(V) NBRC 32086	AB455965	-
<i>Halocyphina villosa</i>	(S) IFO32088	-	AY571042
<i>Hebeloma microspora</i>	(V) E Rebaudengo 5-V-1976	MF039240	-
<i>Henningsomyces candidus</i>	(S) PB338	AY571008	-
<i>Henningsomyces candidus</i>	(S) R.G.Thorn156	AF287864	-
<i>Henningsomyces puber</i>	(S) GUA-307	AY571009	-
<i>Henningsomyces</i> sp.	(V) FP-105017	AY571010	-
<i>Hydropus fuliginarius</i>	(V) DAOM196062	AF261368	-
<i>Hydropus trichoderma</i>	(S) G0347	MK278158	-
<i>Hymenogloea papyracea</i>	(S) Halling 5013	AF261344	-
<i>Lachnella alboviolascens</i>	(S) PB332	AY571012	-
<i>Lachnella alboviolascens</i>	(S) DAOM223321	AF261475	-
<i>Lachnella alboviolascens</i>	(S) MO315410	-	MH558281
<i>Lachnella</i> sp.	(I) ES104	-	MN218811
<i>Lachnella tiliae</i>	(S) G0887	MK277903	-
<i>Lachnella villosa</i>	(S) CBS:609.87	DQ097347	-
<i>Lachnella villosa</i>	(S) PB322	AY571014	AY571050
<i>Lachnella villosa</i>	(S) PB321	AY571013	AY571049
<i>Lachnella villosa</i>	(V) CCJ 1547	DQ071724	-
<i>Macrotyphula fistulosa</i>	(V) TUB 011469	DQ071735	-
<i>Maireina filipendula</i>	(V) TL14226	KX772745	KX772745
<i>Maireina filipendula</i>	(V) TL2015-724890	KX772746	KX772746
<i>Maireina monacha</i>	(V) ALV30536	OR197581	OP099548
<i>Maireina subsphaerosphora</i>	(V) ALV34117	OR197528	-
<i>Maireina subsphaerosphora</i>	(V) ALV27634	OP099548	OP099549
<i>Marasmius delectans</i>	(I) DED 89/62	U11922	-

<i>Marasmius fulvo ferrugineus</i>	(S) HN2346	AF261584	-
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(V) TL2015-719433	KX772747	KX772748
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(S) PB323	AY570999	AY571036
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(S) PB318	AY570998	AY571036
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(S) PB333	AY571000	-
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(S) CBS:151.79	AF426955	AY571034
<i>Merismodes anomala</i> as ' <i>Cyphellopsis</i> '	(V) GEL4169	AJ406522	-
<i>Merismodes fasciculata</i>	(S) PB342	AY571016	AY571052
<i>Merismodes fasciculata</i>	(S) G1064	MK278379	-
<i>Merismodes fasciculata</i>	(S) HHB-11894	AY571051	-
<i>Merismodes fasciculata</i>	(V) K(M)194471	MZ159522	-
<i>Merismodes fasciculata</i>	(I) HHB-11894	AY571015	-
<i>Merismodes</i> sp.	(V) Alden Dirks ACD0273	MZ919217	-
<i>Mycena caeruleomarginata</i>	(V) FFAAS 0357	NG 153993	-
<i>Mycena cahaya</i>	(I) ACL134	KJ206950	-
<i>Mycena</i> cf. <i>Quiniaultensis</i>	(V) OSC 67121	EU681183	-
<i>Mycena chlorophos</i>	(I) ACL 259	JX975221	-
<i>Mycena chlorophos</i>	(I) ACL 055	JX975220	-
<i>Mycena crocata</i>	(V) GLM 45968	AY207241	-
<i>Mycena galericulata</i>	(V) GLM 45970	AY207251	-
<i>Mycena galopus</i>	(V) GLM 45971	AY207250	-
<i>Mycena haematopus</i>	(V) GLM 45972	AY207252	-
<i>Mycena illuminans</i>	(I) ACL 175	JX975218	-
<i>Mycena illuminans</i>	(I) ACL 161	JX975217	-
<i>Mycena indigotica</i>	(S) WEI16-475	MH063432	-
<i>Mycena lucentipes</i>	(V) DED7828	OR343215	-
<i>Mycena maculata</i>	(V) GLM 45974	AY207254	-
<i>Mycena noctilucens</i>	(I) ACL054	KJ206947	-
<i>Mycena olivaceomarginata</i>	(V) GLM 45976	AY207255	-
<i>Mycena polygramma</i>	(V) TUB 011575	DQ071707	-
<i>Mycena pura</i>	(I) TM02 201	EU522743	-
<i>Mycena sanguinolenta</i>	(V) GLM 45982	AY207257	-
<i>Mycena seminau</i>	(I) ACL136	KJ206952	-
<i>Mycena sinar</i>	(I) ACL092	KJ206948	-
<i>Mycena</i> sp.	(V) JMCR 32	AF261362	-
<i>Mycena</i> sp.	(I) ACL133	KJ206949	-
<i>Mycena tintinnabulum</i>	(V) GLM 45983	AY207258	-
<i>Mycena zephrus</i>	(V) GLM 45984	AY207259	-
<i>Mycopan scabripes</i>	(S) G0261 MK278154	MK278154	-
<i>Mycopan scabripes</i>	(I) DAOM192847	AF042635	-
<i>Neonothopanus gardneri</i>	(H) SP:416340	JF344714	-
<i>Neonothopanus nambi</i>	(I) ACL251	KJ206956	-

<i>Neonothopanus nambi</i>	(I) ACL155	KJ206954	-
<i>Neonothopanus nambi</i>	(V) HNJAU 48224	MW250232	-
<i>Nia</i> sp.	(V) MF 1330	MK491335	
<i>Nia</i> sp.	(S) CBS H-23851	MK491336	OQ555325
<i>Nia vibrissa</i>	(V) NBRC 32090	AB455968	-
<i>Nia vibrissa</i>	(I) FCUL170907CF6	MG597153	-
<i>Nia vibrissa</i>	(V) FCUL070108CF9	MG597151	-
<i>Nia vibrissa</i>	(V) NBRC 32089	AB455967	-
<i>Nia vibrissa</i>	(I) CBS:1198.15	-	OQ694464
<i>Nia vibrissa</i>	(I) REG M200	-	AY57105
<i>Omphalotus japonicus</i>	(I) 456	AF042008	-
<i>Omphalotus nidiformis</i>	(S) CBS:323.49	MH868064	-
<i>Omphalotus nidiformis</i>	(S) G1765	MK278424	-
<i>Omphalotus olearius</i>	(I) CBS:141.34	AF042010	-
<i>Omphalotus olivascens</i>	(S) VT645 7	AF261325	-
<i>Panaeolina foenicisii</i>	(I) J152	AF041537	-
<i>Panellus crassiporus</i>	(V) Dai 23664	ON074730	-
<i>Panellus crassiporus</i>	(V) BJFC 031637	NG_088354	-
<i>Panellus luminescens</i>	(I) ACL205	KJ206955	-
<i>Panellus pusillus</i>	(S) RV PR98 36	AF261425	-
<i>Panellus stipticus strain</i>	(S) CBS 389 50	MH868192	-
<i>Panellus stypticus</i>	(S) GLM 51801	AY398745	-
<i>Pellidiscus pallidus</i>	(S) C58178	AY571017	-
<i>Pellidiscus</i> sp.	(Cl) H06M7K43	HF676376	-
<i>Peyronelina glomerulata</i>	(V) NBRC 104517	AB455955	-
<i>Peyronelina glomerulata</i>	(V) NBRC 104522	AB455961	-
<i>Peyronelina glomerulata</i>	(V) NBRC 104521	AB455959	-
<i>Peyronelina glomerulata</i>	(V) NBRC 102381	AB455958	-
<i>Phaeosolenia densa</i>	(S) C61963	AY571019	-
<i>Phaeosolenia densa</i>	(S) C61839	AY571018	-
<i>Phyllotopsis nidulans</i>	(V) TENN F-69019	KP026224	-
<i>Phyllotopsis nidulans</i>	(I) TFB11482	KP026220	-
<i>Pleurocybella porrigens</i>	(I) AFTOL-ID 2001	EF537894	-
<i>Pleurocybella porrigens</i>	(V) TUB 012154	DQ071737	-
<i>Pleurotus eryngii</i>	(I) d9	AY524788	-
<i>Pleurotus nebrodensis</i>	(S) ACCC 51060	EU365659	-
<i>Pleurotus nebrodensis</i>	(I) P151	MG282550	-
<i>Pleurotus ostreatus</i>	(S) CBS 375 51	EU365665	-
<i>Pleurotus ostreatus</i>	(V) TUB 011571	DQ071722	-
<i>Pleurotus pulmonarius</i>	(I) d3	AY524787	-
<i>Pleurotus pulmonarius</i>	(V) BORHF0429	MH178092	-
<i>Pouzarella nodospora</i>	(S) TB5716	AF261308	-

<i>Pseudolasiobolus minutissimus</i>	(V) G M 2017-11-19	MN630583	MN630583
<i>Rectipilus fasciculatus</i>	(V) GEL4482	AJ406553	-
<i>Rectipilus idahoensis</i>	(S) PB313	AY571020	-
<i>Rectipilus natalensis</i>	(S) PB312	AY571021	-
<i>Rectipilus</i> sp.	(V) G1859	MK277907	-
<i>Rectipilus</i> sp.	(V) G1863	MK277909	-
<i>Resupinatus alboniger</i>	(S) G0079	MK278439	-
<i>Resupinatus conspersus</i>	(V) C61852	AY571024	-
<i>Rhodocybe mundula</i>	(S) TB4698	AF261284	-
<i>Roridomyces roridus</i>	(V) NOFQB24 Q35	LC757539	-
<i>Roridomyces roridus</i>	(V) GLM 45980	AY207298	-
<i>Roridomyces roridus</i>	(S) DAOM215019	AF261408	-
<i>Simocybe rhabarbarina</i>	(V) LUG 19069	NG 059999	-
<i>Stigmatolemma urceolatum</i>	(S) G0373	MK278578	-
<i>Stromatoscypha fimbriatum</i>	(S) HC.10/11/98.C	AF261370	-
<i>Stromatoscypha fimbriatum</i>	(S) FP102067	AF261371	-
<i>Trogia infundibuliformis</i>	(S) KUN HKAS63661	JQ031780	-
<i>Trogia infundibuliformis</i>	(S) KUN HKAS56709	JQ031781	-
<i>Trogia venenata</i>	(S) KUN HKAS54710	JQ031778	-
<i>Trogia venenata</i>	(S) KUN HKAS56679	JQ031779	-
<i>Tubaria hiemalis</i>	(V) MCA385	AF205689	-
<i>Tubaria keralensis</i>	(V) CAL 1311	KX585250	-
<i>Tubaria peculiaris</i>	(V) PDD 98277	KY827260	-
<i>Tubaria peculiaris</i>	(V) PDD 72769	KY827259	-
<i>Woldmaria crocea</i>	(S) G1864 MK278664	MK278664	-
<i>Woldmaria crocea</i>	(S) NH 10.23.95	AY571026	-
<i>Xerula strigosa</i>	(V) Zhu513	KF530568	-