

Table S2: Identity of SSU OTUs (100% similarity) and distribution across libraries

OTU	Bit Score	Kingdom or Subkingdom	Phylum	Order or Subclass	Genus	P	MH	Sequence numbers
001	1923	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	7	5	dfmo4344_009, dfmo4344_036, dfmo4344_044, dfmo4344_060, dfmo4344_065, dfmo4345_039, dfmo4345_055, dfmo4345_057, dfmo4345_068, dfmo4345_074, dfmo4345_079, dfmo4345_102
002	1429	Fungi	Basidiomycota	Agaricales	Inocybe	4	0	dfmo4345_031, dfmo4345_072, dfmo4345_108, dfmo4345_109
003	1398	Fungi	Basidiomycota	Agaricales	Panellus	1	2	dfmo4344_025, dfmo4344_076, dfmo4345_059
004	1457	Fungi	Basidiomycota	Russulales	Russula	3	0	dfmo4345_005, dfmo4345_007, dfmo4345_056
005	1788	Fungi	Ascomycota	Leotiomycetidae	Mycoarthris	0	2	dfmo4344_011, dfmo4344_068
006	1199	Fungi	Glomeromycota	Glomales	Glomus	0	2	dfmo4344_031, dfmo4344_032
007	1247	Fungi	Basidiomycota	Polyporales	Poria	0	2	dfmo4344_056, dfmo4344_057
008	1320	Fungi	Ascomycota	Eurotiomycetidae	Ajellomyces	0	2	dfmo4344_021, dfmo4344_101
009	1435	Plantae	Embryophyta		Pinus	0	2	dfmo4344_062, dfmo4344_064
010	1447	Fungi	Ascomycota	Sordariomycetidae	Hypocrea	1	1	dfmo4344_051, dfmo4345_012
011	1156	Metazoa	Arthropoda		Xenillus	2	0	dfmo4345_030, dfmo4345_033
012	1346	Fungi	Basidiomycota	Polyporales	Dendrocorticium	1	1	dfmo4344_096, dfmo4345_028
013	1382	Fungi	Ascomycota	Dothidiomycetidae	Paraphaeosphaeria	0	2	dfmo4344_024, dfmo4344_102
014	1318	Fungi	Ascomycota	Chaetothyriomycetidae	Cladophialophora	2	0	dfmo4345_049, dfmo4345_092
015	1985	Fungi	Basidiomycota	Agaricales	Ossicaulis	0	1	dfmo4344_001
016	1740	Fungi	Basidiomycota	Agaricales	Panellus	0	1	dfmo4344_002
017	1958	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	0	1	dfmo4344_003
018	1757	Fungi	Ascomycota	Pezizomycetidae	Pseudoplectania	0	1	dfmo4344_006
019	1744	Metazoa	Nematoda		Xiphinema	0	1	dfmo4344_007
020	1220	Fungi	Ascomycota	Eurotiomycetidae	Ajellomyces	0	1	dfmo4344_010
021	1627	Fungi	Ascomycota	Pezizomycetidae	Rhizina	0	1	dfmo4344_012
022	710	Alveolata	Apicomplexa		Ophriocystis	0	1	dfmo4344_017
023	880	Metazoa	Nematoda		Trefusia	0	1	dfmo4344_019
024	1380	Fungi	Ascomycota	Dothidiomycetidae	Phaeotrichum	0	1	dfmo4344_020
025	1322	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	0	1	dfmo4344_022
026	1396	Fungi	Basidiomycota	Agaricales	Inocybe	0	1	dfmo4344_023
027	1344	Fungi	Basidiomycota	Agaricales	Panellus	0	1	dfmo4344_026
028	1417	Fungi	Ascomycota	Dothidiomycetidae	Epipolaeum	0	1	dfmo4344_027
029	1380	Fungi	Ascomycota	Leotiomycetidae	Mycoarthris	0	1	dfmo4344_029
030	1384	Fungi	Ascomycota	Sordariomycetidae	Leucostoma	0	1	dfmo4344_033
031	1431	Fungi	Basidiomycota	Tremellales	Cryptococcus	0	1	dfmo4344_034
032	1326	Fungi	Ascomycota	Chaetothyriomycetidae	Cladophialophora	0	1	dfmo4344_035
033	1306	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	0	1	dfmo4344_037
034	1396	Fungi	Ascomycota	Pezizomycetidae	Pseudoplectania	0	1	dfmo4344_038

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035	967	Fungi	Chytridiomycota	Chytridiales	Rhizophydium	0	1	dfmo4344_039
036	1390	Fungi	Basidiomycota	Agaricales	Calvatia	0	1	dfmo4344_041
037	1152	Alveolata			Nyctotherus	0	1	dfmo4344_043
038	1435	Fungi	Ascomycota	Sordariomycetidae	Myrothecium	0	1	dfmo4344_045
039	1312	Fungi	Basidiomycota	Polyporales	Sistotrema	0	1	dfmo4344_046
040	1320	Fungi	Zygomycota	Mortierellales	Mortierella	0	1	dfmo4344_048
041	1346	Fungi	Basidiomycota	Agaricales	Panellus	0	1	dfmo4344_049
042	1392	Fungi	Basidiomycota	Agaricales	Calvatia	0	1	dfmo4344_050
043	1400	Fungi	Basidiomycota	Polyporales	Tyromyces	0	1	dfmo4344_052
044	1384	Fungi	Basidiomycota	Russulales	Russula	0	1	dfmo4344_053
045	1376	Fungi	Basidiomycota	Sporidiales	Rhodotorula	0	1	dfmo4344_055
046	1350	Fungi	Zygomycota	Mortierellales	Umbelopsis	0	1	dfmo4344_059
047	880	Rhizaria	Cercozoa		Massisteria	0	1	dfmo4344_061
048	1268	Fungi	Ascomycota	Eurotiomycetidae	Ajellomyces	0	1	dfmo4344_063
049	1445	Fungi	Ascomycota	Sordariomycetidae	Leucostoma	0	1	dfmo4344_066
050	1411	Fungi	Basidiomycota	Agaricales	Calvatia	0	1	dfmo4344_067
051	1400	Fungi	Ascomycota	Sordariomycetidae	Hyponectria	0	1	dfmo4344_070
052	1291	Metazoa	Arthropoda		Xenillus	0	1	dfmo4344_071
053	1398	Plantae	Embryophyta		Pinus	0	1	dfmo4344_072
054	1447	Fungi	Ascomycota	Dothidiomycetidae	Epipolaeum	0	1	dfmo4344_073
055	1350	Fungi	Basidiomycota	Agaricales	Calvatia	0	1	dfmo4344_074
056	1289	Fungi	Ascomycota	Sordariomycetidae	Acremonium	0	1	dfmo4344_075
057	1425	Fungi	Ascomycota	Dothidiomycetidae	Epipolaeum	0	1	dfmo4344_079
058	1423	Fungi	Basidiomycota	Agaricales	Inocybe	0	1	dfmo4344_080
059	1447	Fungi	Ascomycota	Dothidiomycetidae	Melanomma	0	1	dfmo4344_081
060	1221	Fungi	Chytridiomycota	Spizellomycetales	Spizellomyces	0	1	dfmo4344_082
061	1396	Fungi	Basidiomycota	Agaricales	Panellus	0	1	dfmo4344_083
062	1023	Fungi	Ascomycota	Ostropales	Cyanoderrella	0	1	dfmo4344_085
063	1306	Fungi	Ascomycota	Sordariomycetidae	Cryphonectria	0	1	dfmo4344_086
064	1380	Fungi	Basidiomycota	Agaricales	Calvatia	0	1	dfmo4344_087
065	1451	Fungi	Ascomycota	Sordariomycetidae	Pestalotiopsis	0	1	dfmo4344_088
066	1324	Fungi	Basidiomycota	Polyporales	Dendrocorticium	0	1	dfmo4344_090
067	1390	Fungi	Zygomycota	Mortierellales	Mortierella	0	1	dfmo4344_092
068	1148	Alveolata			Ophriocystis	0	1	dfmo4344_093
069	1404	Fungi	Ascomycota	Sordariomycetidae	Hyponectria	0	1	dfmo4344_094
070	1058	Rhizaria	Cercozoa		Cercomonas	0	1	dfmo4344_095
071	1372	Fungi	Basidiomycota	Agaricales	Panellus	0	1	dfmo4344_097

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072	1225	Rhizaria	Cercozoa		Paulinella	0	1	dfmo4344_098
073	447	Sarcomastigota	Amoebozoa		Gephyramoeba	0	1	dfmo4344_099
074	1237	Metazoa	Arthropoda		Hypogastrura	0	1	dfmo4344_100
075	1259	Fungi	Chytridiomycota	Spizellomycetales	Powellomyces	0	1	dfmo4344_103
076	1378	Fungi	Ascomycota	Sordariomycetidae	Hyponectria	0	1	dfmo4344_104
077	1300	Alveolata			Blepharisma	1	0	dfmo4345_001
078	1060	Rhizaria	Cercozoa		Heteromita	1	0	dfmo4345_002
079	1332	Fungi	Zygomycota	Mortierellales	Mortierella	1	0	dfmo4345_003
080	760	Rhizaria	Cercozoa		Heteromita	1	0	dfmo4345_004
081	1005	Metazoa	Gastrotricha		Chaetonotus	1	0	dfmo4345_006
082	1291	Metazoa	Nematoda		Xiphinema	1	0	dfmo4345_008
083	1360	Fungi	Basidiomycota	Thelephorales	Thelephora	1	0	dfmo4345_009
084	1172	Fungi	Ascomycota	Pezizomycetidae	Tuber	1	0	dfmo4345_010
085	1241	Rhizaria	Cercozoa		Cercomonas	1	0	dfmo4345_013
086	1360	Fungi	Basidiomycota	Russulales	Russula	1	0	dfmo4345_014
087	1338	Alveolata			Ophriocystis	1	0	dfmo4345_015
088	904	Fungi	Ascomycota	Pezizomycetidae	Rhizina	1	0	dfmo4345_016
089	957	Fungi	Ascomycota	Leotiomycetidae	Rhytisma	1	0	dfmo4345_017
090	1005	Sarcomastigota	Choanozoa		Monosiga	1	0	dfmo4345_018
091	1027	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_019
092	743	Fungi	Ascomycota	Dothidiomycetidae	Lojkania	1	0	dfmo4345_020
093	1152	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_021
094	1398	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_022
095	1281	Metazoa	Arthropoda		Lepto thorax	1	0	dfmo4345_024
096	1197	Fungi	Basidiomycota	Agaricales	Calvatia	1	0	dfmo4345_025
097	779	Sarcomastigota	Amoebozoa		Saccamoeba	1	0	dfmo4345_026
098	1205	Metazoa	Nematoda		Xiphinema	1	0	dfmo4345_027
099	1429	Fungi	Basidiomycota	Trichosporonales	Cryptococcus	1	0	dfmo4345_029
100	1112	Metazoa	Nematoda		Paracanthochus	1	0	dfmo4345_034
101	1330	Fungi	Zygomycota	Mucorales	Gongronella	1	0	dfmo4345_035
102	1366	Fungi	Basidiomycota	Agaricales	Inocybe	1	0	dfmo4345_036
103	1053	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_038
104	1411	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_040
105	1201	Fungi	Chytridiomycota	Spizellomycetales	Spizellomyces	1	0	dfmo4345_041
106	1243	Fungi	Basidiomycota	Agaricales	Lepiota	1	0	dfmo4345_042
107	1116	Fungi	Basidiomycota	Polyporales	Limnoperdon	1	0	dfmo4345_043
108	1138	Metazoa	Arthropoda		Nehypochthonius	1	0	dfmo4345_044

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109	1350	Fungi	Basidiomycota	Russulales	Hericium	1	0	dfmo4345_046
110	1300	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	1	0	dfmo4345_047
111	1223	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_048
112	1320	Fungi	Chytridiomycota	Spizellomycetales	Powellomyces	1	0	dfmo4345_050
113	1049	Fungi	Basidiomycota	Polyporales	Poria	1	0	dfmo4345_051
114	949	Rhizaria	Cercozoa		Euglypha	1	0	dfmo4345_052
115	1453	Fungi	Basidiomycota	Cantharellales	Laccaria	1	0	dfmo4345_053
116	1423	Plantae	Embryophyta		Pinus	1	0	dfmo4345_058
117	755	Metazoa	Nematoda		Trefusia	1	0	dfmo4345_060
118	1429	Fungi	Ascomycota	Pezizomycetidae	Lasiobolus	1	0	dfmo4345_061
119	1237	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_063
120	1368	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	1	0	dfmo4345_064
121	1227	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_065
122	1330	Fungi	Basidiomycota	Polyporales	Trechispora	1	0	dfmo4345_067
123	951	Metazoa	Tardigrada		Macrobiotus	1	0	dfmo4345_069
124	1251	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_070
125	1394	Fungi	Basidiomycota	Thelephorales	Thelephora	1	0	dfmo4345_071
126	797	Fungi	Ascomycota	Saccharomycetidae	Candida	1	0	dfmo4345_073
127	1312	Fungi	Chytridiomycota	Spizellomycetales	Powellomyces	1	0	dfmo4345_075
128	1332	Fungi	Ascomycota	Lecanoromycetidae	Lasallia	1	0	dfmo4345_077
129	1392	Fungi	Zygomycota	Mortierellales	Mortierella	1	0	dfmo4345_078
130	1451	Fungi	Ascomycota	Dothidiomycetidae	Paraphaeosphaeria	1	0	dfmo4345_080
131	1386	Fungi	Basidiomycota	Polyporales	Trechispora	1	0	dfmo4345_081
132	1396	Fungi	Chytridiomycota	Spizellomycetales	Powellomyces	1	0	dfmo4345_082
133	1119	Fungi	Ascomycota	Dothidiomycetidae	Rhytidhysteron	1	0	dfmo4345_083
134	759	Fungi	Ascomycota	Dothidiomycetidae	Lojkania	1	0	dfmo4345_084
135	1431	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	1	0	dfmo4345_085
136	1376	Fungi	Basidiomycota	Agaricales	Calvatia	1	0	dfmo4345_086
137	854	Alveolata	Apicomplexa		Ophriocystis	1	0	dfmo4345_087
138	734	Fungi	Ascomycota	Dothidiomycetidae	Lojkania	1	0	dfmo4345_088
139	1065	Metazoa	Mollusca		Acila	1	0	dfmo4345_089
140	1453	Fungi	Zygomycota	Mortierellales	Umbelopsis	1	0	dfmo4345_090
141	1431	Fungi	Ascomycota	Sordariomycetidae	Tolypocladium	1	0	dfmo4345_091
142	1465	Metazoa	Nematoda		Xiphinema	1	0	dfmo4345_094
143	1433	Fungi	Ascomycota	Leotiomycetidae	Ascozonus	1	0	dfmo4345_095
144	1417	Fungi	Basidiomycota	Russulales	Russula	1	0	dfmo4345_096
145	1409	Fungi	Basidiomycota	Agaricales	Panellus	1	0	dfmo4345_097

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146	1958	Fungi	Ascomycota	Leotiomycetidae	Bulgaria	1	0	dfmo4345_098
147	1296	Fungi	Basidiomycota	Polyporales	Dendrocorticium	1	0	dfmo4345_099
148	787	Metazoa	Nematoda		Trefusia	1	0	dfmo4345_100
149	1459	Plantae	Embryophyta		Altingia	1	0	dfmo4345_101
150	1398	Fungi	Basidiomycota	Thelephorales	Thelephora	1	0	dfmo4345_103
151	1429	Fungi	Basidiomycota	Ceratobasidiales	Rhizoctonia	1	0	dfmo4345_104
152	989	Metazoa	Gastrotricha		Aspidiophorus	1	0	dfmo4345_106
153	1223	Metazoa	Arthropoda		Sphaeridia	1	0	dfmo4345_107