MP3954396 Leucocybe connata (dirty)
NA88 Sagaranella tylicolor/tesquorum (same ITS)
MP3956605 WA Sagaranella tylicolor
KP192538.1 Sagaranella tylicolor Bellinger EU
Asterophora lycoperdoides UNITE EU+global UDB015170
Asterophora lycoperdoides iNat#30765687 WA
Asterophora cf lycoperdoides iNat#30974269 WA
Asterophora parasitica UNITE EUx7 (+MX) UDB018796
Sphagnurus cf paluster PQ (type NY) UNITE EUx9
AF357043.2 Sphagnurus paluster Bellinger EU
EU697260.1 Tephrocybe rancida OR (3-4/0)
EU669249.1 Tephrocybe rancida OR (3-4/0)
EU669250.1 Tephrocybe rancida OR (3-4/0)
Tephrocybe rancida UNITE EUx46 JF519599
EU669248.1 Tephrocybe rancida OR (3-4/0)
EU697259.1 Tephrocybe rancida OR (3-4/0)
Ossicaulis lignatilis UNITE EUx9 HE649949
MW391255.1 Ossicaulis aff lignatilis iNat65459899 OR
DQ917653.1 Ossicaulis aff lignatilis 4% ID
Rhizocybe rhizoides KC1702 (MO 278655) (0/1 type +Ns)
HQ179665 Rhizocybe rhizoides TYPE TN
KJ681028.1 Rhizocybe pruinosa EU official Alvarado
R. cf vermicularis subsp americana WA (type WA) iNat #42960264 (>2% alba)
KY030726 Rhizocybe alba China (TYPE?)
Rhizocybe (’Clitocybe’) albirhiza OR spring iNat24964312 (type ID)
KJ681033.1 Rhizocybe cf vermicularis EU?
KJ681034 Rhizocybe vermicularis official Alvarado EU
Rhizocybe cf vermicularis EU UDB0686854
Lyophyllaceae? as Lactarius deliciosus OR (MP 6598678)
KP192572.1 Calocybe carneus EU
KP192592.1 Calocybe carneus EU
JF907773.1 Calocybe carneus EU
Calocybe persicolor UNITE EU JF907773
AF357028.2 Calocybe persicolor Bellinger (prob = older C. carnea) EU
Calocybe carnea 1/2-3/4 EU (as collybia_eatonae_JWL1687B)
Calocybe gambosa UNITE EUx32 UDB000593
AF357027.2 Calocybe gambosa UNITE EU (inside SH)
KP192622.1 Calocybe cf onychina EU
KP192622.1 Calocybe onychina Bellinger EU
KP192651.1 Calocybe cf onychina EU
MW084664.1 Calocybe aff onychina OR (4/3 EU)
AF357030.2 Calocybe fallax Bellinger(=C. naucoria) (1.5% + 1% at beg)
KP192543.1 Calocybe cf fallax (= newer but accepted naucoria) EU
KP192543.1 Calocybe fallax Bellinger (=C. naucoria) EU
MW084663.1 Calocybe fallax OR
Calocybe cf fallax EU KP885641
Calocybe cf fallax EU KP885642
Calocybe cf fallax EU KP885643
MT955135.1 Hypsizygus cf marmoreus AK SAT-12-248-04
KP192623 H. cf tessulatus EUx1 1791 (4/0/1 PNW, 4/1 marmoreus) (inside UNITE marmoreus 0.5%)
Hypsizygus marmoreus UNITE worldwidex107 (type NY) FJ609279 (1872 cultivated name)
MF955173.1 Hypsizygus cf marmoreus UBC F-31125
Hypsizygus tessulatus iNat#35077147 Vanc BC (6/0/1 marmoreus)
MF955193.1 Hypsizygus tessulatus UBC F-32233
iNat17296519 Hypsizygus tessulatus OR (0/0/2 BC)
Hypsizygus ulmarius UNITE EU#1 UDB019612 (no dots, elm only)
NR_158299.1 Leucocybe (’Clitocybe’) salmonilamella TYPE CA
iNat17471967 Leucocybe (’Clitocybe’) salmonilamella OR 0/0
Leucocybe salmonilamella WA (as deceptiva BTSP #18?) 0/0
iNat34054644 BTSP Clitocybe salmonilamella (3/2+dirty)
DQ202268 Leucocybe candicans official Alvarado EU+ENA
MH090923.1 Leucocybe connata OR JLF5911
KJ681025 Leucocybe connata official Alvarado EU
MP 3954394 Leucocybe connata (dirty alleles)
MG953997 Leucocybe connata UBC F33256
Tephroderma sp. WA MP3955672 >5%
NR_154493.1 Tephroderma fuscopallens TYPE France
Lyophyllaceae? WA (MO 361959)
MT378388.1 Atractosporocybe inornata (type variety) OR JLF8485 iNat36890476
KJ680995 Atractosporocybe inornata official Alvarado EU
Atractosporocybe inornata 3% (subsp occidentalis?) BTSP iNat18661705
Gen nov. cf subditopoda OR iNat17477903 (Atractosporocybe/Tephroderma sister)
EU852800.1 Clitocybe cf subditopoda OSC
DQ202269.1 ’Clitocybe’ cf subditopoda Peck MA (Alvarado #1) type NY (or other genus)
KP192644.1 Lyophyllum Bellinger clade 1 (cf Tephrocybe striaepilea) EU
AF357055.2 Lyophyllum Bellinger clade 3 (’Tephrocybe’ anthracophila) EU
AF357053.2 Lyophyllum Bellinger clade 2 (’Tephrocybe’ atrata) EU
Lyophyllum cf fumosum UNITE EU #2 HM572539
MK280713 Lyophyllum decastes group #3 JLF3306 CA iNat65374882 spring
Lyophyllum decastes group #3 WA/ID iNat #43027918 spring
Lyophyllum decastes group #3 OR spring iNat24962715
MW015746.1 Lyophyllum decastes group #3 (pale spring) JLF8646 CA iNat59938487
Lyophyllum decastes group #3 OR spring MO204772
Lyophyllum fumosum Bellinger clade 7 (UNITE & IF =decastes) EU#1x23) JF908340
KP192663.1 Lyophyllum cf. decastes/conglobatum (Bellinger clade 8) FR
HM572529.1 Lyophyllum shimeji Bellinger clade 6 EU
MK280715.1 Lyophyllum aff shimeji JLF5957 OR
MT378289.1 Lyophyllum aff shimeji (2/0-1/1) JLF8444 OR iNat 43504800
Lyophyullum shimeji Bellinger clade 6 UNITE Japan+worldwide EU222980
AB301604.1 Lyophyllum shimeji Bellinger clade 6 EU
Lyophyllum cf decastes Bellinger clade 9 UNITE EU #3 HM572547
Lyophyllum decastes Bellinger clade 9 (UNITE EUx2) AF357059
MW555172.1 L. aff decastes (1% EU but EU varies by 1%) OR JLF9213 iNat68937981
MF955186.1 Lyophyllum aff decastes Manning Park BC +EUx1
iNat17784220 Lyophyllum aff decastes WA
MW621868.1 Lyophyllum aff decastes OR JLF2935
MW621166.1 Lyophyllum aff decastes OR JLF3182
HM572548.1 Lyophyllum decastes clade 9 EU
Lyophullum decastes Bellinger clade 9 (UNITE EUx1) HM572548
Lyophyllum cf loricatum Bellinger clade 10 (UNITE decastes EU#2x19) JF908336
JX280407.1 Lyophyllum clade 10 cf loricatum f. subxanthum TYPE IT
KP192545.1 Lyophyllum Bellinger clade 5 (cf ’Tephrocybe’ ambusta/carbonaria #2) EU
AF357057.2 Lyophyllum Bellinger clade 4 (cf ’Tephrocybe’ ambusta/carbonaria #1) EU
JF908331.1 Lyophyllum caerulescens blackening Bellinger clade 2 EU
KP192617.1 Lyophyllum pseudosinuatum blackening Bellinger clade 1 EU
KP192653.1 Lyophyllum transforme blackening Bellinger clade 14 EU
KP192614.1 Lyophyllum rhopalopodium blackening Bellinger clade 15 EU
JX966307.1 Lyophyllum sp. blackening Bellinger clade 4 EU
KP192568.1 Lyophyllum sp. blackening Bellinger clade 3 EU
AF357050.2 Lyophyllum sykosporum blackening Bellinger clade 5 EU
Lyophyllum cf semitale WA spring MO238824 9x5.5u
Lyophyllum cf semitale OR spring iNat24964932
Lyophyllum cf semitale Buck #928 Fall
MK280714.1 Lyophyllum cf semitale JLF5884 (3/0/1 8322) iNat66019348 fall
Lyophyllum cf semitale JLF8322 OR iNat35170067 fall
KP192662.1 Lyophyllum sp. blackening Bellinger clade 6 EU
KP192554.1 Lyophyllum amariusculum blackening Bellinger clade 7 EU
KP192597.1 Lyophyllum sp. blackening Bellinger clade 13 EU
Lyophyllum (big cluster) Victoria BC UDB0778250
Lyophyllum (big cluster) WA iNat34607503
KU574739.1 Lyophyllum (big cluster) cf. pallidum OR
Lyophyllum (big cluster) WA iNat 34666034
Lyophyllum (big cluster) CA DQ273423
MP3955675 Lyophyllum (big cluster) WA
JF908338.1 Lyophyllum sp. blackening Bellinger clade 8 EU
KP192591.1 Lyophyllum sp. "aemiliae_f" blackening Bellinger clade 12 EU
KP192582.1 Lyophyllum sp. "aemiliae_f" blackening Bellinger clade 12 EU
AF357049.2 Lyophyllum cf semitale #4 EU? (aff 9)
Lyophyllum semitale UNITE EU#4/aemiliae KP192562 (aff 9)
KP192596.1 Lyophyllum aemiliae blackening Bellinger clade 9 EU
Lyophyllum semitale UNITE EU#2 UDB037297 (aff 9)
Lyophyllum semitale UNITE EU#5/maleolens UDB037602 (aff 11)
KP192571.1 Lyophyllum cf semitale var. intermedium FR (aff 11)
AF357048.2 Lyophyllum sp. blackening Bellinger clade 11 EU
Lyophyllum pulvis-horrei isolate FR2014149 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence
KP192665.1 Lyophyllum pulvus-horrei blackening Bellinger clade 10 EU

0.03