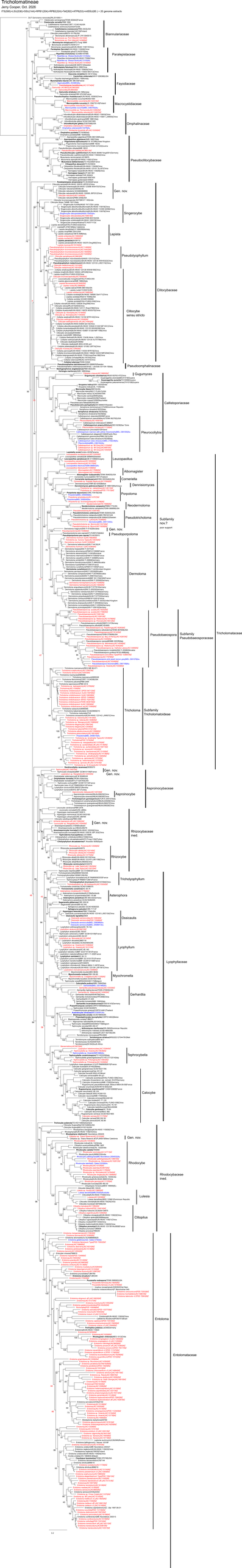

Tricholomatineae

Jerry Cooper, Oct. 2026

ITS(595)+LSU(536)+SSU(144)+RPB1(204)+RPB2(324)+Tef(262)+ATP6(53)+mtSSU(85) + 20 genome extracts

OUT Gerronema nemorale|ZRL2015063 1
Cleistocybe carneogrisea|TENN 063842|France
Cleistocybe vernalis|PBM 1856
Cathatelasma imperiale|CORT 11CA01A|USA
Cathatelasma ventricosum|225247|USA
Cathatelasma evanescens|PBM 2403|USA
Cathatelasma imperiale|140116|Finland
Clitocybe praecox|MICH:10178|USA
Bonomyces afrosinopicus|LIP LYK13040015
Bonomyces sp. Port Hills|JAC10215|NZ
Bonomyces sp. Port Hills|JAC14368|NZ
Bonomyces sinopicus|KATO Fungi 3689
Bonomyces arnoldii|TO AV051217
Bonomyces squamulosus|KUN-HKAS 115917|China
Biannulariaceae
Paralepista flaccida|KUN-HKAS 115936|China
Paralepista gilva|TO AV2010|Italy
Ripartites tricholoma|GCA964187995
Ripartites sp. Sharps Bush|JAC13105|Au
Ripartites tricholoma|KUN-HKAS 77956|China
Ripartites sp. Sharps Bush|JAC13105|Au
Ripartites sp. Sharps Bush|JAC13106|NZ
Notholepista subzonalis|GB 0087013|Sweden
Notholepista fistulosa|HMJU 288|China
Notholepista fistulosa|KUN-HKAS 105605|China
Notholepista fistulosa|KUN-HKAS 115935 MX312|China
Paralepistaceae
Giacomia mirabilis|GC 94141|Italy
Caulorhiza umbonata|HAY-F-008388|USA
Fayodia bisphaerigera|OW241-19|Norway
Myxomphalia maura|CBS 386.50|France
Agaricales|MEL 2533853|Au
Conchomyces bursiformis|JAC15734|NZ
Gamundia JAC9653|JAC9653|NZ
Gamundia|JAC9653|NZ
Gamundia striatula|JL45-18|Norway
Gamundia striatula|CBS 479.50|France
Fayodiaceae
Pseudoclitopilus rhodoleucus|KUN-HKAS 105563|China
Macrocystidia sp.|HKAS31464
Macrocystidia cucumis|JAC10251|NZ
Macrocystidia cucumis|JX.1294733 45|Finland
Macrocystidia reducta|JAC12311|NZ
Macrocystidia cucumis|MEL 2363792|Au
Macrocystidia sp. Pennycook|JAC12482|NZ
Macrocystidia reducta|JAC13287|NZ
Macrocystidiaceae
Infundibulicybe alkaliviolascens|KUN-HKAS 115933|China
Infundibulicybe alkaliviolascens|KUN-HKAS 115941 LJW655|China
Infundibulicybe geotropa|AMB 18861|Italy
Infundibulicybe gibba|GCA015501065
Infundibulicybe gibba|LCS0704B|USA
Omphalina colensoi|JAC11025|NZ
Omphalina colensoi|JAC14278|Au
Rimbachia bryophila aff.|JAC15359|NZ
Omphalina pyxidata|TO AV98|Italy
Omphalina pyxidata|AMB 19294|Italy
Omphalinaceae
Aspropaxillus giganteus|TENN 060129|Russia
Aspropaxillus giganteus|AMB 18857|Italy
Pogonoloma spinulosum|K M 107286|United Kingdom
Pogonoloma macrocephalum|AMB 18232
Pogonoloma macrocephalum|TENN 037026|Austria
Pseudoclitocybe obbata|AMB 18231
Pseudoclitocybe foetida|JAC9651|NZ
Pseudoclitocybe cyathiformis|KUN-HKAS 56499 Yang5001|Germany
Pseudoclitocybe cyathiformis|KUN-HKAS 115932|China
Musumecia vermicularis|LUG18975
Musumecia alpina|KUN-HKAS 115931|China
Musumecia bettlachensis|TO HG2284|France
Clitopaxillus alexandri|TO AV45634
Clitopaxillus fibulatus|KUN-HKAS 115928|China
Clitopaxillus fibulatus|KUN-HKAS 123141 Xu167|China
Harmajaea harperi|KUN-HKAS 115929|China
Harmajaea harperi|LIP 0401361
Harmajaea wellsiae|TUR 205933
Harmajaea guldeniae|H 6067455
Harmajaea guldeniae|O-64624
Pseudoclitocybaceae
Paraleipistopsis amoenolens|TO AV2004|France
Clitocybe epixyla|KUN-HKAS 105576 JSP251|China
Clitocybe tomentosa|KUN-HKAS 123098 WXH7537|China
Clitocybe nebularis|CBS362.65
Clitocybe nebularis|GCA900068955
Clitocybe nebularis|KUN-HKAS 105556 JSP231|China
clitocybe nebularis|JAC13456|NZ
Clitocybe nebularis|PBM 2259|USA
Gen. nov.
Clitocybe brunneocaperata|NOT|MCCT 165|India
Clitocybe ditopa ?|AMB 19311|Italy
Singerocybe humilis|HKAS 74717|Sri Lanka
Singerocybe alboinfundibuliformis|KUN-HKAS 115919|China
Singerocybe alboinfundibuliformis|KUN-HKAS 114309 QH96|China
Singerocybe alboinfundibuliformis|KUN-HKAS 115979|China
Singerocybe clitocyboides|HKAS 75453|Au
Singerocybe clitocyboides|JAC10691|NZ
Singerocybe adirondackensis|TENN 60310|USA
Singerocybe umbilicata|KUN-HKAS 105572|China
Singerocybe phaeophthalma|TO AV071112a
Singerocybe
Lepista densifolia|SYAU-FUNGI-022|China
Lepista|PL370619|New Caledonia
Lepista densifolia|O-F-289299|Norway
Lepista irina|PBM 2291|USA
Lepista caespitosa|19616 AMB|Italy
Lepista antipoda|JAC10694|NZ
Lepista murilai|JAC10066|NZ
Lepista panaeola|AH39110
Lepista panaeola|KUN-HKAS 105370 Ding360|China
Lepista luscina|JAC16155|NZ
Lepista
Pseudolyophyllum brunneoceraceum|JAC11468|NZ
Pseudolyophyllum brunneoceraceum|JAC10452|NZ
Pseudolyophyllum brunneoceraceum|JAC14648|NZ
Pseudolyophyllum brunneoceraceum|JAC15408|NZ
Clitocybe paraditopa|JAC9863|NZ
Pseudolyophyllum macrobasidium|KUN-HKAS 123131|China
Pseudolyophyllum macrobasidium|KUN-HKAS 123130 WXH5322|China
Pseudolyophyllum metachroum|KUN-HKAS 123133 LJW2174|China
Clitocybe metachroa|JAC13314|NZ
Clitocybe metachroa|JAC16916|NZ
Pseudolyophyllum
Collybia striaticeps|KUN-HKAS 123128 WXH6169|China
Collybia irina|KUN-HKAS 105553 JSP228|China
Lepista irina|SYAU-FUNGI-023|China
Clitocybe brunneocaperata|JAC10636|NZ
Leucocalocybe mongolica|SYAU-FUNGI-055
Lepista glaucocana|AMB 18862|Italy
Lepista fibrosissima|JAC9482|NZ
Lepista nuda|JAC16896|NZ
Lepista saeva|TENN 066100|USA
Lepista nuda|11CA041|USA
Lepista sublilacina|JAC16682|NZ
Collybia sordida|KUN-HKAS 106085 Ge4171|China
Lepista sordida|CRG014 TENN|USA
Collybia sordida| GCA061208565
Lepista sordida|SYAU-FUNGI-039|China
Collybia odora|KUN-HKAS 105638 Ding358|China
Clitocybe odora|ZRL20152003|China
Collybia piceata|KUN-HKAS 123117 Zhao2786|China
Collybia dryadicola|KUN-HKAS 116076 WGS375|China
Clitocybe sp. Klondyke|JAC10184|NZ
Clitocybe sp. Klondyke|JAC11350|NZ
Collybia asiatica|KUN-HKAS 114150 MYR143|China
Clitocybe wellingtonensis|JAC10546|NZ
Clitocybe wellingtonensis aff.|JAC14563|NZ
Collybia humida|KUN-HKAS 63649 Qin14|China
Collybia alboclitocyboides|KUN-HKAS 103549 513301MF1051|China
Collybia tomentostipes|KUN-HKAS 123125 WXH9228|China
Collybia phyllophila|KUN-HKAS 103697 513301MF1199|China
Clitocybe cerussata|AH44064
Lepista ricekii|AMB 18864|Italy
Collybia tibetica|KUN-HKAS 115436 Alinla 1-20|China
Collybia subtropica|KUN-HKAS 123120 XuTX199|China
Clitocybe dealbata|AH39082
Clitocybe dealbata|E-BSG-HC95.cp3
Collybia petaloidea|KUN-HKAS 101063 JSP74|China
Clitocybe rivulosa|JAC12993|NZ
Collybia pannosa|KUN-HKAS 114035 MYR19|China
Collybia brunneoumbilicata|KUN-HKAS 108402 532531MF0294|China
Collybia bisterigmata|KUN-HKAS 77538 KuanZhao188|China
Collybia cirrhata|HMJAU 44754|China
Collybia cirrhata|HMJAU 44757|China
Collybia tuberosa|TENN 53540
Clitocybe sensu stricto
Clitocybaceae
Pseudoomphalina kalchbrenneri|GB 0066625|Sweden
Pseudoomphalina umbrinopurpurascens|C. Lavorato 031104-19|Italy
Neohygrophorus angelesianus|PBM 482|USA
Hertzogia martiorum|AMB 18863|Italy
Pseudoomphalinaceae
Clitopilus crispus|JAC16665|NZ
Gugumyces columbarius|HKAS150763 HT|China
Guyanagarika anomala|MCA1519|Guyana
Guyanagarika aurantia|TH10068|Guyana
Guyanagarika pakaraimensis|TH10108|Guyana
Gugumyces
Anupama indica|AMH 10033|India
Anupama indica|CAL 1725|India
Macrocybe titans|58974|USA
Macrocybe titans|59217 FLAS-F|USA
Macrocybe indica| GCA030407095
Macrocybe sardoa|29083a|Italy
Macrocybe crassa|224256|Thailand
Macrocybe crassa|10295|Seychelles
Pseudolaccaria fellea|006240|USA
Pseudolaccaria pachyphylla|GB 0066637|Sweden
Xerophorus dominicanus|127428|Dominican Republic
Xerophorus donadinii|18222|Italy
Xerophorus olivascens|18226|Italy
Xerophorus olivascens|18229|Italy
Callistosporium elaeodes|58268|France
Callistosporium pseudofelleum|TENN 062782|USA
Pleurocollybia|JAC14597|NZ
Callistosporium imbricatum|TJB9847
Callistosporium praemultifolium|DED 8238|Sao Tome
Pleurocollybia cremea|JAC11726|NZ
Callistosporium pinicola|0510|Poland
Callistosporium marroon with yellow rhizomorphs|MEL 2381055|Au
Callistosporium elegans|013382|Puerto Rico
Callistosporium graminicolor|PBM 2341|USA
Callistosporium luteo-olivaceum|18228|Italy
Callistosporium luteo-olivaceum|MEL 2192238|Au
Pleurocollybia|MEL 2363162|Au
Callistosporium sp. Mt Grey|JAC11234|NZ
Callistosporium sp. Mt Grey|JAC9997|NZ
Callistosporium sp. Mt Grey|JAC10505|NZ
Pleurocollybia
Callistoporiaceae
Lepistella ocula|Ovrebo 4035|Panama
Leucopaxillus eucalyptorum|JAC12450|NZ
Leucopaxillus cerealis|GB 0068845|Sweden
Leucopaxillus paradoxus|GB 0110968|Hungary
Leucopaxillus paradoxus|JAC16068|NZ
Leucopaxillus lilacinus|JAC16170|NZ
Leucopaxillus lilacinus|TENN 066653|Au
Leucopaxillus lilacinus|JAC11096|NZ
Leucopaxillus
Albomagister|JAC17696|NZ
Albomagister|JAC15456|NZ
Albomagister subaustralis|TENN 064620|USA
Albomagister
Corneriella humicola|DED-7871|Thailand
Corneriella bambusarum|NYBG DED5462|USA
Corneriella sp. Eskdale Reserve|JAC15369|NZ
Corneriella
Dennisiomyces|CFMR BZ-4245|Belize
Dennisiomyces glabrescentipes|K M 188910|Martinique
Dennisiomyces
Porpoloma sp. caespitosa|JAC12611|NZ
Porpoloma sp. caespitosa|PDD 77513|NZ
Porpoloma sejunctum|CONC F0416|Chile
Porpoloma|MEL 2458306|Au
Porpoloma amyloideum|JAC14757|NZ
Porpoloma|MEL 2458345|Au
Porpoloma sp. brunneogrisea|JAC12786|NZ
Porpoloma
Neodermoloma|OTA 73580|NZ
Neodermoloma campestre|PMB4177|USA
Neodermoloma campestre|TENN 066899|USA
Neodermoloma
Pseudotricholoma|JAC15367|NZ
Pseudotricholoma umbrosum|TENN 052643|USA
Pseudotricholoma metapodium|ABS PM1021|UK
Pseudotricholoma metapodium|GB 0066422|Sweden
Pseudotricholoma sp. Lyford|JAC15368|NZ
Dermoloma|MEL 2381134|Au
Pseudotricholoma sp. Munro|JAC15373|NZ
Pseudotricholoma sp. Munro|JAC15058|NZ
Pseudotricholoma
Dermoloma magicum|SAV F-4142|Slovakia
Pseudoporpoloma|JAC15366|NZ
Gen. nov.
Pseudoporpoloma pes-caprae|CF-PORP27080802
Pseudoporpoloma pes-caprae|TO-AV20915
Pseudoporpoloma
Dermoloma murinum 2|JAC16829|NZ
Tricholoma sp. hurunui Type|JAC10035|NZ
Dermoloma murinum 3|JAC14289|NZ
Dermoloma bellerianum|SAV F-4416|UK
Dermoloma murinum 1|JAC15365|NZ
Dermoloma fusipes|SAV F-4377|UK
Dermoloma atrocinereum|PAM14110908|France
Dermoloma alexandri|SAV F-4303|Romania
Dermoloma intermedium|PAM14110905|France
Dermoloma carpathicum|SAV F-4268|Romania
Dermoloma simile|SAV F-20858|Germany
Dermoloma fuscobrunneum|SAV F-3860|Slovakia
Dermoloma huartii|PAM14110907|France
Dermoloma cuneifolium|PAM14111900|France
Dermoloma cuneifolium|SAV F-4435|United Kingdom
Dermoloma parvisporum|SAV F-20229|Slovakia
Dermoloma compactum|SAV F-20794|Slovakia
Dermoloma josserandii|SAV F-20907|Germany
Dermoloma pseudojosserandii|BBF GC17092306|France
Dermoloma obscurum|SAV F-20549|Germany
Dermoloma hemisphaericum|JAC14290|NZ
Dermoloma hemisphaericum|JAC15694|NZ
Dermoloma angustisporum|GLM-F137761|Germany
Dermoloma applanatum|SAV F-20525|Germany
Dermoloma rostratum|GLM-F137760|Germany
Dermoloma vestigium|SAV F-20505|Germany
Dermoloma griseobasale|GLM-F137753|Germany
Dermoloma confusum|PAM16110301|France
Dermoloma pseudocuneifolium|SAV F-4420|United Kingdom
Dermoloma phaeopodium|SAV F-20548|Germany
Dermoloma curvicystidiatum|SAV F-20504|Germany
Dermoloma pruinosipes|SAV F-20914|Germany
Dermoloma
Subfamily nov.?
poor support
Pseudobaeospora sp. purple|JAC16202|NZ
Pseudobaeospora sp. purple|JAC17680|NZ
Pseudobaeospora|JAC15901|NZ
Pseudobaeospora|JAC15591|NZ
Pseudobaeospora sp. Ballance|JAC15798|NZ
Pseudobaeospora sp. Pororari|JAC16512|NZ
Pseudobaeospora pillodii|258872 O-F|Norway
Pseudobaeospora pillodii|MCVE4905
Pseudobaeospora sp. Papatonga|JAC16283|NZ
Pseudobaeospora celluloderma|TENN 067659|USA
Pseudobaeospora|JAC16142|NZ
Pseudobaeospora|TENN 070699|USA
Pseudobaeospora sp. Bay of Plenty|JAC16287|NZ
Pseudobaeospora|JAC15349|NZ
Pseudobaeospora cyanea|M3986 GDOR|Italy
Pseudobaeospora sp. Manawatu|JAC14558|NZ
Pseudobaeospora sp. Waitomo|JAC16352|NZ
Pseudobaeospora sp. Kaihoka Lakes|JAC13469|NZ
Pseudobaeospora mutabilis|SAV F-20580|Slovakia
Pseudobaeospora pyrifera|18730 AMB|Italy
Pseudobaeospora aciculifera Type|PDD 103697|NZ
Pseudobaeospora|JAC17878|NZ
Pseudobaeospora pink peach lemon grey|MEL 2381078|Au
Pseudobaeospora|JAC16348|NZ
Pseudobaeospora bloomers|MEL 2367169|Au
Pseudobaeospora sp. Howick|JAC15308|NZ
Pseudobaeospora
Subfamily Pseudobaeosporaceae
Tricholoma inamoenum|REG MB 96-071
Tricholoma sculpturatum|JAC12997|NZ
Tricholoma terreum|JAC10543|NZ
Tricholoma myomyces|KMS589
Tricholoma inamoenum|KMS249
Tricholoma flavovirens|CORT 11CA038|USA
Tricholoma palustre|PBM 2494
Tricholoma saponaceum|PBM 2514
Tricholoma sp. leptosperm|JAC12785|NZ
Tricholoma|JAC11056|NZ
Tricholoma viridiolivaceum 2|PDD 94712|NZ
Tricholoma viridiolivaceum 5|JAC15976|NZ
Tricholoma viridiolivaceum 1|JAC16659|NZ
Tricholoma viridiolivaceum 3|PDD 72488|NZ
Tricholoma viridiolivaceum 4|PDD 75241|NZ
Tricholoma viridiolivaceum|TENN 063670|NZ
Tricholoma viridiolivaceum 4|JAC10859|NZ
Tricholoma viridiolivaceum ss|JAC10469|NZ
Tricholoma subaureum|KMS590
Tricholoma bakamatsutake|GCA029959215
Tricholoma matsutake|Tn9
Tricholoma sinoacerbum|KUN-HKAS 123142 LJW907|China
Tricholoma sp. beeverae|JAC11814|NZ
Tricholoma sp. tokena|JAC14080|NZ
Tricholoma sp. Manapouri|JAC15969|NZ
Tricholoma elegans|JAC10957|NZ
Tricholoma elegans|JAC12536|NZ
Tricholoma batschii|PDD 81521|NZ
Tricholoma albobrunneum|JAC12998|NZ
Tricholoma pessundatum|JAC16016|NZ
Porpoloma|MEL 2458315|Au
Tricholoma|PDD 72783|NZ
Tricholoma sp. tenebripila Type|JAC12538|NZ
Tricholoma sp. wangapeka|JAC13755|NZ
Tricholoma sp. aurilamellata aff.|JAC14136|NZ
Tricholoma sp. aurilamellata|JAC15671|NZ
Tricholoma sp. koura|JAC12532|NZ
Tricholoma sp. tasmanense|JAC13100|NZ
Tricholoma sp. whakapapa|JAC14138|NZ
Tricholoma sp. pohutihuti|JAC13485|NZ
Tricholoma sp. apricota|JAC13753|NZ
Tricholoma sp. nelsoniana|JAC13752|NZ
Tricholoma sp. apricota aff.|JAC12791|NZ
Tricholoma sp. St Arnaud|JAC13754|NZ
Tricholoma
Subfamily Tricholomatoideae
Tricholomataceae
Dendrocollybia racemosa|DEB5575
Tephrocybe|JAC15407|NZ
Tephrocybe striaepilea|BBF GC98101106|France
Lyophyllum sp. Rangitaiki|JAC12044|NZ
Gen. nov.
Gen. nov.
Omphaliaster asterosporus|K M 95480|UK
Omphaliaster borealis|TROM 43|Norway
Omphaliaster borealis|WTU-F-024783|USA
Tephrocybe confusa|BBF GC0810114|France
Tephrocybe ozes cf.|LIP PAM02082412|France
Lyophyllum turcicum|GB 0065321|Norway
Lyophyllum turcicum|KATO 2971|Turkey
Asproinocybe daleyae|JAC14074|NZ
Asproinocybe sinensis|HMJAU59025|China
Asproinocybe sinensis|HMJAU59026|China
Asproinocybe
Tricholosporum goniospermum|TUR-A 209107|Italy
Tricholosporum porphyrophyllum|HMJAU24949|China
Tricholosporum guangxiense|HMJAU59027|China
Tricholosporum guangxiense|HMJAU59028|China
Asproinocybaceae
Leucocybe candicans|PBM 2476
Leucocybe connata|DUKE-JM90c
Hypsizygus marmoreus|KF192813
Hypsizygus marmoreus| GCA013433165
Hypsizygus ulmarius|DUKE-JM/HW
Clitocybe subditopoda|PBM 2489
Arrhenia baeospora aff.|JAC15992|NZ
'Leucocybe' sp. Rangitaiki|JAC12046|NZ
Gen. nov.
Atractosporocybe|GG 21509|Svalbard
Atractosporocybe inornata|KUN-HKAS 105559|China
Atractosporocybe inornata|KUN-HKAS 105578 JSP 253|China
Tephrophora fuscopallens|LUG18989
Clitolyophyllum umbilicatum|HMJU1558|China
Clitolyophyllum akcaabatense|KATO Fungi 3184|Turkey
Clitolyophyllum akcaabatense|P. Alvarado 5836|Spain
Rhizocybe sp. Pureora|JAC12008|NZ
Rhizocybe pruinosa|AH44073
Rhizocybe albida|JAC10314|NZ
Rhizocybe albida|JAC10349|NZ
Rhizocybe albida|JAC14770|NZ
Rhizocybe alba|KUN-HKAS 55110|China
Rhizocybe alba|KUN-HKAS 123143 LJW1198|China
Rhizocybe alba|HMJAU36000|China
Rhizocybe vermicularis|AH44078
Rhizocybe sp. Lake Taylor|JAC12629|NZ
Rhizocybe sp. Lake Taylor|JAC15572|NZ
Rhizocybe
Rhizocybaceae ined.
Tephrocybe mephitica|BBF GC13100603|France
Tricholyophyllum|iNat106560129|USA
Tricholyophyllum|iNat99656740|USA
Lyophyllum konradianum|LIP PAM06092203|France
Tephrocybe|LIP PAM04112801|France
Tricholyophyllum brunneum|HKAS107494|China
Tricholyophyllum sp. Mt Holdsworth|JAC10304|NZ
Tricholyophyllum
Tricholoma constricta| GCA013368375
Tricholoma constricta|HC 84.75
Asterophora mirabilis|JAC17760|NZ
Asterophora lycoperdoides|AL01|Netherlands
Asterophora lycoperdoides|CBS 170.86
Asterophora parasitica|CBS 683.82|Germany
Asterophora parasitica|GCA018282005
Asterophora
Sagaranella gibberosa|CBS 328.50
Sagaranella tylicolor|BSI 92.245
Sphagnurus paluster| GCA018228025
Sphagnurus paluster|CBS 717.87
Hypsizygus tessulatus|PBM 1704|USA
Ossicaulis yunnanensis|KUN-HKAS 123140 LJW2134|China
Ossicaulis lignatilis|D604
Ossicaulis semiocculta|JAC10063|NZ
Ossicaulis semiocculta|PDD 72596|NZ
Ossicaulis semiocculta|MEL 2380966|Au
Ossicaulis semiocculta|MEL 2408941|Au
Ossicaulis
Lyophyllum anthracophilum|HC 79.132
Lyophyllum atratum|JAC9901|NZ
Lyophyllum atratum|CBS 709.87
Tephrocybe carbonaria cf.|BBF GC08103106|France
Lyophyllum ambustum|CBS 452.87
Lyophyllum sp. Monowai|JAC16134|NZ
Lyophyllum decastes|JM87/16
Lyophyllum decastes| GCA025854295
Lyophyllum sp. Howick|JAC15389|NZ
Lyophyllum sp. Howick|JAC16131|NZ
Lyophyllum caerulescens|HC 80.140
Lyophyllum helvella cf.|BBF GC07101301|France
Lyophyllum maleolens|Bidaud AB11-11-328|France
Lyophyllum pulvis-horrei|BBF GC10101701|France
Lyophyllum semitale|HC 85.13
Lyophyllum transforme|BBF GC08101108|France
Lyophyllum sykosporum|IFO30978
Lyophyllum infumatum|A. Bidaud AB04-11-497|France
Lyophyllum infumatum|KUN-HKAS 123139 LJW1561|China
Lyophyllum moncalvoanum|JAC12088|NZ
Lyophyllum
Myochromella boudieri|BSI 96/84
Myochromella inolens|CBS 330.85
Myochromella sp. Craigieburn|JAC11326|NZ
Myochromella boudieri| GCA018221655
Tephrocybe ozes|BR5020024461170|Belgium
Myochromella
Calocybella pudica|AMB 15994|Italy
Gerhardtia|MEL 2321980|Au
Gerhardtia pseudosaponacea|JAC12535|NZ
Gerhardtia sp. Waipoua|JAC14560|NZ
Gerhardtia highlandensis|TENN 070609|USA
Gerhardtia foliicola|WXH8758|China
Gerhardtia tricholomoides|YPC948|China
Gerhardtia|HC 01.025
Gerhardtia borealis|AMB 15993|Italy
Gerhardtia incarnatobrunnea|B700016143|Germany
Gerhardtia
Praearthromyces corneri|CORT014856|Malaysia
Tephrocybe| GCA018220975
Praearthromyces griseus|CORT014481|Thailand
Australocybe olivacea|BRI1030081|Au
Blastosporella zonata| GCA018856295
Phaeotephrocybe leucophylla|CORT014602|Belize
Blastosporella zonata|TJB8371
Nigrocarnea radicata|HNL501043|Laos
Tephrocybe oldae|BR5020029402116|Belgium
Tephrocybe rancida|CBS 204.47
Arthromyces claviformis|DR-2983|Dominican Republic
Arthromyces matolae| GCA018855395
Arthromyces matolae|FLAS F-62734|USA
Termitomyces microcarpus|PRU3900
Termitomyces striatus|BR5020212704478V|Mali
Termitomyces subhyalinus|BSI sp.1
Termitomyces| GCA020091625
Termitomyces|ZA164|South Africa
Marasmiellus|JAC9970|NZ
Lyophyllum hebelomoides|JAC15384|NZ
Tephrocybella sp. Howick|JAC14638|NZ
Tephrocybella sp. Howick|SMF2986|Au
Tephrocybella constrictospora|TO HG3329|Italy
Tephrocybella griseonigrescens|TO HG 21112014|Italy
Tephrocybella sp. Pohangina|JAC14803|NZ
Tephrocybella sp. Pohangina|JAC15356|NZ
Lyophyllum maas-geesteranii cf.|LIP PAM06082615|France
Tephrocybella
Calocybe buxea|EB 20140228|Italy
Calocybe gangraenosa| GCA018221785
Calocybe gangraenosa|Hae 251.97
Calocybe favrei|IE-BSG-HC96cp4
Calocybe ochracea|BSI 94.cp1
Calocybe aurantiaca|SYAU FUNGI 006|China
Calocybe chrysenteron var. cerina|L 05-87|Germany
Calocybe chrysenteron|AMB 17092|Germany
Rugosomyces pseudoflammula|A. Bidaud AB04-09-59|France
Calocybe onychina|CAON-RH19-563|USA
Rugosomyces onychinus|BBF CH09100906|France
Calocybe naucoria|HC 80.103
Calocybe fallax|IE-BSG-HC80/103
Calocybe naucoria|AMB 17094|Italy
Calocybe erminea|HMJU00100
Calocybe ionides|HC 77.133
Calocybe convexa|SYAU FUNGI 008|China
Rugosomyces obscurissimus|HC 79.181
Calocybe badiofloccosa|HMJU00098
Calocybe gambosa|HC 78.64
Calocybe decurrens|HMJU 382
Rugosomyces carneus| GCA018221805
Calocybe carnea|JAC11170|NZ
Calocybe carnea|CBS 552.50
Calocybe persicolor|HC 80.99
Calocybe
Lyophyllaceae
Trichocybe puberula|TO-HG1148|Switzerland
Clitocybe thujana|iNat100154665|USA
Clitocybe thujana|MICH10215|USA
Rhodophana stangliana|KUN-HKAS 115926|China
Rhodophana|KUN-HKAS 115927|China
Rhodophana nitellina|ME Noordeloos 200435
Clitopilus sp. Totara Reserve|JAC15122|NZ
Clitopilus sp. Totara Reserve aff.|PL940619|New Caledonia
Gen. nov.
Rhodocybe|JAC14538|NZ
Rhodocybe indica|CAL 1323|India
Clitopilus aureicystidiatus|PBM 1902
Rhodocybe luteobrunnea|CAL 1322|India
Rhodocybe caelata|TB5890
Rhodocybe conchata|JAC14771|NZ
Rhodocybe paurii|JM99/233|India
Rhodocybe pallidogrisea|ME Noordeloos 2004032|Au
Rhodocybe pallidogrisea|JAC10897|NZ
Rhodocybe sp. Rotoatua|JAC16261|NZ
Rhodocybe lateritia|G. Gates E2036|Au
Rhodocybe|JAC15726|NZ
Rhodocybe piperita|JAC8970|NZ
Rhodocybe piperita|JAC11795|NZ
Rhodocybe sp. Rimutaka|JAC14764|NZ
Rhodocybe dingleyae|JAC15698|NZ
Rhodocybe griseoaurantia|CAL 1324|India
Rhodocybe|KUN-HKAS 89081|China
Rhodocybe gemina|JAC11725|NZ
Rhodocybe truncata|CBS 482.50
Rhodocybe
Clitopilopsis hirneolus|MEN 199956|Eu
Clitocella fallax|CBS 129.63
Lulesia sp. Huntly|JAC13865|NZ
Lulesia densifolia|MK278305|Australia
Clitocella orientalis|KUN-HKAS 77394|China
Lulesia|JAC14039|NZ
Lulesia densifolia|JBSD 125861|Dominican Republic
Clitocella orientalis|KUN-HKAS 75524|China
Clitocella mundula|TJB7599|USA
Lulesia
Clitopilus kamaka|JAC11684|NZ
Clitopilus hobsonii|PDD 104614|NZ
Clitopilus hobsonii|GCA054134875
Clitopilus argentinus|JAC12560|NZ
Clitopilus sinoapalus|KUN-HKAS 115922|China
Clitopilus apalus|M536|Malaysia
Clitopilus rugosiceps|KUN-HKAS 115921|China
Clitopilus nivalis|XHW11334|China
Clitopilus fusiformis|KUN-HKAS 115920|China
Clitopilus prunulus|KUN-HKAS 123138 Wu2858|France
Clitopilus prunulus|TJB6838
Clitopilus prunulus|TB8229
Clitopilus
Rhodocybaceae ined.
Entoloma manganaense|JAC17063|NZ
Entoloma kermandii|JAC16369|NZ
Entoloma atromadidum| GCA986885625
Entoloma gelatinosum|G. Gates E792|Au
Entoloma fabulosum Type|PDD 72832|NZ
Entoloma|JAC15868|NZ
Entoloma aberrans|JAC16210|NZ
Entoloma perbloxamii|JAC15139|NZ
Entoloma baronii|JAC14554|NZ
Entocybe vinacea|TB8870
Entoloma haastii|PDD 72499|NZ
Entoloma|JAC16500|NZ
Entoloma gracilior|JAC15140|NZ
Entoloma gracilior|JAC9993|NZ
Entoloma crinitum|JAC15138|NZ
Entoloma inusitatum|JAC9284|NZ
Entoloma bisporigerum|JAC15155|NZ
Entoloma bryorum|JAC12987|NZ
Entoloma prunuloides|TJB4765
Entoloma sinuatum|TJB5349
Entoloma|JAC17093|NZ
Pouzarella nodospora|TENN 068582|USA
Pouzarella farinosa|JAC15626|NZ
Pouzarella farinosa cf.|JAC14765|NZ
Inopilus inocephalus|LE262922|Viet Nam
Entoloma violaceovillosum|P. Manomohan 645
Entoloma canoconicum|PDD 72533|NZ
Entoloma hochstetteri|JAC15867|NZ
Entoloma latericolor cf.|PDD 72843|NZ
Entoloma strigosum aff.|JAC16835|NZ
Entoloma|JAC15127|NZ
Entoloma inventum|JAC14552|NZ
Entoloma gasteromycetoides|PDD 65292|NZ
Richoniella|PDD 105098|NZ
Entoloma sericellum|PDD 103775|NZ
Entoloma niveum|JAC16554|NZ
Entoloma niveum cf.|JAC15157|NZ
Entoloma|KUN-HKAS 115924|China
Calliderma fibulatum|SP393751|Brazil
Entoloma captiosum|PDD 72516|NZ
Entoloma porphyrescens|JAC15909|NZ
Entoloma vulsum cf.|JAC15949|NZ
Trichopilus jubatus|Lueck9|Germany
Entoloma|KUN-HKAS 115924
Entoloma|JAC9299|NZ
Entoloma|JAC16358|NZ
Rhodogaster chilensis|MES-1012|Chile
Entoloma congregatum cf.|JAC10858|NZ
Entoloma congregatum cf.|JAC11250|NZ
Entoloma nothofagi|JAC9609|NZ
Entoloma procerum aff.|JAC10360|NZ
Entoloma procerum|PDD 75517|NZ
Entoloma squamiferum cf.|PDD 117470|NZ
Entoloma squamiferum cf.|JAC17465|NZ
Entoloma brunneolilacinum|JAC16206|NZ
Entoloma squamiferum|PDD 72722|NZ
Entoloma graphitipes|JAC10590|NZ
Entoloma sp. Murchison|JAC14304|NZ
Entoloma peralbidum|OTA61926|NZ
Entoloma peralbidum|PDD 72829|NZ
Entoloma|JAC16316|NZ
Entoloma chloroxanthum cf.|JAC14664|NZ
Entoloma strictum|JAC15611|NZ
Entoloma sp. Raoul|JAC16667|NZ
Entoloma atrellum|JAC16284|NZ
Entoloma sp. Keith George|JAC16810|NZ
Entoloma|JAC15146|NZ
Entoloma|OTA61944|NZ
Entoloma|JAC12595|NZ
Entoloma melanocephalum|JAC15129|NZ
Entoloma aspreloides|JAC12077|NZ
Entoloma phaeomarginatum|JAC16313|NZ
Entoloma persimile|JAC15126|NZ
Entoloma duplocoloratum|PDD 72842|NZ
Entoloma duplocoloratum aff.|JAC14267|NZ
Entoloma serrulatum|VHAs0102
Entoloma|JAC15148|NZ
Entoloma|JAC14555|NZ
Entoloma|JAC14538|NZ
Entoloma|JAC15130|NZ
Entoloma consanguineum|PDD 112345|NZ
Entoloma sp. Howick|JAC10194|NZ
Entoloma sp. Howick|JAC15778|NZ
Entoloma|JAC15695|NZ
Alboleptonia stylophora|AST84
Entoloma glaucoroseum|JAC15761|NZ
Entoloma viridomarginatum|JAC16209|NZ
Entoloma|JAC13328|NZ
Entoloma|JAC13151|NZ
Entoloma endotum cf.|JAC14551|NZ
Entoloma uliginicola|JAC9431|NZ
Entoloma sp. Sanson|JAC14659|NZ
Entoloma sp. Sanson|JAC15719|NZ
Leptonia euchroum|LE262995|Russia
Entoloma tjallingiorum|J. Vauras 14318F
Entoloma minutoincanum|JAC14797|NZ
Entoloma undatum|ME Noordeloos 200327
Entoloma neglectum|KUN-HKAS 115923|China
Paraleptonia neglecta|158/05|Finland
Entoloma undatum|KUN-HKAS 115925|China
Eccilia undata|JVG 1060830-8|Spain
Claudopus byssisedus|TENN 070748|USA
Entoloma sericeonitidum|TB7144
Entoloma strictius|M96/10
Entoloma cuneatum|JAC11739|NZ
Entoloma strictius|JM96/10
Entoloma aromaticum|JAC15154|NZ
Entoloma parasericeum cf.|JAC12836|NZ
Entoloma sulphureum|JAC10865|NZ
Entoloma elegantissimum Type|PDD 72841|NZ
Entoloma parasericeum|JAC11440|NZ
Entoloma blandiodorum aff.|JAC15131|NZ
Entoloma|JAC16073|NZ
Entoloma rancidulum|JAC16108|NZ
Entoloma readiae|JAC10180|NZ
Entoloma sericeum|JAC9850|NZ
Entoloma sericeum|VHAs03/02
Entoloma sp. Cross Creek|JAC11070|NZ
Entoloma sp. Mt Lees|JAC15145|NZ
Entoloma tristificum cf.|JAC13825|NZ
Entoloma|JAC11050|NZ
Entoloma melleum cf.|JAC16821|NZ
Entoloma melleum cf.|JAC15149|NZ
Entoloma cephalotrichum|C. Ulje 1997-08-01
Entoloma cucurbita|PDD 112156|NZ
Entoloma distinctum|JAC15972|NZ
Entoloma perzonatum|JAC16198|NZ
Entoloma conferendum|ME Noordeloos 200313
Entoloma conferendum|JAC16199|NZ
Entoloma nothofagi|PDD 72574|NZ
Entoloma translucidum aff.|JAC16211|NZ
Entoloma translucidum|JAC9367|NZ
Entoloma translucidum|JAC14331|NZ
Entoloma
Entolomataceae
0.2