

1976

## Wood-rotting Basidiomycetes--Itasca State Park Annotated List

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### Recommended Citation

Gilbertson, R. L., & Lombard, F. F. (1976). Wood-rotting Basidiomycetes--Itasca State Park Annotated List. *Journal of the Minnesota Academy of Science*, Vol. 42 No.2, 25-31.  
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# Wood-rotting Basidiomycetes -- Itasca State Park Annotated List

ABSTRACT: - This study reports 216 species of wood-rotting Basidiomycetes from Lake Itasca State Park in Minnesota. Of these, two species, *Gloeocystidiellum heimii* Boid. and *Phanerochaete cumulodentata* (Nikol) Parm., are reported for the first time from North America.

ROBERT L. GILBERTSON\* AND FRANCES F. LOMBARD\*\*

In August, 1970, the authors collected wood-rotting fungi in Lake Itasca State Park in Clearwater and Hubbard counties, Minnesota, in conjunction with the Lake Itasca Forestry and Biological Station of the University of Minnesota. Although weather conditions were dry and unfavorable for optimal development of wood-rotting fungi, 591 collections were made, representing 216 species.

Collections of fungi were made from the following tree species; some collections were from substrata identified only as "conifer" or "hardwood":

Conifers: *Abies balsamea* (L.) Mill., balsam fir  
*Picea glauca* (Moench) Voss, white spruce  
*Picea mariana* (Mill.) B.S.P., black spruce  
*Picea* sp., spruce  
*Pinus resinosa* Ait., red pine  
*Pinus strobus* L., eastern white pine  
*Pinus* sp., pine  
*Thuja occidentalis* L., northern white-cedar

Hardwoods: *Acer saccharum* Marsh., sugar maple  
*Acer* sp., maple  
*Alnus* sp., alder  
*Betula papyrifera* Marsh., paper birch  
*Fraxinus americana* L., white ash  
*Fraxinus nigra* Marsh., black ash  
*Ostrya virginiana* (Mill.) K. Koch, eastern hophornbeam  
*Populus balsamifera* L., balsam poplar  
*Populus tremuloides* Michx., quaking aspen  
*Populus* sp., poplar  
*Prunus virginiana* L., common chokecherry  
*Quercus rubra* L., red oak  
*Quercus* sp., oak  
*Salix* sp., willow  
*Tilia americana* L., American basswood  
*Ulmus americana* L., American elm

The Lake Itasca region is a potentially rich locality for wood-rotting fungi because of the large number of hardwood and coniferous tree species in the area and the diversity of ecological habitats. For details of vegetative cover types in Itasca State Park, see Hansen et al. (1974). Lake Itasca is near the transition zone between the eastern hardwood forests and the prairie and may be near the westernmost limit of some species of fungi. Lists of fungi including records from the Lake Itasca region have been published by Preston and Dodsall (1955) and Weaver and Shaffer (1969, 1972). Publications reporting lignicolous fungi from other areas in Minnesota include those of Arthur et al. (1887), Murrill (1919), Stork (1943), and Sylvia (1938).

The number of collections cited is not indicative of the prevalence of a given species in the area, as some common species were collected only once for the record.

Specimens are deposited in the herbaria of the University of Arizona at Tucson and the Center for Forest Mycology Research (CFMR) at the U.S. Forest Products Laboratory, Madison, Wisconsin. Duplicates of most of the Gilbertson collections are in the National Fungus Collections at Beltsville, Maryland. Gilbertson collections are designated as RLG, and FP is the designation for the herbarium accession numbering system used by CFMR. Cultures of many of the fungi are in the Reference Culture Collections of CFMR.

## ACKNOWLEDGMENTS

This work was made possible by the cooperation of Dr. David W. French, at whose invitation the authors were able to study the fungi of the Lake Itasca region. The University of Minnesota provided financial support and use of laboratory and field facilities at the Lake Itasca Forestry and Biological Station. The assistance of Mr. William F. Vance is also gratefully acknowledged.

Drs. Harold H. Burdsall, Jr., Michael J. Larsen, Paul L. Lentz, and Josiah L. Lowe assisted in identification of some of the specimens.

## ANNOTATED LIST

The arrangement is alphabetical by orders, families, genera, and species.

## APHYLLOPHORALES

### Auriscalpiaceae

*Gloeodontia columbiensis* Burt ex Burds. et Lombard  
Associated with a white rot; on quaking aspen, FP

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- 100754.
- Coniophoraceae**  
*Coniophorella olivacea* (Fr.) Karst.  
 Associated with a brown rot; on spruce, RLG 9553.
- Clavariaceae**  
*Clavicornia pyxidata* (Pers. ex Fr.) Doty  
 Associated with a white rot; on quaking aspen, RLG 9508, 9714.
- Corticaceae**  
*Aleurodiscus amorphus* (Pers. ex Fr.) J. Schroet. in Cohn  
 Associated with a white rot of dead branches; on balsam fir, RLG 9770.  
*Aleurodiscus canadensis* Skolko  
 Associated with a white rot; on conifer, FP 100797.  
*Aleurodiscus lividocoeruleus* (Karst.) Lemke  
 Associated with a white rot; on conifer, FP 100611; on hardwood, FP 100753.  
*Amphinema byssoides* (Pers. ex Fr.) J. Erikss.  
 Associated with a white rot; on paper birch, RLG 9788.  
*Amylocorticium subincarnata* (Pk.) Pouz.  
 Associated with a white rot; on white spruce, RLG 9552.  
*Athelia borealis* (Rom.) Parm.  
 Associated with a white rot; on pine, RLG 9428; on quaking aspen, RLG 9724.  
*Athelia coprophila* (Wakef.) Jülich  
 Associated with a white rot; on maple, FP 100735; on quaking aspen, FP 100706.  
*Athelia mutabilis* (Bres.) Donk  
 Associated with a white rot; on hardwood, FP 100721.  
*Botryobasidium pruinatum* (Bres.) J. Erikss.  
 Associated with a white rot; on white spruce, RLG 9718; on conifer, FP 100922; on quaking aspen, RLG 9723; on hardwood, FP 100803.  
*Botryobasidium vagum* (Berk. et Curt.) Rogers  
 Associated with a white rot; on quaking aspen, RLG 9659; on hardwood, FP 100526, 100711.  
*Byssomerulius corium* (Fr.) Parm.  
 Associated with a white rot; on black spruce, RLG 9444.  
*Confertobasidium olivaceo-album* (Bourd. et Galz.) Jülich  
 Associated with a white rot; on conifer, FP 100840; on quaking aspen, RLG 9790; on hardwood, FP 100829.  
*Cystostereum murrayi* (Berk. et Curt.) Pouz.  
 Associated with a white rot; on black ash, RLG 9589; on eastern hophornbeam, RLG 9673; on paper birch, RLG 9637.  
*Dendrothele pachysterigmatum* (Jacks. et Lemke) Lemke  
 Associated rot unknown, fruiting on bark tissue; on northern white-cedar, FP 100594.  
*Dentocorticium sulphurellum* (Pk.) M. J. Larsen et Gilbertson  
 Associated with a white rot; on American basswood, FP 100778.  
*Gloeocystidiellum heimii* Boid. First records for North America.  
 Associated with a white rot; on conifer, FP 100860; on oak, FP 100808; on quaking aspen, FP 100743; on hardwood, FP 100802, 100812.
- Gloeocystidiellum leucoxanthum* (Bres.) Boid. Associated with a white rot; on hardwood, FP 100713, 100737, 100745.  
*Gloeocystidiellum leucoxanthum* (Bres.) Boid. Associated with a white rot; on hardwood, FP 100713, 100737, 100745.  
*Gloeocystidiellum ochraceum* (Fr.) Donk  
 Associated with a white rot; on quaking aspen, FP 100953.  
*Gloeocystidiellum porosum* (Berk. et Curt.) Donk  
 Associated with a white rot; on American basswood, RLG 9771; on balsam poplar, RLG 9755; on quaking aspen, RLG 9715.  
*Hyphoderma argillaceum* (Bres.) Donk  
 Associated with a white rot; on *Poria* sp. on maple, FP 100700; on quaking aspen, RLG 9712; on hardwood, FP 100809.  
*Hyphoderma clavigerum* (Bres.) Donk  
 Associated with a white rot; on paper birch, FP 100855.  
*Hyphoderma guttuliferum* (Karst.) Donk  
 Associated with a white rot; on hardwood, FP 100724, 100798.  
*Hyphoderma litschaueri* (Burt) J. Erikss. et Strid  
 Associated with a white rot; on hardwood, FP 100625.  
*Hyphoderma medioburiense* (Burt) Donk  
 Associated with a white rot; on quaking aspen, RLG 9476.  
*Hyphoderma pilosum* (Burt) Gilbertson et Budington  
 Associated with a white rot; on balsam fir, RLG 9815; on hardwood, FP 100736.  
*Hyphoderma polonense* (Bres.) Donk  
 Associated with a white rot; on balsam fir, RLG 9818; on black ash, RLG 9590, 9836.  
*Hyphoderma praetermissum* (Karst.) J. Erikss. et Strid  
 Associated with a white rot; on quaking aspen, RLG 9865; on hardwood, FP 100924.  
*Hyphoderma puberum* (Fr.) Wallr.  
 Associated with a white rot; on conifer, FP 100734; on quaking aspen, RLG 9652, 9721; on hardwood, FP 100705.  
*Hyphoderma radula* (Fr.) Donk  
 Associated with a white rot; on hardwood, FP 100730, 100742.  
*Hyphoderma setigerum* (Fr.) Donk  
 Associated with a white rot; on balsam fir, RLG 9868; on sugar maple, RLG 9534.  
*Hyphodontia albicans* (Pers.) Parm.  
 Associated with a white rot; on American basswood, RLG 9830.  
*Hyphodontia alutacea* (Fr.) J. Erikss.  
 Associated with a white rot; on red pine, RLG 9785.  
*Hyphodontia alutaria* (Burt) J. Erikss.  
 Associated with a white rot; on white spruce, RLG 9588.  
*Hyphodontia arguta* (Fr.) J. Erikss.  
 Associated with a white rot; on northern white-cedar, FP 100595; on hardwood, FP 100767.  
*Hyphodontia aspera* (Fr.) J. Erikss.  
 Associated with a white rot; on white spruce, RLG 9739; on conifer, FP 100694; on quaking aspen, FP 100867.  
*Hyphodontia breviseta* (Karst.) J. Erikss.

- Associated with a white rot; on balsam fir, FP 100780, 100833; on black spruce, RLG 9484; on spruce, FP 100880, 100881; on conifer, FP 100879; on hardwood, FP 100720.
- Hyphodontia crustosa* (Pers. ex Fr.) J. Erikss.  
Associated with a white rot; on conifer, FP 100769.
- Hyphodontia pallidula* (Bres.) J. Erikss.  
Associated with a white rot; on red pine, RLG 9860.
- Hyphodontia papillosa* (Fr.) J. Erikss.  
Associated with a white rot; on eastern white pine, FP 100757.
- Hyphodontia sambuci* (Pers. ex Fr.) J. Erikss.  
Associated with a white rot; on northern white-cedar, FP 100596; on quaking aspen, FP 100843.
- Hyphodontia spathulata* (Fr.) Parm.  
Associated with a white rot; on pine, FP 100760; on red pine, RLG 9795; on conifer, FP 100766, 100782, 100875, 100878; on hardwood, FP 100758, 100761, 100772, 100866, 100876, 100877.
- Hyphodontia stipata* (Fr.) Gilbertson  
Associated with a white rot; on balsam fir, RLG 9746; on hardwood, FP 100755.
- Hyphodontia subalutacea* (Karst.) J. Erikss.  
Associated with a white rot; on red pine, RLG 9786; on sugar maple, RLG 9536.
- Hypochnicium sphaerosporum* (Hoehn. et Litsch.) J. Erikss.  
Associated with a white rot; on hardwood, FP 100790.
- Metulodontia nivea* (Karst.) Parm.  
Associated with a white rot; on quaking aspen, RLG 9688; on hardwood, FP 100723, 100848.
- Metulodontia roumegueri* (Bres.) Parm.  
Associated with a white rot; on hardwood, FP 100832.
- Mycoacia stenodon* (Pers.) Donk  
Associated with a white rot; on quaking aspen, FP 100779.
- Odontia subcrinale* (Pk.) Gilbertson  
Associated with a white rot; on hardwood, FP 100868.
- Peniophora cinerea* (Fr.) Cke.  
Associated with a white rot; on American basswood, RLG 9769.
- Peniophora nuda* (Fr.) Bres.  
Associated with a white rot of dead branches; on hardwood, FP 100607, 100643, 100861.
- Peniophora piceae* (Pers.) J. Erikss.  
Associated with a white rot; on balsam fir, RLG 9761.
- Peniophora piceina* Overh.  
Associated with a white rot; on balsam fir, RLG 9516; on conifer, FP 100739, 100792, 100800, 100844, 100846, 100857; on balsam poplar, RLG 9550; on poplar, RLG 9625; on quaking aspen, RLG 9833; on hardwood, FP 100702, 100729, 100862.
- Peniophora polygonia* (Pers. ex Fr.) Bourd. et Galz.  
Associated with a white rot; on quaking aspen, FP 100738.
- Peniophora rufa* (Fr.) Boid.  
Associated with a white rot; on quaking aspen, RLG 9672, 9873, FP 100799.
- Peniophora septocystidia* Burt  
Associated with a white rot; on balsam poplar, RLG 9759; on hardwood, FP 100695.
- Peniophora violaceolivida* (Sommerf.) Mass.  
Associated with a white rot; on conifer, FP 100786; on hardwood, FP 100719.
- Phanerochaete affinis* (Burt) Parm.  
Associated with a white rot; on hardwood, FP 100726, 100863.
- Phanerochaete carnosa* (Burt) Parm.  
Associated with a white rot; on balsam fir, RLG 9549.
- Phanerochaete cumulodentata* (Nikol.) Parm. First Record for North America.  
Associated with a white rot; on poplar, RLG 9544.
- Phanerochaete sanguinea* (Fr.) Pouz.  
Associated with a white rot; on red pine, RLG 9784.
- Phanerochaete tuberculata* (Karst.) Parm.  
Associated with a white rot; on paper birch, FP 100748.
- Phanerochaete velutina* (DC. ex Fr.) Jülich  
Associated with a white rot; on quaking aspen, FP 100791; on hardwood, FP 100714, 100725, 100789, 100807.
- Phlebia hydroides* (Cke. et Mass.) M.P. Chris.  
Associated with a white rot; on black ash, RLG 9592, 9844; on quaking aspen, RLG 9726, 9829; on hardwood, RLG 9859.
- Phlebia romellii* (Litsch.) Parm.  
Associated with a white rot; on northern white-cedar, FP 100591.
- Phlebia rufa* (Pers. ex Fr.) M. P. Chris.  
Associated with a white rot; on black ash, RLG 9498.
- Phlebia sulfureo-isabellina* (Litsch. in Pilát) Parm.  
Associated with a white rot; on balsam fir, RLG 9831, 9483.
- Philoderma bicolor* (Pk.) Jülich  
Associated with a white rot; on conifer, FP 100712.
- Piloderma byssinum* (Karst.) Jülich  
Associated with a white rot; on white spruce, RLG 9738.
- Plicaturopsis crispa* (Pers. ex Fr.) Reid  
Associated with a white rot; on alder, FP 100952; on American basswood, RLG 9451; on paper birch, RLG 9751.
- Radulodon americanus* Ryv.  
Associated with a white rot; on paper birch, RLG 9471, FP 100781; on poplar, RLG 9488, 9576; on quaking aspen, RLG 9531; on hardwood, FP 100771, 100873.
- Resinicium bicolor* (Fr.) Parm.  
Associated with a white rot; on balsam fir, RLG 9823.
- Resinicium furfuraceum* (Bres.) Parm.  
Associated with a white rot; on eastern white pine, FP 100715.
- Sistotrema raduloides* (Karst.) Donk  
Associated with a white rot; on American basswood, FP 100874; on quaking aspen, RLG 9538; on hardwood, FP 100951.
- Sublicystidium longisporum* (Pat.) Parm.  
Associated with a white rot; on balsam fir, RLG 9814; on black ash, RLG 9716, 9839; on poplar, RLG 9528; on quaking aspen, RLG 9656, FP

- 100806; on hardwood, RLG 9850, FP 100701.  
*Trechispora candidissima* (Schw.) Bond. et Sing.  
 Associated with a white rot; on quaking aspen, RLG 9671.
- Trechispora confinis* (Bourd. et Galz.) Liberta  
 Associated with a white rot; on black spruce, RLG 9566; on red pine, RLG 9796, FP 100810; on oak, FP 100704; on quaking aspen, FP 100728; on fungus, RLG 9575.
- Trechispora farinacea* (Pers. ex Fr.) Liberta  
 Associated with a white rot; on conifer, FP 100831; on maple, FP 100763; on quaking aspen, FP 100882.
- Trechispora vaga* (Fr.) Liberta  
 Associated with a white rot; on paper birch, FP 100834; on quaking aspen, FP 100838; on hardwood, FP 100709, 100740, 100839, 100847.
- Trechispora varicolor* (Bourd. et Galz.) Liberta  
 Associated with a white rot; on red pine, RLG 9862.
- Tubulicrinis propinqua* (Bourd. et Galz.) Donk  
 Associated with a white rot; on conifer, FP 100805.
- Cyphellaceae**
- Cyphellopsis anomala* (Pers. ex Fr.) Donk  
 Associated with a white rot; on black ash, RLG 9600; on quaking aspen, RLG 9653, 9690; on hardwood, FP 100744.
- Porotheleum fimbriatum* (Pers. ex Fr.) Fr.  
 Associated with a white rot; on poplar, RLG 9477; on quaking aspen, FP 100647, 100648, 100649, 100821; on hardwood, FP 100659, 100822.
- Stigmatolemma poriaeforme* (Pers. ex Merát) Kalchbr.  
 Associated with a white rot; on hardwood, FP 100837.
- Hericiaceae**
- Hericium coralloides* (Scop. ex Fr.) S.F. Gray  
 Associated with a white rot; on balsam poplar, RLG 9766.
- Mucronella aggregata* Fr.  
 Associated with a white rot; on balsam poplar, RLG 9762.
- Hymenochaetaceae**
- Hymenochaete fuliginosa* (Pers.) Bres. sensu Burt  
 Associated with a white rot; on hardwood, FP 100613.
- Inonotus glomeratus* (Pk.) Murr.  
 Associated with a white heartrot of living trees, also on logs and stumps; on balsam poplar, RLG 9737.
- Inonotus tomentosus* (Fr.) Gilbertson  
 Associated with a butt and root rot of conifers; on ground under conifers and hardwoods, RLG 9511.
- Phellinus conchatus* (Pers. ex Fr.) Quéf.  
 Associated with a white rot; on black ash, RLG 9464, 9504; on hardwood, FP 100977.
- Phellinus ferruginosus* (Schrad. ex Fr.) Pat.  
 Associated with a white rot; on spruce, RLG 9546; on conifer, FP 100677; on balsam poplar, RLG 9472; on red oak, RLG 9691; on hardwood, FP 100819.
- Phellinus gilvus* (Schw.) Pat.  
 Associated with a white rot; on red oak, RLG 9573.
- Phellinus igniarius* (L. ex Fr.) Quéf.  
 Associated with a white heartrot of living hardwoods; on paper birch, RLG 9433.
- Phellinus laevigatus* (Fr.) Bourd. et Galz.  
 Associated with a white rot; on paper birch, RLG 9792; on quaking aspen, RLG 9729.
- Phellinus pini* (Thore ex Fr.) A. Ames  
 Associated with a white pocket rot of living conifers; on black spruce, RLG 9604; on spruce, FP 100889.
- Phellinus robustus* (Karst.) Bourd. et Galz.  
 Associated with a white heartrot of living conifers and hardwoods; on balsam fir, RLG 9728; on red oak, RLG 9524; on willow, RLG 9585.
- Phellinus tremulae* (Bond.) Bond. et Boris.  
 Associated with a white heartrot of living aspen; on quaking aspen, FP 100672, 100676, 100980.
- Phellinus viticola* (Schw. ex Fr.) Donk  
 Associated with a white rot; on balsam fir, RLG 9482.
- Lachnocladiaceae**
- Scytinostroma galactinum* (Fr.) Donk  
 Associated with a white rot and common in the Lake Itasca region; on balsam fir, FP 100788; on pine, FP 100716; on red pine, RLG 9794; on white spruce, RLG 9487; on conifer, FP 100750, 100854; on balsam poplar, RLG 9748; on quaking aspen, RLG 9523, FP 100747; on hardwood, RLG 9438, FP 100699, 100703, 100718, 100722, 100733, 100784, 100793, 100794, 100801, 100853, 100954.
- Scytinostroma praestans* Jacks.  
 Associated with a white rot; on hardwood, FP 100811.
- Vararia effusata* (Cke. et Ell.) Rogers et Jacks.  
 Associated with a white rot; on black ash, RLG 9845.
- Vararia granulosa* (Pers. ex Fr.) M. Laur.  
 Associated with a white rot; on red pine, RLG 9803.
- Vararia investiens* (Schw.) Karst.  
 Associated with a white rot; on oak, FP 100708; on quaking aspen, FP 100692, 100835; on hardwood twigs and branches, RLG 9530, FP 100620, 100710, 100836.
- Polyporaceae**
- Antrodia malicola* (Berk. et Curt.) Donk  
 Associated with a brown rot; on maple, FP 100660.
- Antrodia serialis* (Fr.) Donk  
 Associated with a brown rot; on black spruce, FP 100893; on red pine, RLG 9805; on spruce, RLG 9447, 9500; on conifer, FP 100646, 100825.
- Antrodia variiformis* (Pk.) Donk  
 Associated with a brown rot; on black spruce, RLG 9485, FP 100609; on white spruce, RLG 9768.
- Bjerkandera adusta* (Willd. ex Fr.) Karst.  
 Associated with a white rot; on white spruce, RLG 9764; on paper birch, FP 100651; on quaking aspen, RLG 9664; on hardwood, FP 100903.
- Cerrera unicolor* (Bull. ex Fr.) Murr.  
 Associated with a brown rot; on paper birch, RLG 9426, FP 100887, 100898; on hardwood, FP 100895.
- Coriolus versicolor* (L. ex Fr.) Quéf.  
 Associated with a white rot; on hardwood, RLG 9666, FP 100892.
- Coriolus zonatus* (Nees ex Fr.) Quéf.  
 Associated with a white rot; on paper birch, FP 100602.
- Daedaleopsis confragosa* (Bolt. ex Fr.) Schroet.  
 Associated with a white rot; on paper birch, RLG 9580.

- Datronia epilobii* (Karst.) Donk  
Associated with a white rot; on paper birch, RLG 9596.
- Dichomitus squalens* (Karst.) Reid  
Associated with a white pocket rot; on black spruce, RLG 9605; on red pine, RLG 9787; on white spruce, RLG 9869.
- Favolus alveolaris* (DC. ex Fr.) Quel.  
Associated with a white rot; on American basswood, RLG 9468, FP 100905; on hardwood, FP 100654.
- Fomes fomentarius* (L. ex Fr.) Kickx  
Associated with a white heartrot of living trees; on paper birch, RLG 9427.
- Fomitopsis annosa* (Fr.) Karst.  
Associated with a white rot; on white spruce, FP 100664.
- Fomitopsis cajanderi* (Karst.) Kotl. et Pouz.  
Associated with a brown rot; on black spruce, RLG 9564; on northern white-cedar, FP 100606; on spruce, RLG 9453, 9496, FP 100608; on white spruce, FP 100891.
- Fomitopsis ohiensis* (Berk.) Bond. et Sing.  
Associated with a white rot; on white ash, RLG 9780.
- Fomitopsis pinicola* (Swartz ex Fr.) Karst.  
Associated with a brown rot; on black spruce, RLG 9481; on conifer, FP 100904; on paper birch, FP 100655; on quaking aspen, RLG 9618, FP 100632, 100896; on hardwood, FP 100974.
- Fomitopsis rosea* (Alb. et Schw. ex Fr.) Karst.  
Associated with a brown rot; on black spruce, RLG 9448; on spruce, FP 100816, 100824.
- Fomitopsis scutellata* (Schw.) Bond. et Sing.  
Associated with a white rot; on alder, RLG 9584.
- Funalia trogii* (Berk.) Bond. et Sing.  
Associated with a white rot; on quaking aspen, RLG 9577, FP 100605; on hardwood, FP 100670.
- Gloeophyllum saepiarium* (Wulf. ex Fr.) Karst.  
Associated with a brown rot; on black spruce, RLG 9454, FP 100901.
- Gloeoporus dichrous* (Fr.) Bres.  
Associated with white rot; on red pine, RLG 9804.
- Hirschioporus abietinus* (Dicks. ex Fr.) Donk  
Associated with a white pocket rot; on balsam fir, RLG 9437, FP 100689; on pine, FP 100973; on conifer, FP 100680.
- Hirschioporus pargamenus* (Fr.) Bond. et Sing.  
Associated with a white rot; on paper birch, RLG 9489, FP 100886, 100976; on quaking aspen, RLG 9674, FP 100894.
- Irpex tulipiferae* (Schw.) Fr.  
Associated with a white rot; on common chokecherry, RLG 9570; on sugar maple, RLG 9574; on hardwood, FP 100615, 100688, 100978.
- Ischnoderma resinatum* (Schrad. ex Fr.) Karst.  
Associated with a fragrant white rot; on quaking aspen, FP 100626.
- Laetiporus sulphureus* (Bull. ex Fr.) Bond. et Sing.  
Associated with a brown heartrot of living hardwoods; on quaking aspen, RLG 9813; on red oak, RLG 9572.
- Lenzites betulina* (L. ex Fr.) Fr.  
Associated with a white rot; on paper birch, FP 100890.
- Phaeolus fibrillosus* (Karst.) Bourd. et Galz.  
Associated with a brown rot; on paper birch, RLG 9863, FP 100678.
- Phaeolus schweinitzii* (Fr.) Pat.  
Associated with a brown root and butt rot of conifers; on black spruce, RLG 9480.
- Polyporus arcularius* Batsch ex Fr.  
Associated with a white rot; on hardwood, FP 100617, 100900.
- Polyporus elegans* Bull. ex Fr.  
Associated with a white rot; on black ash, RLG 9462, 9499, 9519; on paper birch, RLG 9490; on hardwood, RLG 9474.
- Polyporus picipes* Fr.  
Associated with a white rot; on American basswood, FP 100656; on balsam poplar, FP 100902; on black ash, FP 100603; on quaking aspen, RLG 9556, FP 100658; on hardwood, FP 100885, 100888.
- Polyporus varius* Fr.  
Associated with a white rot; on *Poria* on black ash, RLG 9466.
- Poria aneirina* (Sommerf.) Cke.  
Associated with a white rot; on maple, FP 100669; on quaking aspen, FP 100631.
- Poria cinerascens* (Bres.) Sacc. et Syd.  
Associated with a white rot; on spruce, FP 100687.
- Poria cocos* (Schw.) Wolf  
Associated with a brown rot; on quaking aspen, FP 100604, 100815.
- Poria corticola* (Fr.) Cke.  
Associated with a white rot; on American basswood, RLG 9522; on maple, FP 100673; on quaking aspen, RLG 9700, 9867, FP 100665; on hardwood, FP 100671.
- Poria elongata* Overh.  
Associated with a white rot; on maple, FP 100975; on quaking aspen, RLG 9658, FP 100629, 100630, 100662, 100675, 100681, 100685.
- Poria eupora* (Karst.) Cke.  
Associated with a white rot; on American basswood, RLG 9601; on oak, FP 100813; on poplar, RLG 9632; on quaking aspen, FP 100622, 100820, 100897.
- Poria fissiliformis* Pilat  
Associated with a white rot; on quaking aspen, FP 100823.
- Poria griseoalba* (Pk.) Sacc.  
Associated with a white rot; on quaking aspen, FP 100674.
- Poria lenis* (Karst.) Sacc.  
Associated with a white rot; on balsam fir, FP 100691; on spruce, RLG 9744; on white spruce, RLG 9741; on conifer, FP 100814.
- Poria luteoalba* (Karst.) Sacc.  
Associated with a white rot; on red pine, RLG 9793.
- Poria nigrescens* Bres.  
Associated with a white rot; on balsam fir, RLG 9778; on paper birch, RLG 9507, 9630, 9781.
- Poria oleagina* Overh.  
Associated with a brown rot; on spruce, RLG 9497.
- Poria pannocincta* (Rom.) Lowe  
Associated with a white rot; on quaking aspen,

- RLG 9699, FP 100621, 100624, 100650, 100818, 100979; on hardwood, FP 100653, 100690, 100817.
- Poria reticulata* (Fr.) Cke.  
Associated with a white rot; on poplar, RLG 9541; on quaking aspen, RLG 9720.
- Poria rhodella* (Fr.) Cke.  
Associated with a white rot; on black ash, RLG 9465; on quaking aspen, FP 100682.
- Poria rixosa* (Karst.) Karst.  
Associated with a white rot; on black spruce, RLG 9479.
- Poria romellii* Donk  
Associated with a white rot; on quaking aspen, FP 100666.
- Poria sanguinolenta* (Alb. et Schw. ex Fr.) Cke.  
Associated with a white rot; on black ash, RLG 9838.
- Poria spissa* (Schw.) Cke.  
Associated with a white rot; on oak, FP 100645; on poplar, RLG 9660, 9760.
- Poria subacida* (Pk.) Sacc.  
Associated with a white rot; on eastern white pine, RLG 9542; on balsam fir, RLG 9757; on red pine, RLG 9797, 9798; on American basswood, FP 100668; on maple, FP 100683; on quaking aspen, RLG 9791; on hardwood, FP 100661.
- Poria subincarnata* (Pk.) Murr.  
Associated with a white rot; on balsam fir, RLG 9513, 9799, 9800, 9801; on conifer, FP 100663, 100667, 100684.
- Poria tarda* (Berk.) Cke.  
Associated with a white rot; on oak, FP 100657; on quaking aspen, RLG 9706.
- Poria tenuis* (Schw.) Cke. var. *pulchella* (Schw.) Lowe  
Associated with a white rot; on oak, FP 100623, 100644.
- Poria xantha* (Fr.) Cke.  
Associated with a brown rot; on balsam fir, RLG 9486; on conifer, RLG 9806, FP 100899; on quaking aspen, RLG 9763.
- Poronidulus conchifer* (Schw.) Murr.  
Associated with a white rot of dead branches; on American elm, FP 100612.
- Spongipellis borealis* (Fr.) Pat.  
Associated with a white rot and butt rot of living trees; on white spruce, RLG 9555.
- Tyromyces albellus* (Pk.) Bond. et Sing.  
Associated with a white rot; on alder, RLG 9606; on paper birch, RLG 9750.
- Tyromyces canadensis* (Overh.) Lowe  
Associated with a white rot; on spruce, RLG 9501.
- Tyromyces fragilis* (Fr.) Donk  
Associated with a brown rot; on balsam fir, RLG 9638; on red pine, RLG 9861.
- Tyromyces fumidiceps* Atk.  
Associated with a white rot; on black ash, RLG 9848, 9849, 9853, 9854; on hardwood, RLG 9847, 9857.
- Tyromyces guttulatus* (Pk.) Murr.  
Associated with a brown rot; on white spruce, RLG 9802.
- Tyromyces semipileatus* (Pk.) Murr.  
Associated with a white rot; on maple, FP 100601.
- Tyromyces spumeus* (Sow. ex Fr.) Imaz. var. *malicola*
- Lloyd  
Associated with a white rot; on black ash, FP 100514; on quaking aspen, FP 100516.
- Tyromyces undosus* (Pk.) Murr.  
Associated with a brown rot; on conifer, FP 100619.
- Punctulariaceae**
- Punctularia strigoso-zonata* (Schw.) Talbot  
Associated with a white rot; on paper birch, FP 100872; on quaking aspen, RLG 9445; on hardwood, FP 100614, 100618.
- Steccherinaceae**
- Steccherinum adustum* (Schw.) Banker  
Associated with a white rot; on hardwood, RLG 9812.
- Steccherinum ciliolatum* (Berk. et Curt.) Gilbertson et Budington  
Associated with a white rot; on conifer, FP 100756 on balsam poplar, RLG 9753; on hardwood, FP 100762, 100773, 100777.
- Steccherinum fimbriatum* (Fr.) J. Erikss.  
Associated with a white rot; on conifer, FP 100775; on eastern hophornbeam, RLG 9626; on sugar maple, RLG 9532; on hardwood, FP 100759, 100764, 100883, 100884.
- Steccherinum fuscoatrum* (Fr.) Gilbertson  
Associated with a white rot; on quaking aspen, FP 100679; on hardwood, RLG 9852, FP 100774.
- Steccherinum ochraceum* (Pers. ex Fr.) S'F. Gray  
Associated with a white rot; on American basswood, FP 100871; on paper birch, FP 100783; on quaking aspen, RLG 9622; on hardwood, FP 100776.
- Stereaceae**
- Boreostereum radiatum* (Pk.) Parm.  
Associated with a white rot; on black spruce, RLG 9717; on white spruce, RLG 9470.
- Lopharia cinerascens* (Schw.) G. H. Cunn.  
Associated with a white rot; on American elm, RLG 9443.
- Stereum hirsutum* (Willd. ex Fr.) S. F. Gray  
Associated with a white rot; on paper birch, RLG 9749.
- Stereum ostrea* (Blume et Nees ex Fr.) Fr.  
Associated with a white rot; on paper birch, FP 100906; on hardwood, FP 100907.
- Xylobolus frustulatus* (Pers. ex Fr.) Boid.  
Associated with a white pocket rot; on oak, FP 100787; on red oak, RLG 9668, 9701.
- Thelephoraceae**
- Pseudotomentella longisterigmata* M. J. Larsen  
On balsam fir, RLG 9825.
- Pseudotomentella tristis* (Karst.) M. J. Larsen  
On eastern white pine, RLG 9517; on conifer, FP 100522; on quaking aspen, FP 100923.
- Thelphora caryophyllea* Fr.  
On soil along creek, RLG 9613.
- Tomentella asperula* (Karst.) Hoehn. et Litsch.  
On balsam poplar, RLG 9754.
- Tomentella botryoides* (Schw.) Bourd. et Galz.  
On quaking aspen, RLG 9711.
- Tomentella bryophila* (Pers.) M.J. Larsen  
On quaking aspen, RLG 9695, 9774.

*Tomentella clavigera* Litsch.  
On balsam fir, RLG 9826; on poplar, FP 100519, 100527.

*Tomentella coerulea* (Bres.) Hoehn. et Litsch.  
On black ash, RLG 9837; on hardwood, FP 100520.

*Tomentella crinalis* (Fr.) M. J. Larsen  
On quaking aspen, RLG 9634, 9705, 9719, 9776; on hardwood, FP 100830.

*Tomentella ferruginea* (Pers. per Pers. ex Fr.) Pat.  
On conifer, RLG 9429, 9431; on American basswood, FP 100925; on black ash, FP 100529; on quaking aspen, RLG 9539, 9623, 9631, 9697, 9703, 9722; on sugar maple, RLG 9535; on hardwood, FP 100517, 100518, 100521.

*Tomentella griseo-umbrina* Litsch.  
On balsam fir, RLG 9822.

*Tomentella ochracea* (Sacc.) M. J. Larsen  
On hardwood, FP 100845.

*Tomentella pilosa* (Burt) Bourd. et Galz.  
*Tomentella pilosa* (Burt) Bourd. et Galz.  
On eastern white pine, RLG 9518; on poplar, RLG 9773; on quaking aspen, RLG 9725.

*Tomentella punicea* (Alb. et Schw. per Pers. ex Fr.) Schroet.  
On balsam fir, RLG 9816; on quaking aspen, RLG 9727.

*Tomentella ramossissima* (Berk. et Curt.) Wakef.  
On eastern white pine, RLG 9469.

*Tomentella ruttneri* Litsch.  
On conifer, RLG 9740; on alder, RLG 9743; on black ash, RLG 9811.

*Tomentella sublilacina* (Ell. et Holw.) Wakef.  
On white spruce, RLG 9745.

*Tomentella substestacea* Bourd. et Galz.  
On balsam fir, RLG 9819.

*Tomentella violaceofusca* (Sacc.) M. J. Larsen  
On balsam fir, RLG 9834; on white spruce, RLG 9587; on poplar, RLG 9642.

*Tomentellastrum alutaceo-umbrinum* (Bres.) M. J. Larsen  
On unknown, FP 100525, 100528.

*Tomentellastrum floridanum* (Ell. et Ev.) M. J. Larsen  
On quaking aspen, RLG 9633, 9698; on buried wood, RLG 9615.

*Tomentellina fibrosa* (Berk. et Curt.) M. J. Larsen  
On balsam poplar, RLG 9548; on quaking aspen, RLG 9624, 9693, 9702; on hardwood, FP 100523, 100524.

#### AURICULARIALES

##### Auriculariaceae

*Auricularia auricula* (Hook.) Underw.  
On balsam fir, RLG 9460; on spruce, RLG 9449.

*Platygløea peniophorae* Bourd. et Galz.  
On hardwood, FP 100732.

##### DACRYMYCETALES

*Dacrymyces palmatus* (Schw.) Bres. in Hoehn.  
On balsam fir, RLG 9435, 9536.

#### TREMELLALES

##### Tremellaceae

*Aporpium caryae* (Schw.) Teix. et Rogers  
Associated with a white rot; on quaking aspen, RLG 9578.

*Basidiödendron eyrei* (Wakef.) Luck-Allen  
On maple, FP 100693; on hardwood, FP 100856.

*Exidia recisa* S. F. Gray ex Fr.  
On oak, RLG 9439.

*Exidia repanda* Fr.  
On paper birch, RLG 9452.

*Exidia spiculosa* (S. F. Gray) Sommerf.  
On alder, RLG 9586-A; on paper birch, RLG 9450; on hardwood, RLG 9430.

*Exidiopsis calcea* (Pers.) Wells  
On balsam fir, FP 100850, 100851; on black spruce, RLG 9461; on spruce, FP 100858; on conifer, FP 100610, 100696, 100697, 100751, 100785, 100859; on hardwood, FP 100841.

*Stypella minor* A. Moll.  
On quaking aspen, RLG 9644.

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