

An Inventory of Fungal Diversity in Ohio

Research Thesis

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by

Django Grootmyers

The Ohio State University

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ABSTRACT

Fungi are a large and diverse group of eukaryotic organisms that play important roles in nutrient cycling in ecosystems worldwide. Fungi are poorly documented compared to plants in Ohio despite 197 years of collecting activity, and an attempt to compile all the species of fungi known from Ohio has not been completed since 1894. This paper compiles the species of fungi currently known from Ohio based on vouchered fungal collections available in digitized form at the Mycology Collections Portal (MyCoPortal) and other online collections databases and new collections by the author. All groups of fungi are treated, including lichens and microfungi. 69,795 total records of Ohio fungi were processed, resulting in a list of 4,865 total species-level taxa. 250 of these taxa are newly reported from Ohio in this work. 229 of the taxa known from Ohio are species that were originally described from Ohio. A number of potentially novel fungal species were discovered over the course of this study and will be described in future publications. The insights gained from this work will be useful in facilitating future research on Ohio fungi, developing more comprehensive and modern guides to Ohio fungi, and beginning to investigate the possibility of fungal conservation in Ohio.

INTRODUCTION

Fungi are a large and very diverse group of organisms that play a variety of vital roles in natural and agricultural ecosystems: as decomposers (Lindahl, Taylor and Finlay 2002), mycorrhizal partners of plant species (Van Der Heijden *et al.* 1998), and as pathogens of plants and animals (Rossman 2008). Estimates for the total diversity of fungi worldwide have ranged from about 500 thousand to 12 million species depending on the methods used (Hawksworth

1991, Fröhlich and Hyde 1999, Schmit and Mueller 2007, Bass and Richards 2011, Blackwell 2011, Hawksworth 2012, B. Wu *et al.* 2019). These studies have largely been in agreement that fungi are more diverse than plants in terms of the total number of species. Despite this, fungi are poorly documented compared to plants in Ohio and in North American in general (Bates *et al.* 2018, Bunyard 2003). This is likely due in part to the ephemeral nature of most fungal fruiting bodies, but also due to a lack of research. Fairly complete surveys for some groups of Ohio fungi exist (Ellett 1957, Ellett 1966, Ellett 1989, Johnson 1929, Morgan 1902, O’Kane 1910, Overholts 1914, Stover 1912, Williams and Schmitthenner 1956), especially for lichens (Corrington 1921, Fink and Richards 1915, Fink and Richards 1921, Taylor 1967, Taylor 1968, Flenniken and Showman 1990, Showman and Flenniken 2004, Showman and Klips 2015), and partial inventories of the fungi of some regions of Ohio exist (Morgan 1883, Brain 1912, Bunyard 2003, Cibula 1974, Cooke 1974), but an inventory of all of Ohio’s fungi has not been completed since W. A. Kellerman’s treatment of Ohio’s fungi as parts of his inventory of all of Ohio’s “plants” in 1894 (Kellerman and Werner 1894). William Bridge Cooke was working on a more modern inventory of Ohio fungi when he died in 1993, but this remains unpublished (Stuckey 1993; Vincent, Powell, and Burdsall 1994; Michael A. Vincent pers. comm.). Nearly all of the existing literature on the distribution of Ohio fungi predates the 1980s, and as such, also predates the advent of DNA sequencing as a tool in the identification of fungi, which has revolutionized fungal systematics, allowed for anamorph-teleomorph linkage via DNA sequence data, and revealed many cryptic species (Taylor 2011).

The mass digitization of fungal collections in online databases including MyCoPortal (Miller and Bates 2017) and CNALH (CNALH 2020) since 2010 has also given modern researchers access to large amounts of fungal collections data from herbaria and fungaria

throughout North America and around the world. According to Bates *et al.* (2018), the majority of herbaria and other fungal collections repositories in the United States have been digitized at MyCoPortal and CNALH, and records of over 3.6 million fungal collections are now publicly available.

This study aims to generate a modern inventory of Ohio's fungal species based on the analysis of digitized collections data and to determine which species of fungi were originally described from Ohio. It will also attempt to investigate the history of fungal collecting in Ohio, to determine when collecting truly started, to analyze how the collecting of fungi from Ohio has changed over time, and to determine which classes of Ohio's fungi are likely to be undersampled.

The checklist of Ohio's fungi in this work (APPENDIX A) is presented in order to facilitate future work on Ohio's fungi. This checklist may have applications in determining how to best prioritize future fungal collecting in Ohio and it could also have applications in fungal conservation as well as in developing more comprehensive guides to Ohio fungi.

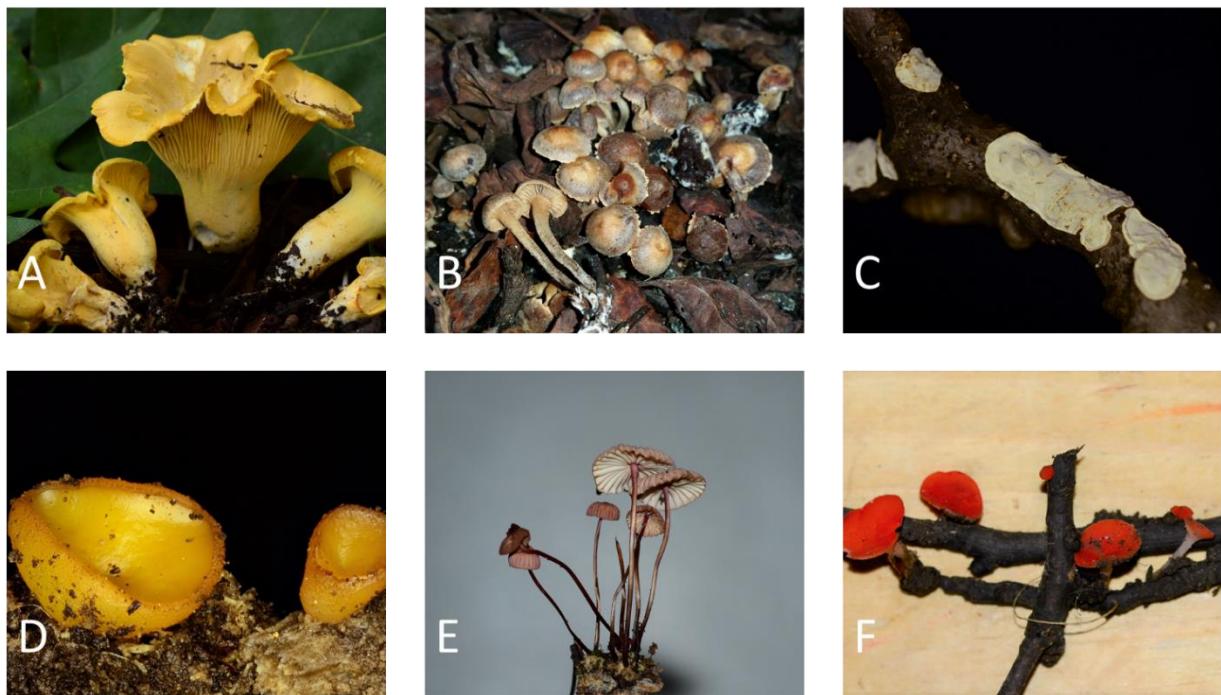


Figure 1. Noteworthy fungal species collected from Ohio. “MO#” indicates the Mushroom Observer entry number under which additional photographs and other associated metadata are available for each collection pictured. **A**, *Cantharellus chicagoensis* (MO#280440), a common chanterelle species newly reported from Ohio in this work; **B**, *Deconica cokeriana* (MO#340420), a species newly collected from Ohio over the course of this study; **C**, *Eichlerella macrospora* (MO#355899), a species originally described from Ohio; **D**, *Elaiopezia waltersii* (MO#365509), a species originally described from Ohio recently combined in a new genus on the basis of recent sequenced collections from Ohio (Van Vooren 2021); **E**, *Marasmius bellipes* (MO#396131), a species described from Ohio that was DNA sequenced for the first time during the course of this study ; **F**, *Sarcoscypha occidentalis* (MO#411962), a species originally described from Ohio that may represent the first fungus collected from Ohio to be studied scientifically (Schweinitz 1832, Stuckey 1966). All photographs taken by Django Grootmyers.

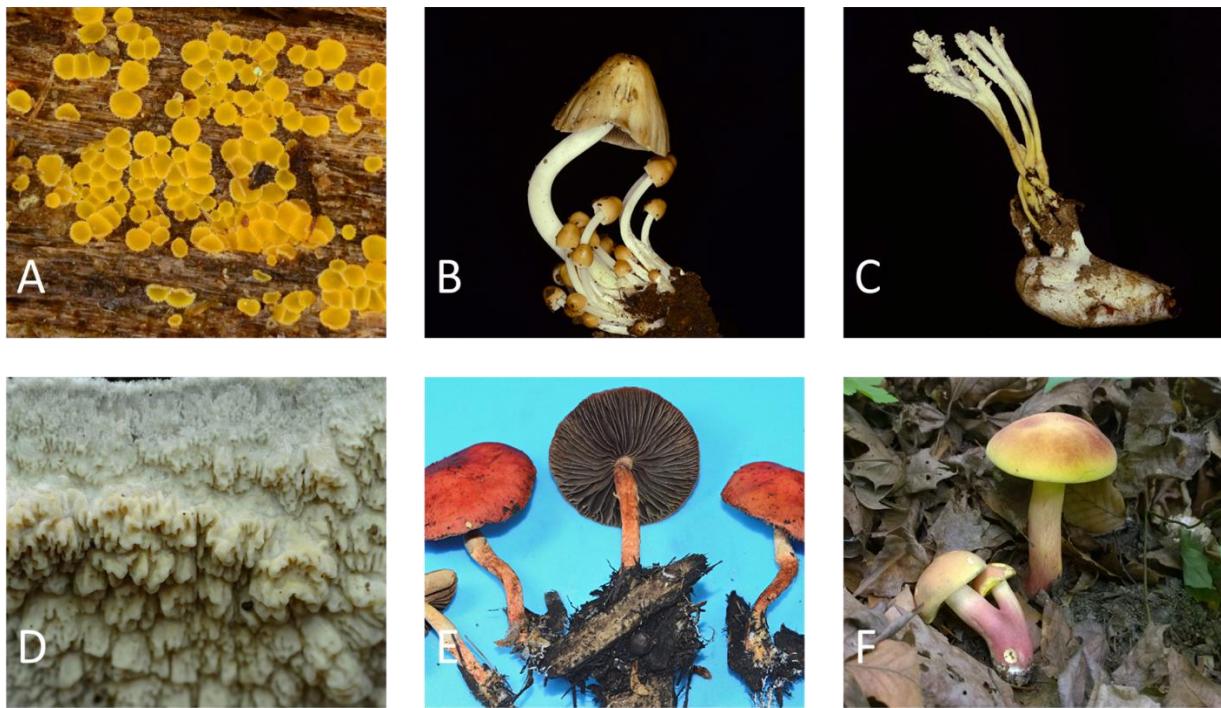


Figure 2. Further noteworthy fungal species collected from Ohio. “MO#” indicates the Mushroom Observer entry number under which additional photographs and other associated metadata are available for each collection pictured. **A**, *Arachnopeziza trabinelloides* (MO#264355), newly reported from Ohio in this work; **B**, *Britzelmayria multipedata* (MO#366466), newly reported from Ohio in this work; **C**, *Cordyceps tenuipes* (MO#371176), a species newly reported from Ohio that may represent one of our most common species of entomopathogenic fungus; **D**, *Phlebia acerina* (MO#278977), newly reported from Ohio in this work; **E**, *Leratiomyces ceres* (MO#298562), a species newly reported from Ohio in this work that may represent a recent introduction from Australia (Halama and Górká 2019); **F**, *Lanmaoa pallidorosea* (MO#261846), a common bolete species newly reported from Ohio in this study . All photographs taken by Django Grootmyers.

MATERIALS AND METHODS

Database Mining

A list of species-level fungal taxa previously reported from Ohio was compiled primarily from collections data in available in the Mycology Collections data Portal (MyCoPortal 2020). All data in MyCoPortal listed as having been collected from Ohio were downloaded as a spreadsheet. This included digitized collections from 65 different herbaria. This dataset was then edited manually in Microsoft Excel to remove all records of non-fungal collections and all records not based on vouchered fungal collections. Non-vouchered collections were removed

from the dataset manually. Non-fungal collections removed from the dataset included collections of Oomycetes, Myxomycetes, Bacteria and plants. Slime mold collections were removed in part by consulting the Nomen Eumycetozoa nomenclatural database (Lado 2017) and deleting all rows containing genera listed in that database. Oomycete collections were removed in part by consulting the NCBI taxonomy database (Schoch *et al.* 2020) and deleting all rows containing genera listed as belonging to the Oomycota. Collections that I personally made were also temporarily removed from the dataset in order to distinguish between collections previously in the MyCoPortal database and those newly collected during this study, and to avoid duplication of records.

Additional data on lichens collected in Ohio were downloaded in spreadsheet form from the Consortium of North American Lichen Herbaria database (CNALH 2020).

A list of all taxon names occurring in the MyCoPortal and CNALH datasets was compiled in Excel and compared to an export of the MycoBank taxonomy database (MycoBank 2020) using a series of Perl scripts (APPENDIX C) in Strawberry Perl version 5.32.0.1. The first Perl script filtered the MycoBank export by removing all taxa not occurring in the MyCoPortal and CNALH datasets. The output of this first Perl script was processed by two additional Perl scripts: a second script which created a list of all of the taxa occurring in MyCoPortal with names that were both current and valid; and a third Perl script which located all taxa in MyCoPortal for which taxon names were not listed as current or valid and replaced these names with their respective current names. The outputs of the second and third Perl scripts were combined manually into a single species list consisting of the current names of all taxa reported from Ohio in the MyCoPortal and CNALH databases with author information and taxonomy for

each taxon. Obsolete synonyms and unpublished herbarium names were not retained in this filtering.

The resulting species list was further consolidated by reducing the remaining synonyms in the dataset through consulting the Index Fungorum and CNALH taxonomic databases (Index Fungorum 2020, CNALH 2020), and by consulting the relevant literature. Notes were also added to indicate whether taxa were lichenized by consulting CNALH. Species reports that were considered dubious were removed to a separate list (APPENDIX B) with notes explaining their removal from the main species list. Dubious reports were those that were either *nomina dubia*, species known to have previously been erroneously reported from eastern North America, or cases where the identification of Ohio collections as a particular species was otherwise in doubt.

Ohio fungal collections data from mycological collections databases not accessible via MyCoPortal or CNALH were downloaded from the following herbaria: K (Kew Mycology Collection 2020), MNHN (Cryptogams [PC] 2020), MA (Herbario de Criptogamia 2020), and L (BioPortal 2020). Collections data from S were obtained from Johannes Lundberg (Lundberg pers. comm.). Species reported in these additional databases but not in MyCoPortal or CNALH were added to the Ohio species list with notes on the provenance of these records. These herbaria are referred to by their Index Herbariorum codes (Thiers 2020), and these and all other herbaria will be referred to by their Index Herbariorum codes throughout the rest of this work.

Notes were added to the list indicating whether species were originally described from Ohio by reviewing the collections indicated as being types in the collections databases analyzed and by consulting the relevant literature.

Collection date information and taxonomy following Tedersoo *et al.* (2018) were added to the various collections database exports, and a new spreadsheet was constructed containing data on total collections per year, cumulative collections through time, and total and cumulative collections by class for further analyses.

Personal Collections

I collected fungi in Ohio between May 2014 and the present. Collection took place in state parks, Central Ohio Nature Conservancy properties, Columbus and Franklin County MetroParks, Gahanna city parks, properties where Ohio Mushroom Society forays were held, and at various private properties with permission of the owners. Fungi were photographed *in situ*, then collected, photographed again *ex situ* if necessary, examined microscopically, dried in a food dehydrator at ~110 °F, and then placed in plastic Ziploc bags for temporary storage in my personal herbarium. Collections were identified using gross morphological features and microscopic features with the relevant mycological literature. Data for each collection was uploaded to Mushroom Observer and herbarium labels were printed using Mushroom Observer's "print labels" feature (Mushroom Observer 2020).

When possible, the ITS region was sequenced for interesting collections by Stephen Russell at Purdue University using ITS1F-ITS4 primers. I also sequenced collections relevant to ongoing projects in the Jason C. Slot Fungal Evolutionary Ecology Lab at the Ohio State University from tissue cultures obtained from these collections. ITS1F-ITS4 primers were also used for these collections. Some collections were also sequenced through the Fungal Diversity Survey (FunDiS), formerly the North American Mycoflora Project, when sequencing grants were available. Collections sequenced via FunDiS were generally also sequenced for the ITS region.

Candidates for DNA sequencing were collections that represented previously unsequenced species, potential new records for Ohio or the USA, collections that could not be properly identified with the mycological literature, or collections belonging to groups known to contain cryptic and/or undescribed species. After successful sequencing, the BLAST function on GenBank was used to analyze sequence data (GenBank 2020). After sequence analysis, or after labels were printed for collections that were not sequenced, I sent collections to the MU and PUL herbaria, or to researchers working on the relevant taxonomic group. Many of these collections have been digitized and are accessible on MyCoPortal.

I exported my collections data from Mushroom Observer in the form of a spreadsheet. Species I collected that had not been reported from Ohio previously were added to the overall Ohio species list spreadsheet with notes on the relevant collections. Additionally, notes were added indicating which species previously reported from Ohio were recollected by me during this study. Notes on whether species reported from Ohio were supported with DNA sequence data from my collections or other sources were added to the Ohio species list, and GenBank (2020) was consulted to determine whether my sequenced collections represented previously unsequenced species.

RESULTS

Herbarium Collections

In total, 69,795 records of Ohio fungal collections were located. Of these, 46,746 were from MyCoPortal, 20,431 were from CNALH, 1,430 were from my personal collections uploaded to Mushroom Observer, 991 were from S, 157 were from K, 37 were from MA, and 3

were from MNHN. These collections represent only those that have been digitized and were available online as of February of 2021.

In the course of my research, I came across several herbaria containing Ohio collections that have yet to be digitized. Most importantly, OS contains many Ohio collections, including collections from L. O. Overholts and W. A. Kellerman among others, based on collections that I have personally observed. M. M. Johnson (1929) published on the Gasteromycetes of Ohio while at the Ohio State University, and all of her collections were apparently deposited at OS. There were no records of M. M. Johnson collections in the collections databases examined. C. W. Ellett also had surprisingly few collections –only 17— present in the available collections databases given his extensive work on the plant pathogenic fungi of Ohio. His collections were also largely deposited at OS (Ellett 1957, Ellett 1966, Ellett 1989). BHO also contains collections of fungi from various Ohio Mushroom Society forays (Martha Bishop pers. comm.). XAL in Mexico contains several *Psilocybe* collections from Ohio (Allen, Gartz and Molter 2009) as well. It is also likely that K and MNHN contain additional Ohio collections that have not yet been digitized. William Starling Sullivant, for example, sent collections from Ohio to both Miles Joseph Berkeley and Camille Montagne, whose collections are currently housed at K and MNHN respectively (Montagne 1856, Murrill 1923, Ryvarden 1982). Only 2 records of Sullivant collections were found among the digitized collections at MNHN. None were located among the digitized K collections. The MNHN collections represent 2 collections of *Parmotrema margaritatum*, including the holotype of that species. Despite having sent collections of various gilled mushrooms and polypores to Berkeley and Montagne (Montagne 1856, Murrill 1923), some of these being the holotypes of species including *Marasmius sullivantii* (Armstrong 1901), no records of Sullivant’s basidiomycete collections exist in a digitized form in the K or MNHN

databases. There are some Sullivant collections available at MyCoPortal, but only six of these represent collections that were examined by Montagne, and none represent collections examined by Berkeley. It is possible that the other collections formerly at K or MNHN have all either gone missing or been sent permanently to other herbaria, but at least some of these were still present in both of these herbaria as of 1982 (Ryvarden 1982). It seems more likely that these are simply not yet digitized.

Compiled Taxa

Combining the output files of the second and third Perl scripts resulted in a list containing 5,686 species-level taxa. After reducing the remaining synonyms by consulting Index Fungorum (2020) and the relevant literature, and adding species that I collected, and species present only in collections databases other than MyCoPortal, this initial list was ultimately narrowed down to a list of 4,865 taxa. There were many synonyms, heterotypic as well as homotypic, in the combined outputs of the second and third Perl scripts, as well as errors in which taxonomic homonyms were included in the output, and errors in which basionyms were listed as current names despite the basionym falling in an obsolete or otherwise incorrect genus. Some of these errors were due to the failure of the Perl scripts to account for the variability of the MycoBank dataset. None of the Perl scripts differentiated between taxonomic homonyms in sorting, and this resulted in species reported in the output files that had not been reported from Ohio in the collections databases. These errors were corrected manually by referring to the original database exports. Many errors in the combined output were due to errors in MycoBank itself, especially incorrect or lacking current taxon name information. Assuming that the final species list (APPENDIX A) was composed only of species already present in the combined outputs of the second and third Perl scripts, 14.44% of the taxa present in the combined output were synonyms

of other species in that list. The real percentage is higher given that species that I collected, and species present in collections databases other than MyCoPortal were added after manual editing of the Perl script output to reduce synonymy.

4,865 species-level taxa were recovered (APPENDIX A) after manual editing of the Perl script output. This includes some infraspecific taxa when they were either found not to be synonymous with the species-ranked taxon that ostensibly contains them or that were not known with certainty to be synonymous with them. *Lactarius volemus* var. *flavus*, for example, represents a taxon distinct from *Lactarius volemus* (now *Lactifluus volemus*) but does not yet have a proper species-level combination (Van de Putte *et al.* 2016). These 4,865 species-level taxa were distributed among 9 phyla, 13 subphyla, and 33 classes following the taxonomy of Tedersoo *et al.* (2018). 229 (4.71%) of these species-level taxa were described from Ohio. 960 (19.7%) represented lichenized taxa. 687 were taxa I collected, of which 250 (5.14% of the total taxa) represented taxa not previously reported from Ohio. 138 collections were sequenced in this study, which represented 85 species-level taxa in addition to collections identified only to the genus, and some of which may represent novel taxa. 21 of the taxa sequenced were taxa for which sequence data had previously been lacking. A list containing all of my Ohio collections is available at https://mushroomobserver.org/species_list/show_species_list/1602. A list consisting only of the collections that have associated sequence data is available at https://mushroomobserver.org/species_list/show_species_list/1589.

In the process of collecting, examining and sequencing Ohio fungi, I have come across a number of collections representing potentially novel species, some of which will be described in upcoming publications. My current estimate is that these represent at least 22 novel species.

These potentially novel taxa will not be treated individually in this work, given that they are not published.

222 species reported in the collections databases analyzed were removed to the list of dubious and excluded taxa (APPENDIX B). These were largely European taxa that have been erroneously reported from eastern North America, but also included other extralimital taxa and *nomina dubia*.

Collections Through Time

The oldest fungal collection from Ohio that could be located was the holotype collection of *Sarcoscypha occidentalis*, collected by L. D. von Schweinitz from modern Tuscarawas County in 1823 (Schweinitz 1832, Stuckey 1966). The collections analyzed thus span a 197-year period from 1823 to 2020. Few collections were made between 1823 and a small collecting burst between 1836 and 1848. This was then followed by a lull in collecting activity from 1849 until 1876. Collecting activity greatly increased in 1876, and there have been at least some fungi collected from Ohio in every year since 1876 (Fig. 3). There have, however, been several lull periods in collecting since 1876: a period between 1943 and 1955, a period between 1985 and 2004, and a period between 2007 and 2012. The most productive year for collecting in Ohio was 2019, with 2,379 collections made, followed by 1902, with 2,105 collections made. It is likely that the number of collections reported for 2020 was lower than the actual number of collections made, given that not all the collections made in 2020 would have been accessioned and digitized by the time the corresponding digital records were downloaded.

There has been significant variation in the total number of fungal collections made per year between 1876 and 2020, but the cumulative trend (Fig. 4) is of a relatively steady increase

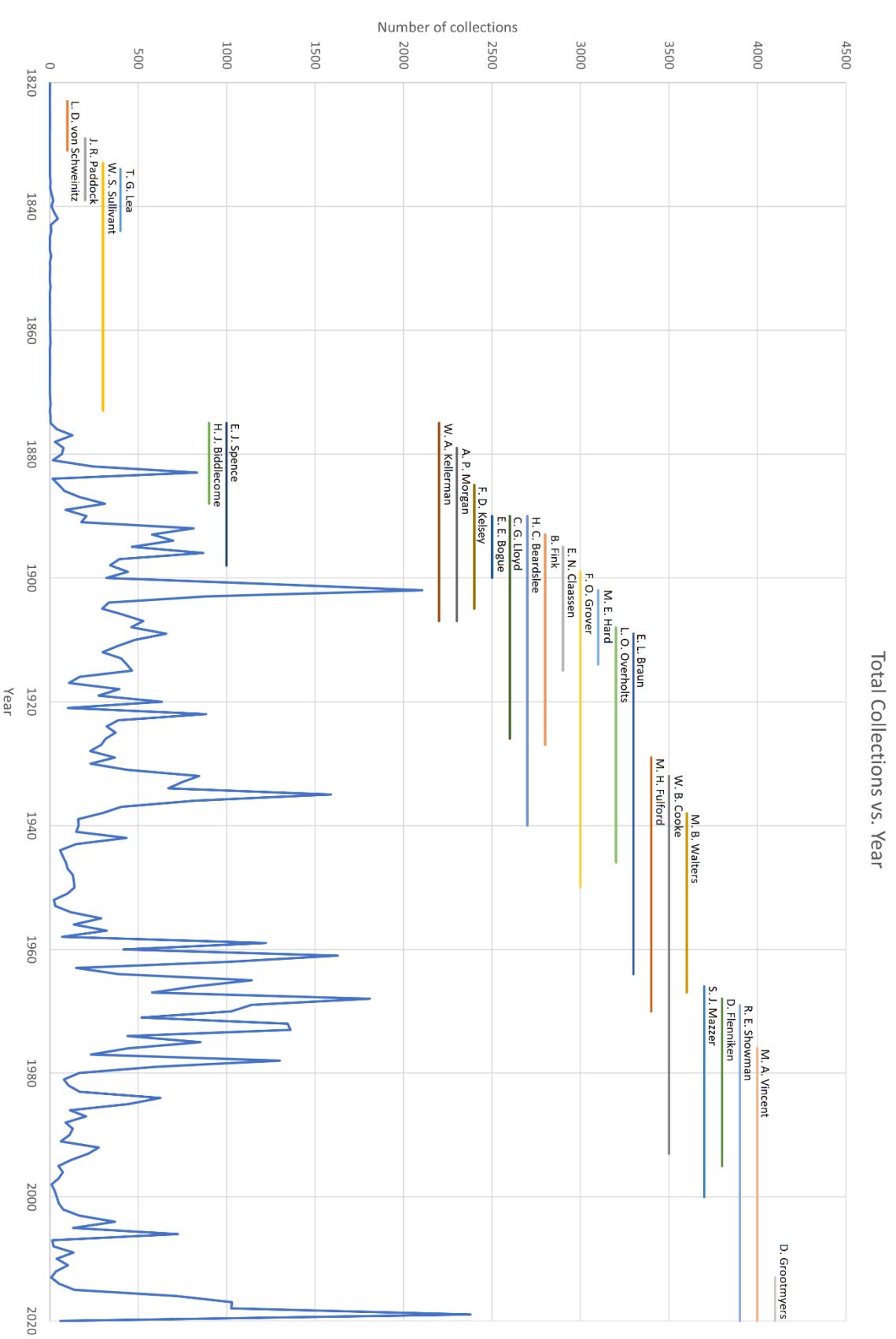
in collections over that same time period. This trend does not hold true for all fungal classes (Fig. 6). The Agaricomycetes and Lecanoromycetes do exhibit a relatively steady increase similar to that of fungi as whole but collecting for Pucciniomycetes appears to have mostly plateaued by the end of the 1920s. Collecting of Pucciniomycetes in Ohio appears to have occurred mainly in two brief bursts, one in the early 1900s, and one in the early 1920s (Fig. 5). Other classes have many fewer collections and have accumulated them at a much slower rate. Some classes have too few collections to discern meaningful collecting trends from the data. There are only seven Agaricostilbomycetes collections representing one species; ten Laboulbeniomycetes collections representing nine species; four Physodermatomycetes collections representing one species; four Zoopagomycetes collections representing two species; two Paraglomeromycetes collections representing one species; three Saccharomycetes collections representing two species; and three Mortierellomycetes collections, none of which have been identified to species. These seven classes are each represented from Ohio by ten or fewer collections.

Sampling of Fungal Classes in Ohio

The Agaricomycetes are the most species-rich class among Ohio collections, followed by the Lecanoromycetes, Dothideomycetes, Sordariomycetes, Leotiomycetes, Pucciniomycetes and Pezizomycetes in that order, then the rest of the classes (Fig. 7). The Agaricomycetes are also the most collections-rich class among Ohio collections, followed by the Lecanoromycetes, Pucciniomycetes, Sordariomycetes, Dothideomycetes, Leotiomycetes and Pezizomycetes in that order, then the rest of the classes (Fig. 7). These seven classes make up the largest proportions of both the total species-level taxa in Ohio and the total collections. The order of the Agaricomycetes, Lecanoromycetes, Sordariomycetes and Pezizomycetes are the same when ranked by number of species-level taxa and by collections. The Pucciniomycetes make up a

larger proportion of the collections (8%) than they do the number of taxa (4%), while the Dothideomycetes and Leotiomycetes make up smaller proportions of the collections (5% and 3% respectively) than they do the number of taxa (12% and 6% respectively). The Agaricomycetes make up a similar proportion of both the number of species-level taxa (41%) and collections (43%), while the Lecanoromycetes make up a smaller proportion of the number of species-level taxa (16%) than they do collections (28%), despite being ranked second in both of those categories. The Sordariomycetes are ranked seventh for both number of species-level taxa and collections but make up a larger proportion of the species-level taxa (11%) than they do the number of collections (6%).

Figure 3. (On following page). Number of fungal collections from Ohio per year deposited in fungal collections databases. Dates range from the time of the earliest fungal collection reported from Ohio (1823) to 2020. Collections from 2021 were not considered. Horizontal bars represent collecting periods of 26 important collectors of Ohio fungi, in ascending vertical order from oldest to most recent with the collector's name placed above the period in which they collected. Collecting periods were determined from first and last dates of collecting per author in the collections databases and/or relevant biographical sources. All pre-1876 collectors are included and post-1876 collectors are treated who contributed 200 or more collections.



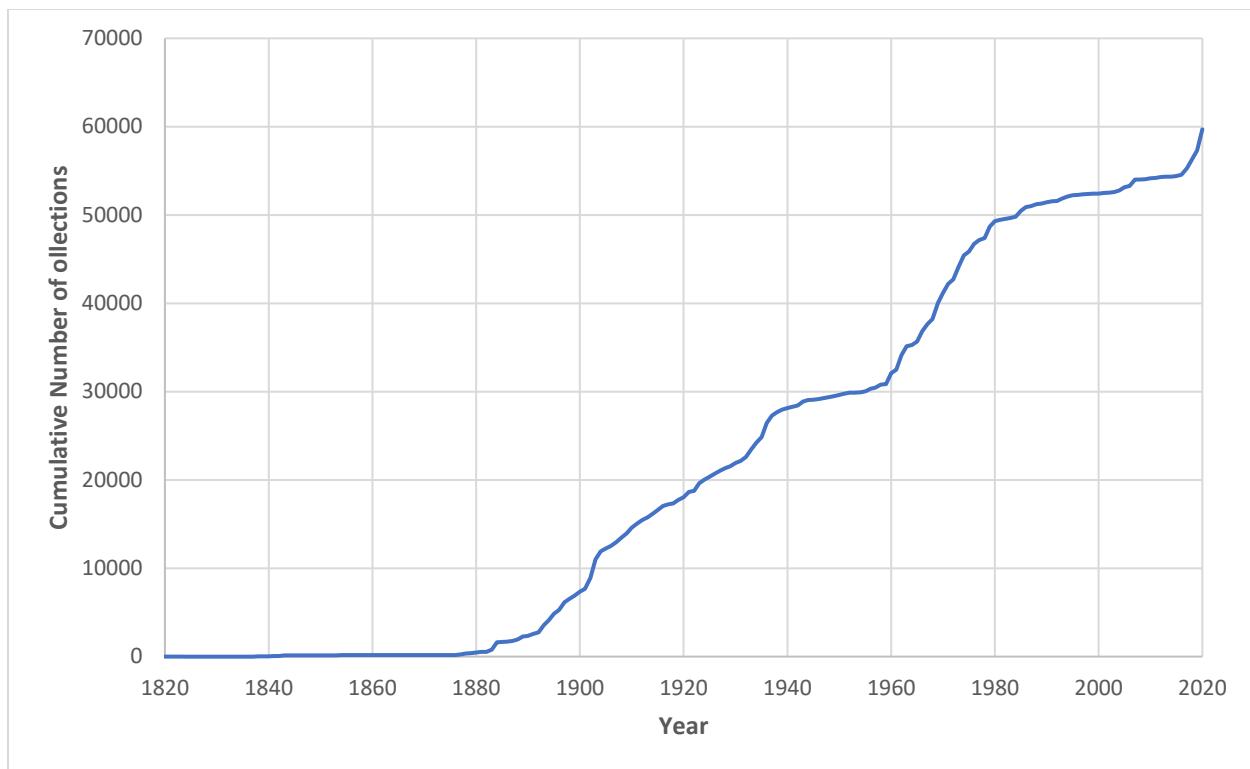


Figure 4. Cumulative number of fungal collections from Ohio per year deposited in fungal collections databases. Dates range from the time of the earliest fungal collection reported from Ohio (1823) to 2020. Collections from 2021 were not considered.

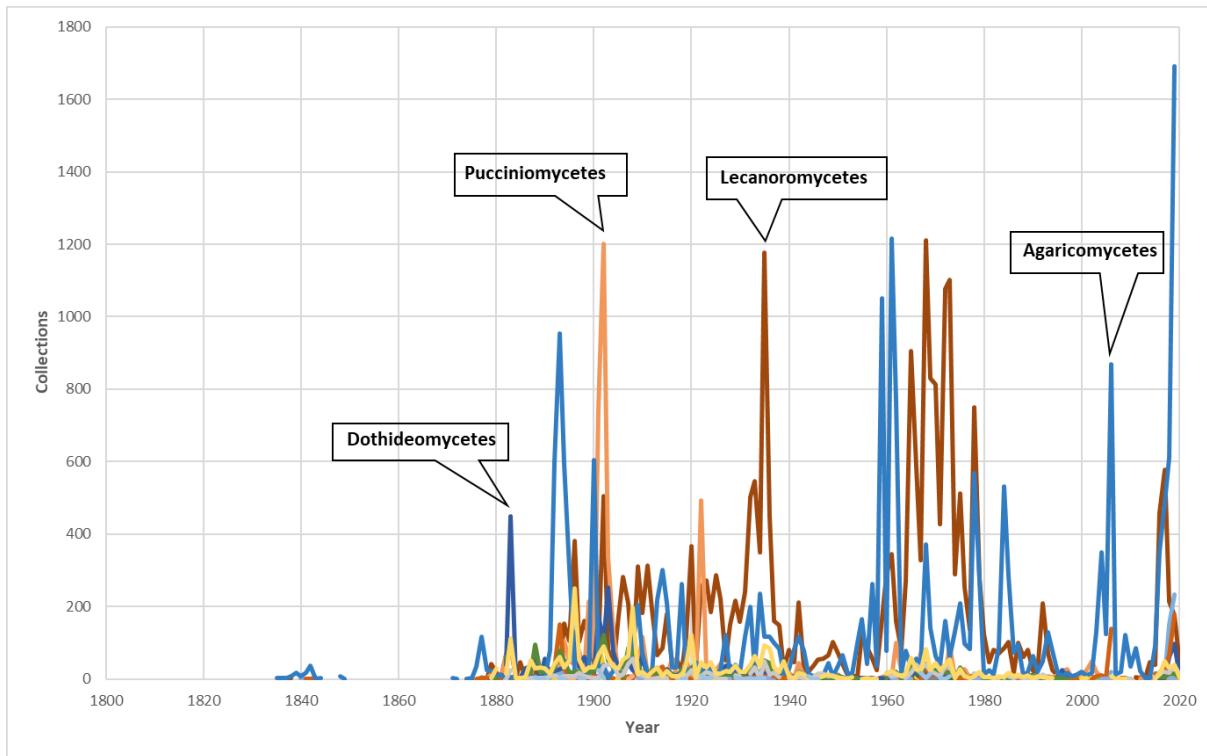


Figure 5. Number of fungal collections from Ohio per fungal classes after Tedersoo *et al.* (2018) per year from 1820 to 2020. The four most prominent classes are labelled on the graph.

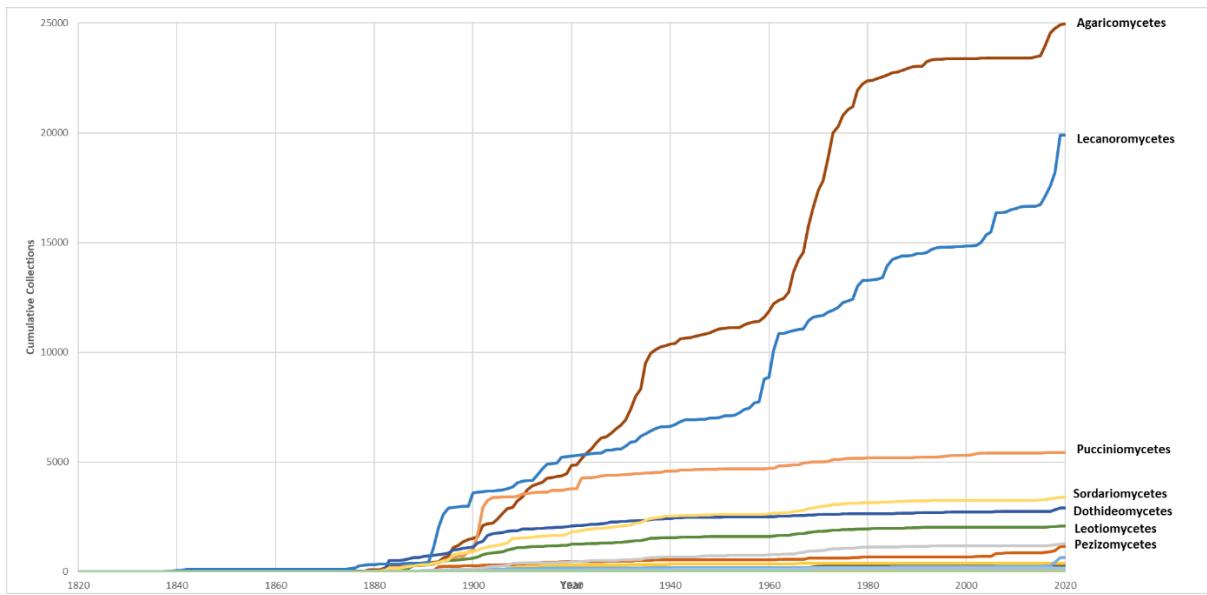
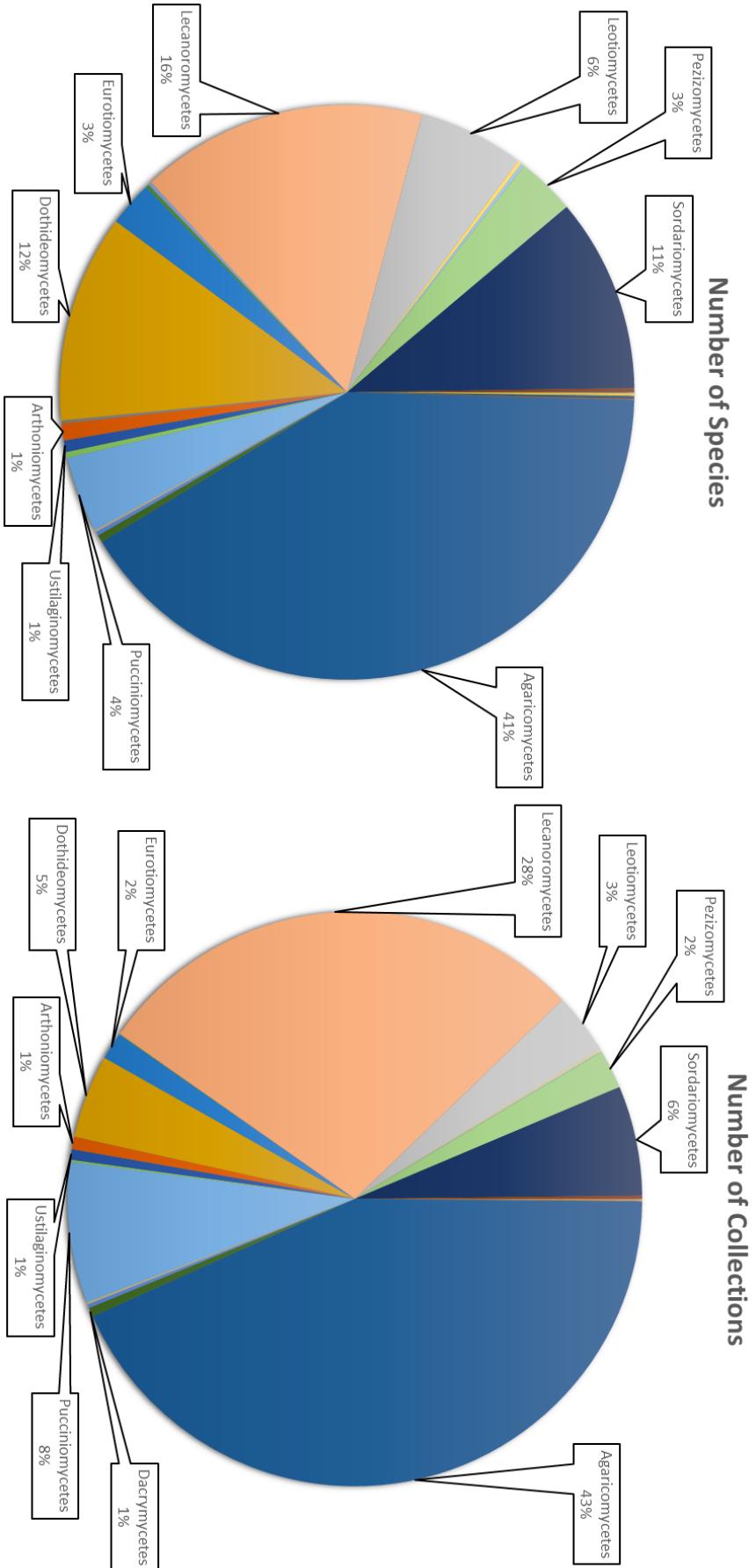


Figure 6. Cumulative number of fungal collections from Ohio per fungal class per year from 1820 to 2020. Classes after Tedersoo *et al.* (2018). The seven most collections-rich classes are labelled on the graph.

Figure 7. (On following page). Proportions of fungal collections and species-level taxa per class. Classes after Tedersoo *et al.* (2018). Only classes making up 1% or greater of the total collections or species are shown.



DISCUSSION

The 4,865 species-level taxa of Ohio fungi reported in this work (APPENDIX A) make up 10.94% of the 44,488 taxa reported for all of North America by Bates *et al.* (2018), assuming that the former is a subset of the latter. Whether Ohio truly contains ~11% of the total North American fungi is unclear, and the list reported by Bates *et al.* (2018) was an unedited list of valid names present in MycoBank applied to Indiana fungal collections digitized in MyCoPortal, which likely included a much higher proportion of synonymous names than the species list reported here. 14.44% of the taxa present in the combined output of the second and third Perl scripts in this study were removed due to being synonymous in order to obtain the final list of 4,865 taxa reported here. Despite their usefulness as references on fungal taxonomy and their acceptance as nomenclatural repositories for fungi (Redhead and Norvell 2012), MycoBank and Index Fungorum both contained errors –with synonymy or otherwise— that required consulting with the primary literature.

Both the number of taxa reported for Ohio in this work and the number reported for North America by Bates *et al.* (2018) are based primarily on the published names assigned to collections in the available online databases. Both lists largely exclude species contained only in non-digitized collections. There are likely collections at OS, BHO, XAL, K and MNHN (Thiers 2020) representing species not included among the list presented in this work (APPENDIX A). Indeed, *Galerina sphagnorum* (Kellerman 1905d), *Geastrum minimum* (Kellerman 1907d), *Hebeloma repandum* (Kellerman 1907h), *Psathyrella hirta* (Kellerman 1907i) and *Tricholoma sulphureum* (Kellerman 1906j) are species treated in the list of Ohio fungi in this work based on collections that were likely deposited at OS that are not present in MyCoPortal or any of the

other collections databases examined here. Given the non-digitized herbarium collections and that 250 species newly reported are from collections I made over the past seven years, 5,000 total species of fungi in Ohio would be a very conservative estimate.

3,144 species of vascular plants have been reported from Ohio (Riley, Vincent, and Widrlechner 2020). That there would be more species of fungi than vascular plants in Ohio is not especially surprising given that an oft-cited study by Hawksworth (1991) proposed an estimate of 1.5 million species of fungi worldwide and a 6:1 ratio of fungal species to vascular plant species based largely on a comparison between the number of species of both groups reported from the British Isles. Assuming this 6:1 ratio, the total number of fungal species in Ohio is estimated at 18,864. Other studies of fungal diversity worldwide and its relationship to plant diversity have arrived at estimated fungal species to plant species ratios of between 1.9:1 and 48:1, with the majority of recent studies proposing ratios greater than than 6:1 (Fröhlich and Hyde 1999, Bass and Richards 2011, Blackwell 2011, Hawksworth 2012, B. Wu *et al.* 2019). Schmit and Mueller (2007) proposed a conservative estimate of 750,000 species of fungi worldwide, which suggests a roughly 3:1 ratio of species of fungi to species of vascular plants. Using this ratio, the number of fungal species in Ohio is conservatively estimated at about 9,400 species. The number of species reported in this work is roughly 50% of this conservative estimate of the expected fungal diversity of Ohio, which suggests that there is still much work to be done in inventorying Ohio's fungal diversity.

Some of the species described from Ohio are so far known only from Ohio, e.g., *Helotium delectabile* (Morgan 1902b). These are mostly obscure taxa, and whether any of them represent Ohio endemics is yet to be determined. It is possible that at least some of these are synonyms of other more well-known species, but this is not likely to be true of all species

currently reported only from Ohio. Determining whether there are any fungi truly endemic to Ohio would require type studies, and efforts to locate these species in neighboring states.

Comparable inventories of all species of fungi are lacking for neighboring states. Bates *et al.* (2017) reported 1,410 species-level taxa of non-lichenized macrofungi from Indiana, but their exclusion of lichenized fungi and microfungi – defined in a rather idiosyncratic way: *Hypoxylon* is treated as a microfungus while *Xylaria* is treated as a macrofungus – make it difficult to compare the currently known fungal diversity of Ohio reported in this work to that of Indiana, or to determine what proportion of fungal species diversity is shared between Ohio and Indiana.

Further processing of data available on Ohio fungi in the collections databases could be used to determine fungi that may be rare in Ohio, and to determine potential candidates for IUCN redlisting or listing as state or federally endangered species. This could potentially be used to conserve habitats in which rare fungi occur in Ohio in the future. The 1973 Endangered Species Act does apply to fungi, but this has not yet been applied in practice (Davoodian 2015, Davoodian 2016). Only two species of fungi are currently listed as federally endangered under the Endangered Species Act, *Cladonia perforata* and *Gymnoderma lineare* (Davoodian 2015), and neither of these species is known from Ohio.

Some of the species among the 4,685 reported from Ohio in this work (APPENDIX A) represent introduced or invasive species. It is often difficult to determine whether a fungal species is invasive due to a lack of knowledge of fungal diversity and the often-ephemeral nature of fungal fruiting bodies (Rossman 2008). Despite this, there are at least some species for which their non-native status is either known or alleged, most of which are plant-pathogenic species. *Ophiostoma ulmi*, one of the fungi responsible for Dutch elm disease, and *Cryphonectria parasitica*, the fungus responsible for Chestnut blight, are both invasive fungi that have caused

extensive damage to the native forest trees of Ohio (Karnosky 1979, Anagnostakis 1987, Schwadron 1995). *Colletotrichum dracaenophilum*, newly reported from Ohio in this work, is a species recently introduced from Asia (Sharma *et al.* 2014). It could be considered to be invasive given its parasitism of a commercially cultivated host plant, *Dracaena sanderiana* (lucky bamboo). Its host, however, is also not native to Ohio.

Leratiomyces ceres, newly reported from Ohio in this study, is a species that may have originally been native to Australia that was introduced to Europe and North America in the 20th century (Halama and Górká 2019). It is not clear what impact this species has had on native species, and it is so far only known from man-made habitats in Ohio, *i.e.*, mulch beds.

Radulomyces copelandii, has also been alleged to be a recent introduction from Asia (Ginns and Millman 2011), but the recent description of *R. paumanokensis*, a similar species also present in both North American and Asia (Wang *et al.* 2018) has made it less clear whether *R. copelandii* was truly introduced.

This study reports an earlier start date –1823— for fungal collecting in Ohio than most earlier studies except for those that dealt specifically with L. D. von Schweinitz and his collecting trips to eastern Ohio (Schweinitz 1832, Stuckey 1966). That the earliest fungal collection from Ohio is a L. D. von Schweinitz collection from 1823 contradicts Kellerman (Kellerman and Werner 1894) and Stover (1912), who both believed T. G. Lea to be the first to collect fungi from Ohio. J. R. Paddock’s collecting activity also predates that of Lea (Lea 1849, Stuckey 1984). It is possible that W. S. Sullivant may have also begun collecting before Lea (Meyer 1983), but the collections data available does not support this, and Stover (1912) suggests that Sullivant’s fungal collecting may have begun in the 1850s instead.

There have been many collectors of fungi in Ohio since 1823, but periods of intensive fungal collecting (Fig. 3) can largely be attributed to the activity of a relatively small number of collectors at any given time. Since 1875, there have been roughly 22 collectors who have each individually contributed over 200 specimens to herbaria over their lifetimes. 2019 was the year with the greatest number of fungal collections, and this can largely be attributed to the activity of R. Showman, M. A. Vincent and myself. The second highest burst of collecting activity occurred in 1902, and this can be largely attributed to the actions of W. A. Kellerman, A. P. Morgan, F. D. Kelsey, C. G. Lloyd, H. C. Beardslee, B. Fink, E. N. Claassen, F. O. Grover and M. E. Hard (Fig. 3). It is worth noting that each collector's collecting output may vary significantly over their lifetime, and a relatively large number of collectors being active over a given period of time does not necessarily mean that more fungal collections will accumulate than in periods with fewer collectors. For example, only 24 collections were made in 1952 despite falling during the collecting periods of 5 major collectors (over 200 collections per collecting period), while 1,810 collections were made in 1968 when 4 major collectors were active. The collecting periods reported in this work are also based on the first and last collection dates for each author available in the collections databases examined or in the literature, and that a given year falls within an author's collection period does not necessarily mean that author collected in that year, or indeed that they were even present in Ohio at the time.

The relative absence of major collectors in Ohio may explain some of the lull periods in collecting between 1823 and the present. The lull period between 1849 and 1876 is likely due to the death of T. G. Lea at the start of this period (Lea 1849), after which W. S. Sullivant appears to have been the only collector active in Ohio until 1875. H. J. Biddlecome and E. J. Spence began collecting in 1875 and were the only collectors active in Ohio until they were joined by W.

A. Kellerman in 1876, when the three of them began the burst in collecting of the late 19th and early 20th centuries in Ohio. The next major lull period lasted from 1943 to 1955. It is tempting to suggest that this was due to World War II. This may be partially true, but the war appears to have been one of a number of different factors that led to this decrease in collecting activity. Of the six collectors active during this period, only W. B. Cooke is known to have been drafted, and would have been out-of-state (Vincent, Powell and Burdsall 1994). L. O. Overholts died in 1946 (Kern 1948), and his death is one of the other factors involved in the 1943-1955 lull. F. O. Grover continued collecting during the war and was 75 years old at the start of this lull period, much too old for the draft (Miller 1968). His collecting activity appears to have decreased due to old age. E. L. Braun and M. H. Fulford were both women and would not have been drafted, although it is possible that the war impacted their collecting outputs in less obvious ways. They were also not especially old, and both were employed as instructors at the University of Cincinnati during this period (Durrell 1981, Stuckey 1992, Stuckey 2002). It is not clear why they collected relatively little during this time period. Very little biographical information could be found for M. B. Walters, the last of the six collectors active between 1943 and 1955. He lived in Cleveland and was a member of the Mycological Society of America (Beneke 1957). Beyond these facts and that he collaborated with A. H. Smith (Smith and Walters 1943, Smith and Walters 1944), very little appears to be known about him, including whether he served during World War II. The causes for the lull periods from 1985 to 2004 and from 2007 to 2012 are less clear.

One major confounding factor for analyzing historical collections data from Ohio is that collection date information is missing for many collections, most of these in MyCoPortal. Collections in the index of the C. G. Lloyd herbarium at BPI are especially lacking in date

information. The number of collections per year over the period that Lloyd was active – the 1890s to 1926 (Fitzpatrick 1927) – are under-reported in the data presented here as a result. Most W. S. Sullivant collections present in MyCoPortal, as well as some L. D. von Schweinitz collections, are also lacking date information. The number of collections per year between 1823 and 1873 is also likely under-reported because of this (Stuckey 1966, Meyer 1983). This is in addition to the collections that have not been digitized at OS, BHO, XAL, K and MNHN.

Species reported from Ohio in culture collections databases were not considered in this work. This could potentially be a valuable source of information of additional data on species present in Ohio. Environmental sequences were also not considered and could also provide data on species present in Ohio that have not yet been observed fruiting.

That the Agaricomycetes and Lecanoromycetes would be the classes with the highest numbers of both species and collections from Ohio is not especially surprising, given that these classes have many large, charismatic and long-lived species and have been treated in both the scientific and popular literature, where most other classes of fungi in Ohio have not been treated in the literature beyond notes on the collection or naming of individual species. Seven classes are each represented from Ohio by ten or fewer collections: Agaricostilbomycetes, Laboulbeniomycetes, Physodermatomycetes, Zoopagomycetes, Paraglomeromycetes, Saccharomycetes, and Mortierellomycetes. It is possible that some of these classes are legitimately rare or not particularly diverse in Ohio. Nonetheless, attempts to collect representatives of these classes in Ohio are likely to locate many additional species of fungi not treated in this work.

The Lecanoromycetes make up a smaller proportion of the number of species-level taxa, than they do collections, which suggests that Lecanoromycetes are especially well-sampled in

Ohio. This is not surprising given that there are multiple treatments of macrolichens in Ohio containing information on county-level records for individual species (Taylor 1967, Taylor 1968, Showman and Flenniken 2004), as well as a brief popular guide to macrolichens of Ohio that includes a heatmap of macrolichen species collected per county in Ohio (Showman and Klips 2015). While continued sampling of macrolichens is still likely to result in additional species being added to the fungi reported from Ohio, sampling of microlichens and lichenized fungi in orders other than the Lecanoromycetes is likely to add more species than continued sampling of Lecanoromycetes.

The Pucciniomycetes appear to be another relatively well-sampled class, but most of the collecting of Pucciniomycetes in Ohio occurred before 1930. This predates the advent of molecular phylogenetics and continued collecting of Pucciniomycetes will likely reveal some overlooked or cryptic species. For example, *Coleosporium montanum* is newly reported from Ohio in this work based on a recent collection of mine.

The Dothideomycetes, Leotiomycetes and Sordariomycetes are all represented by greater proportions of the total collections from Ohio than they are the total species from Ohio, and more collecting of fungi of these classes will likely result in the addition of many new species to the fungi of Ohio.

The construction of heat maps for collection density and species density like those that currently exist for the macrolichens of Ohio (Showman and Klips 2015) for fungi overall and for individual classes of fungi would be of great use in determining which regions or counties of Ohio are under-sampled. This could be done by using the geolocation data in the available fungal collections databases, especially MyCoPortal.

Constructing a species accumulation curve from the mycological collections data would also be useful in order to examine the progress of mycological work in Ohio through time beyond merely examining the accumulation of collections. This would require assigning current names to all individual collections, and much manual editing due to the prevalence of typos in MyCoPortal and other collections databases.

The list of species-level taxa and notes on these taxa presented in this work (APPENDIX A) could be used to develop more modern and thorough field guides for Ohio fungi. Macrolichens are well covered compared to other groups in Ohio already, both in the proportion of collections and species they make up, and the number of guides devoted to them (*e.g.*, Taylor 1967, Taylor 1968, Showman and Flenniken 2004, Showman and Klips 2015). Other groups are less well-covered in the literature. A fairly extensive body of literature on the plant pathogenic fungi of Ohio (O’Kane 1910, Ellett 1957, Ellett 1966, Ellett 1989) already exists, and the additional data presented here could be used to develop an update of C. W. Ellet’s “Ohio plant disease index” (Ellett 1989). Much work is left to be done on the Agaricomycetes of Ohio, but the list of species-level taxa presented in this work could serve as a starting point for future field guides to the Agaricomycetes of Ohio –or non-lichenized macromycetes more generally— more thorough than Rhodes *et al.*’s (2013) brief treatment and more modern than Hard and Gilliam’s (1908) treatment.

Given that the 4,685 species-level taxa reported in this work make up only about 50% of the 9,400 species conservatively estimated to occur in Ohio in this work, that 250 species-level taxa are reported as new to the state in this work, and that potentially novel taxa were also collected, there is certainly much work to be done in inventorying Ohio’s fungi.

Sequence and collection data generated over the course of this project has been used in four published studies so far (Ramírez-Cruz *et al.* 2019, Eberhardt *et al.* 2020, Hu *et al.* 2020, Van Vooren 2021), which suggests that inventorying of Ohio's fungi will continue to be useful to researchers working on fungal systematics and other areas of fungal biology, and not necessarily just to those working on Ohio fungi.

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APPENDIX A – Checklist of Ohio Fungi

Annotation Key

Taxa are listed in alphabetical order. Taxon names are followed by author information from MycoBank (2020). Curly brackets follow author information and contain codes indicating notable aspects of the taxa and specific collections. The codes are as follows:

! = Newly collected this study.

O = Described from Ohio.

L = Lichen.

B = Reported in the literature but records are absent in MyCoPortal, CNALH and other collections databases analyzed.

H = Records from herbarium databases other than Mycoportal or CNALH.

C = Collected this study.

S = Sequenced this study.

* = Taxon sequenced for the first time as a result of this study.

= Sequence data from available from other sources.

Other notes on the taxa follow the curly brackets. Herbarium codes are after Index Herbariorum (Thiers 2020) and a collection number preceded by “MO#” indicates that a collection with a Mushroom Observer number and associated metadata available under the Mushroom Observer entry of that number.

Checklist

Abortiporus biennis (Bulliard) Singer {C}

Abrothallus caerulescens I. Kotte {L}

Abrothallus cladoniae R. Santesson & D. Hawksworth {L}

Abrothallus parmeliarum (Sommerfelt) Arnold {L}

Absconditella delutula (Nylander) Coppins & H. Kilias {L}

Absconditella lignicola Vězda & Pisút {L}

Absconditella sphagnorum Vězda & Poelt {L}

Acanthohelicospora scopula (Peck) Rossman & W.C. Allen

Acanthostigma atrobarbum (Cooke & Ellis) Ellis & Everhart

Acanthostigma dispar Morgan {O}

Acanthostigma perpusillum De Notaris

Acarospora americana H. Magnusson {L}

Acarospora cervina (Acharius) A. Massalongo {L}

Acarospora fuscata (Schrader) Arnold {L}

Acarospora moenium (Vainio) Räsänen {L}

Acarospora nodulosa (Dufour) Hue {L}

Acarospora obpallens (Nylander) Zahlbruckner {L}

Acarospora oreophila K. Knudsen {L}

Acarospora schleicheri (Acharius) A. Massalongo {L}

Acarospora sphaerosperma R.C. Harris & K. Knudsen {L}

Acarospora veronensis A. Massalongo {L}

Acmosporium botryoideum Corda

Acremonium fusidioides (Nicot) W. Gams

Acremonium luzulae (Fuckel) W. Gams

Acrocordia cavata (Acharius) R.C. Harris {L}

Acrocordia gemmata (Acharius) A. Massalongo {L}

Acrocordia megalospora (Fink) R.C. Harris {L}

Acrocordia sphaeroides (Wallroth) Arnold {L}

Acrogenospora sphaerocephala (Berkeley & Broome) M.B. Ellis

Acrospermum compressum Tode

Acrostalagmus albus Preuss

Acrostalagmus annulatus (Berkeley & Broome) K.A. Seifert

Acrostalagmus luteoalbus (Link) Zare, W. Gams & Schroers

Acrostalagmus nodosus Preuss

Acrostalagmus parasitans Corda

Adelphella babingtonii (Berkeley & Broome) Pfister, Matočec & I. Kušan

Aecidium dakotense Griffiths

Aecidium osmorrhizae Peck

Aegerita caesia Persoon

Agaricus abruptibulbus Peck

Agaricus angustilamellatus Montagne {O}

Agaricus arvensis Schaeffer

Agaricus augustus Fries

Agaricus bitorquis (Quélet) Saccardo {C}

Agaricus campestris Linnaeus

Agaricus comptulus Fries

Agaricus diminutivus Peck

Agaricus diospyros B. Ortiz, Kerrigan & Skulan {!, C}

I identified a collection from Stonelick State Park (MO#302491) as this species based on morphology. This identification should be treated as tentative pending ITS sequence data.

Agaricus leptocaulis Kerrigan {#}

An ITS sequence was obtained for a Dan Molter collection of this species from Strouds Run State Park (MO#24015).

Agaricus micromegethus Peck

Agaricus morganii Peck {O}

Agaricus placomyces Peck {C}

This name has been misapplied to other gracile *Agaricus* species in eastern North America including *A. pocillator*, *A. leptocaulis*, *A. kriegeri* and *A. approximans* (Kerrigan 2016). Ohio collections identified as *A. placomyces* likely represent the true *A. placomyces* as well as these other similar species.

Agaricus pocillator Murrill

Agaricus silvaticus Schaeffer

Agaricus subrufescens Peck

Agaricus sylvicola (Vittadini) Peck

Agaricus xylogenus Montagne {O}

Poorly known species but likely a true *Agaricus* (Murrill & Kern 1914)

Agonimia flabelliformis J. Halda, Czarnota & Guz.-KrzemiÅ„ska {L}

Agonimia gelatinosa (Acharius) M. Brand & Diederich {L}

Agonimia opuntiella (Buschardt & Poelt) Vězda {L}

Agrocybe acericola (Peck) Singer {C}

Agrocybe arvalis (Fries) Heim & Romagnesi {C}

Agrocybe dura (Bolton) Singer

Agrocybe firma (Peck) Singer {C}

Agrocybe pediades (Fries) Fayod {C}

Agrocybe praecox (Persoon) Fayod

Agrocybe pusiola (Fries) R. Heim

Agrocybe recalva (Lasch) Singer

Agyrium rufum (Persoon) Fries {L}

Akanthomyces aranearium (Petch) Mains {!, C}

A collection of mine from Highbanks Metro Park (MO#323220) is a good match for this species morphologically (Mains 1950b, Mains 1958). This collection, and this species generally, have not yet been sequenced and it is unclear whether it truly belongs in *Akanthomyces* or in some other genus in the Cordycipitaceae *sensu lato* (Shrestha *et al.* 2019).

Akanthomyces johnsonii (Massee) Vincent, K.A. Seifert & Samson

Albatrellus confluens (Albertini & Schweinitz) Kotlaba & Pouzar

Alectoria sarmentosa (Acharius) Acharius {L}

Aleuria aurantia (Persoon) Fuckel {C}

Aleuria bicucullata Boudier

Aleuria cestrica (Ellis & Everhart) Seaver {O}

Aleurina fuscocarpa (Ellis & Holway) Saccardo & P. Sydow

Aleurocystidiellum disciforme (DeCandolle) Tellería

Aleurodiscus amorphus (Persoon) J. Schröter

Aleurodiscus aurantius (Persoon) J. Schröter {H}

C. G. Lloyd collection (F354556) at S.

Aleurodiscus oakesii (Berkeley & M.A. Curtis) Patouillard {C}

Allodus podophylli (Schweinitz) Arthur {C}

Alnicola paludosa (Peck) Singer

Alternaria alternata (Fries) Keissler

Alternaria atra (Preuss) Woudenberg & P.W. Crous

Alternaria brassicae (Berkeley) Saccardo

Alternaria brassicae var. *nigrescens* Peglion

Alternaria carotiincultae E.G. Simmons {O}

Alternaria catalpae (Ellis & G. Martin) P. Joly

Alternaria cheiranthi (Libert) P.C. Bolle

Alternaria crassa (Saccardo) Rands

Alternaria culmorum (Cooke & Harkness) P. Joly

Alternaria dianthi J.V. Almeida & Sousa da Câmara

Alternaria embellisia Woudenberg & P.W. Crous

Alternaria iridicola (Ellis & Everhart) J.A. Elliott

Alternaria nobilis (Vize) E.G. Simmons

Alternaria panax Whetzel

Alternaria polytricha (Cooke) E.G. Simmons

Alternaria saponariae (Peck) Neergaard

Alternaria solani Sorauer

Alternaria tenuissima (Kunze) Wiltshire

Alysidium resinae (Fries) M.B. Ellis

Alyxoria varia (Persoon) Ertz & Tehler {L}

Amandinea dakotensis (H. Magnusson) P.F. May & Sheard {L}

Amandinea polyspora (Willey) E. Lay & P.F. May {L}

Amandinea punctata (Hoffmann) Coppins & Scheidegger {L}

Amanita abrupta Peck {C}

Amanita aestivalis Singer ex Singer

Amanita agglutinata (Berkeley & M.A. Curtis) Murrill

Amanita arkansana H.R. Rosen {!, C}

A collection of mine from Highbanks Metro Park (MU 000296745) is identified as this species. Some Ohio collections in MyCoPortal identified as *A. caesarea* may also represent this species instead (Bunyard and Justace 2020, Tulloss 2020)

Amanita baccata (Fries) Gillet

Ohio collections identified as this species may not represent the true *A. baccata* but this group is poorly known in North America. This group is in need of restudy (Bunyard and Justice 2020).

Amanita bisporigera G.F. Atkinson {C}

Amanita brunnescens G.F. Atkinson {C}

Amanita ceciliae (Berkeley & Broome) Bas

Amanita chlorinosma (Peck) Lloyd

Amanita cinereoconia G.F. Atkinson

Amanita crocea (Quélet) Singer

Amanita daucipes (Saccardo) Lloyd {C}

Amanita eliae Quélet

Amanita elongata Peck

Amanita farinosa Schweinitz {#}

An ITS sequence was obtained for a Crystal Davidson collection from Pierce Township in Clermont County (MO#377799). A BLAST search on this sequence supports the identification of MO#377799 as *A. farinosa*.

Amanita flavoconia G.F. Atkinson {C}

Amanita flavorubescens G.F. Atkinson {C}

Amanita frostiana (Peck) Saccardo

Amanita fulva Fries

Amanita lavendula (Coker) Tulloss, K.W. Hughes, Rodriguez-Caycedo & L.V. Kudzma {C, S}

Some Ohio collections identified as this species may represent the provisionally named cryptic species *A. corneliihybrida* K.W. Hughes, Tulloss & Rodrig. Cayc. *nom. prov.* instead (Hughes, Tulloss and Petersen 2018; Tulloss 2020).

Amanita magnivelaris Peck {C}

Amanita multisquamosa Peck

Some Ohio collections identified as this species may represent *A. velatipes* instead (Bunyard and Justice 2020).

Amanita muscaria var. *guessowii* Vesely {!, C, S}

Four collections of mine (MU 000296901, MU 000296907, MO#372147 and MO#395763) are identified as this species. This is a very common species in Ohio, which is not the same as the European *A. muscaria* *sensu stricto* (Bunyard and Justice 2020). Ohio collections identified as *A. muscaria* likely represent this taxon.

Amanita onusta (Howe) Saccardo

Amanita parcivolvata (Peck) J.E. Gilbert

Amanita pelioma Bas

Amanita praegraveolens (Murrill) Singer

Amanita ravenelii (Berkeley & Broome) Saccardo

Amanita rhopalopus Bas {C}

Amanita russuloides (Peck) Saccardo

Amanita solaniolens H.L. Stewart & Grund {!, C}

A collection of mine from Highbanks Metro Park (MU 000296746) is identified as this species. Some Ohio collections identified as the similar *A. brunnescens* may represent this species instead (Bunyard and Justice 2020).

Amanita spreta (Peck) Saccardo

Amanita subsolitaria (Murrill) Murrill

Amanita vaginata (Bulliard) Lamarck

Several other *Amanita* species have likely been reported under this name in Ohio (Bunyard and Justice 2020).

Amanita velatipes G.F. Atkinson {!, C}

A collection of mine from Gahanna (MU 000296773) is identified as this species. Some Ohio collections identified as *A. gemmata*, *A. pantherina* and *A. multisquamosa* may represent this species instead (Bunyard and Justice 2020).

Amanita volvata (Peck) Lloyd

Amaurodon viridis (Albertini & Schweinitz) J. Schröter

Ambrosiella cleistominuta C. Mayers & T.C. Harrington {O}

Amerosporium atrum (Fuckel) Höhnel

Ampelomyces quisqualis Cesati

Amphilogia gyroza (Berkeley & Broome) Gryzenhout, H.F. Glen & M.J. Wingfield

Amphinema byssoides (Persoon) J. Eriksson

Amphiporthe raveneliana (Thümen & Rehm) M.E. Barr

Amphisphaeria bufonia (Berkeley & Broome) Cesati & De Notaris

Ampulloclitocybe clavipes (Persoon) Redhead, Lutzoni, Moncalvo & Vilgalys {C}

Amyloathelia amylacea (Bourdöt & Galzin) Hjortstam & Ryvarden

Amylocorticiellum molle (Fries) Spirin & Zmitrovich

Amylocorticium canadense (Burt) J. Eriksson & Weresub {!, C}

A collection of mine from Zaleski State Forest (MO#414701) is identified as this species.

Amylocorticium cebennense (Bourdöt) Pouzar

Amylostereum chailletii (Persoon) Boidin {C}

Anaptychia ciliaris (Linnaeus) Flotow {L}

Anaptychia palmatula (Michaux) Vainio {L}

Anaptychia runcinata (Withering) J.R. Laundon {L}

Anellaria sepulchralis (Berkeley) Singer

Angelina rufescens (Schweinitz) Duby {C, S}

Anisomeridium biforme (Borrer) R.C. Harris {L}

Anisomeridium carinthiacum (J. Steiner) R.C. Harris {L}

Anisomeridium distans (Willey) R.C. Harris {L}

Anisomeridium leucochlorum (Müller Arg.) R.C. Harris {L}

Anisomeridium polypori (Ellis & Everhart) M.E. Barr {L}

Annulohypoxylon annulatum (Schweinitz) Y.M. Ju, J.D. Rogers & H.M. Hsieh

Annulohypoxylon archeri (Berkeley) Y.M. Ju, J.D. Rogers & H.M. Hsieh

Annulohypoxylon michelianum (Cesati & De Notaris) Y.M. Ju, J.D. Rogers & H.M. Hsieh

Annulohypoxylon stygium (Léveillé) Y.M. Ju, J.D. Rogers & H.M. Hsieh

Annulohypoxylon thouarsianum (Léveillé) Y.M. Ju, J.D. Rogers & H.M. Hsieh

Annulohypoxylon truncatum (Starbäck) Y.M. Ju, J.D. Rogers & H.M. Hsieh {C}

Anomoloma myceliosum (Peck) Niemelä & K.H. Larsson

Anteaglonium abbreviatum (Schweinitz) Mugambi & Huhndorf

Anteaglonium parvulum (W.R. Gerard) Mugambi & Huhndorf {C}

Antennularia quercina (Persoon) E. Müller

Anthostoma amoenum (Nitschke) Saccardo

Anthostoma phaeospermum (Ellis) Saccardo

Anthostomella nigroannulata (Berkeley & M.A. Curtis) Saccardo

Anthracobia macrocystis (Cooke) Boudier

Anthracobia melaloma (Albertini & Schweinitz) Boudier

Anthracocystis cenchri (Lagerheim) McTaggart & R.G. Shivas

Anthracoidea caricis (Persoon) Brefeld

Antrodia heteromorpha (Fries) Donk

Antrodia morganii (Lloyd) V. Spirin & J. Vlasák {O}

Antrodia oleracea (R.W. Davidson & Lombard) Ryvarden

Antrodia sinuosa (Fries) P. Karsten

Antrodia xantha (Fries) Ryvarden

Antrodiella incrustans (Berkeley & M.A. Curtis ex Cooke) Ryvarden {C}

Antrodiella semisupina (Berkeley & M.A. Curtis) Ryvarden {C}

Antromyces copridis Fresenius

Anzia colpodes (Acharius) Stizenberger {L}

Apiognomonia errabunda (Roberge) Höhnel

Apiognomonia veneta (Saccardo & Spegazzini) Höhnel

Apioperdon pyriforme (Schaeffer) Vizzini {C}

Apiosporina collinsii (Schweinitz) Höhnel

Apiosporina morbosa (Schweinitz) Arx

Aplosporella lactucicola (Kellerman) Petrak & Sydow {O}

Aplosporella linderae (Peck) Petrak

Aplosporella rosarum (Cooke & Ellis) Petrak

Aplosporella tiliacea (Peck) Petrak {O}

Aporpium caryae (Schweinitz) Teixeira & D.P. Rogers

Aposphaeria epileuca (Berkeley) Saccardo

Aposphaeria inconspicua (Desmazières) Saccardo

Aposphaeria labens (Saccardo) Saccardo

Aposphaeria ohiensis Ellis & Everhart {O}

Aposphaeria seriata (Persoon) Saccardo

Aquacidia trachona (Acharius) Aptroot {L}

Arachnion album Schweinitz

Arachnocrea stipata (Fuckel) Z. Moravec

Arachnopeziza aurata Fuckel {C}

Arachnopeziza aurelia (Persoon) Fuckel

Arachnopeziza candidofulva (Schweinitz) Korf

Arachnopeziza delicatula Fuckel

Arachnopeziza trabinelloides (Rehm) Korf {!, C}

A collection of mine from Madison Township in Perry County (MO#364255) is identified as this species. This collection is pictured in Fig. 2A.

Arctoparmelia separata (Th. Fries) Hale {L}

Argynna polyhedron (Schweinitz) Morgan

Armillaria mellea (Vahl) P. Kummer

Armillaria tabescens (Scopoli) Emel

Arrhenia elegans (Persoon) Redhead, Lutzoni, Moncalvo & Vilgalys

Arrhenia epichysium (Persoon) Redhead, Lutzoni, Moncalvo & Vilgalys

Arrhenia oniscus (Fries) Redhead, Lutzoni, Moncalvo & Vilgalys

Arrhenia retiruga (Bulliard) Redhead {C}

Arrhenia rustica (Fries) Redhead, Lutzoni, Moncalvo & Vilgalys

Arrhenia spathulata (Fries) Redhead

Arrhytidia involuta (Schweinitz) Coker

Arthonia apatetica (A. Massalongo) Th. Fries {L}

Arthonia atra (Persoon) A. Schneider {L}

Arthonia caudata Willey {L}

Arthonia cytisi A. Massalongo {L}

Arthonia dispersa (Schrader) Nylander {L}

Arthonia excipienda (Nylander) Nylander {L}

Arthonia helvola Nylander {L}

Arthonia lapidicola (Taylor) Branth & Rostrup {L}

Arthonia polymorpha Acharius {L}

Arthonia punctiformis Acharius {L}

Arthonia pyrrhuliza Nylander {L}

Arthonia quintaria Nylander {L}

Arthonia radiata (Persoon) Acharius {L}

Arthonia rupicola Fink ex J. Hedrick {O, L}

Arthonia spadicea Leighton {L}

Arthonia susa R.C. Harris & Lendemer {L}

Arthopyrenia cerasi (Schrader) A. Massalongo {L}

Arthothelium beccarianum Baglietto {L}

Arthothelium ruanum (A. Massalongo) Körber {L}

Arthothelium spectabile A. Massalongo {L}

Arthothelium taediosum (Nylander) Müller Arg. {L}

Arthrinium arundinis (Corda) Dyko & B. Sutton

Arthrinium phaeospermum (Corda) M.B. Ellis

Arthrophaga myriapodina K.T. Hodge & A.E. Hajek {!, C}

A collection of mine from Gahanna Woods (MO#365750) is a very good match morphologically to this recently described species (Hodge, Hajek, and Gryganskyi 2017). It was found fruiting abundantly on millipedes in Gahanna Woods, and it may be that this species is not uncommon in Ohio but merely overlooked.

Arthrosporium candidum (Schweinitz) S. Hughes

Arthuriomyces peckianus (Howe) Cummins & Y. Hiratsuka

Artomyces pyxidatus (Persoon) Jülich {C}

Ascobolus carbonarius P. Karsten

Ascobolus crenulatus P. Karsten {C}

Ascobolus denudatus Fries

Ascobolus furfuraceus Persoon

Ascobolus striisporus (Ellis & Dearnell) Seaver

Ascochyta asteris (Bresadola) Gloyer

Ascochyta borjomi Bondartsev

Ascochyta conicola Dearnell & House

Ascochyta doronici Allescher

Ascochyta hordei Hara

Ascochyta medicaginicola Q. Chen & L. Cai

Ascochyta necans (Ellis & Everhart) Davis

Ascochyta pisi Libert

Ascochyta smilacis Ellis & G. Martin

Ascocoryne albida (Berkeley) K.A. Seifert {C}

Ascocoryne cylchnium (Tulasne) Korf

Ascocoryne sarcoides (Jacquin) J.W. Groves & D.E. Wilson

Ascodesmis sphaerospora W. Obrist {H}

W. B. Cooke collection (L 0699531) at L (BioPortal 2020).

Ascodichaena rugosa Butin {L}

Ascoidea rubescens Brefeld

Ascophanus saccharinus (Berkeley & Currey) Boudier

Aspergillus flavus Link

Aspergillus glaucus (Linnaeus) Link

Aspergillus laneus Link

Aspergillus niger Tieghem

Aspergillus ochraceus K. Wilhelm

Aspergillus penicillioides Spegazzini

Aspergillus reptans Samson & W. Gams

Aspergillus rugulosus Thom & Raper

Aspergillus sulphureus (Fresenius) Wehmer

Aspicilia cinerea (Linnaeus) Körber {L}

Aspicilia laevata (Acharius) Arnold {L}

Aspicilia verrucigera Hue {L}

Asterina celastri Ellis & Kellerman

Asteroglobulus pyramidalis (Etayo) Diederich

Asteroma caryae (Peck) B. Sutton

Asteroma trillii (Ellis & Everhart) Rulamort

Asteroma vernicosum (DeCandolle) Fuckel

Asteromella dracaenae (Hennings) Aa

Asteromella fraxini (Berkeley & M.A. Curtis) Petrak

Asteromella kalmicola (Schweinitz) Petrak

Asteromella nyssae (Cooke) Aa

Asterophora lycoperdoides (Bulliard) Ditmar {C}

Asterostroma andinum Patouillard

Asterostroma cervicolor (Berkeley & M.A. Curtis) Massee

Asterostroma muscicola (Berkeley & M.A. Curtis) Massee

Astrosphaeriella applanata (Fries) Scheinpflug

Astrothelium scoria (Fée) Aptroot & Lücking {L}

Athallia holocarpa (Hoffmann) Arup, Frödén & Søchting {L, C}

Athallia pyracea (Acharius) Arup, Frödén & Søchting {L}

Athallia vitellinula (Nylander) Arup, Frödén & Søchting {L}

Athelia acrospora Jülich {!, C}

A collection of mine from Mercer Woods (MO#314809) is a good morphological match for this species (Jülich 1972).

Athelia arachnoidea (Berkeley) Jülich {C, S}

Athelia bombacina Persoon {C}

Athelia decipiens (Höhnel & Litschauer) J. Eriksson

Athelia epiphylla Persoon {C, S}

A collection of mine from Three Creeks Metro Park (MO#313466) identified as *A. epiphylla* in the broad sense of Eriksson and Ryvarden (1973) is conspecific with other vouchers identified as *A. epiphylla* in GenBank mostly originating from North American and East Asian collections. This Ohio collection is also conspecific with a Georgia collection (MO#364743) initially identified based on morphology as *A. binucleospora*, as well as some North American collections identified as *A. salicuum* (Alden Dirks pers. comm.).

The taxonomy of *Athelia epiphylla* and the "*Athelia epiphylla* group" has long been confused. Eriksson and Ryvarden (1973) considered *A. alnicola*, *A. salicum*, *A. tenuispora*, *A. macrospora*, *A. nivea* and *A. ovata* to be probable synonyms of *A. epiphylla*, while Jülich (1972) treated these as distinct taxa. Sequence data is lacking for most of these species. Sequences identified as *A. epiphylla* in GenBank belong to several different species-level taxa within *Athelia* and it is unclear which taxon represents the true *A. epiphylla* (Sulistyo *et al.* 2020). The lectotype collection (L 0110390) is extant at L but DNA sampling of the C. H. Persoon collections at L is not permitted (Nicolien Sol pers. comm.).

To add confusion further confusion to this issue, the termite-symbiotic sclerotia of a species in the *Athelia epiphylla* group have been referred to in the literature as "*Fibularhizoctonia* sp." The sclerotia-producing "*Fibularhizoconia*" is conspecific with MO#313466 based on ITS sequence data, and the Ohio collection produced *Fibularhizoctonia*-like sclerotia in culture on PDA. The teleomorph of "*Fibularhizoctona* sp." was recently described as *Athelia termitophila* (Maekawa *et al.* 2020). It is very possible that *A. termitophila* represents a junior synonym of either *A. epiphylla* or some other similar species given the confusion around the identity of *A. epiphylla* and the limited taxonomic sampling in Maekawa *et al.*'s phylogenetic analysis. More sequenced collections of *A. epiphylla* and similar species from Europe will be necessary to resolve this issue.

Athelia neuhoffii (Bresadola) Donk

Athelia ovata Jülich

Athelia salicum Persoon

Atheniella adonis (Bulliard) Redhead, Moncalvo, Vilgalys, Desjardin & B.A. Perry

As *Mycena roseipallens* (Maas Geesteranus 1992).

Atheniella delectabilis (Peck) Lüderitz & H. Lehmann

Atkinsonella hypoxylon (Peck) Diehl

Atropellis tingens M.L. Lohman & E.K. Cash

Auerswaldia quercicola Hennings

Aurantioporthe corni (Wehmeyer) G. Beier & Blanchette

As *Zythia aurantiaca* (Beier *et al.* 2015).

Aurantiporus fissilis (Berkeley & M.A. Curtis) H. Jahn ex Ryvarden

Aureobasidium apocryptum (Ellis & Everhart) Hermanides-Nijhof

Aureobasidium microstictum (Bubák) W.B. Cooke

Aureobasidium pullulans (De Bary) G. Arnaud ex Ciferri, Ribaldi & Corte

Aureobasidium sanguinariae (Ellis & Everhart) Hermanides-Nijhof

Aureoboletus auriflammeus (Berkeley & M.A. Curtis) G. Wu & Zhu L. Yang

Aureoboletus auriporus (Peck) Pouzar {C}

Aureoboletus innixus (Frost) Halling, A.R. Bessette & A.E. Bessette {!, C}

Three collections of mine are identified as this species: MU 000296935; and MO#266019 and MO#266054 in the herbarium of Michael Kuo. This is a very common bolete in our hardwood forests in the Summer, and it is likely that some herbarium collections identified as other bolete species belong to this species instead. Indeed, *Boletus auripes*, which has previously been reported from Ohio may be a synonym of this species (Both 1993, Klofac 2010).

Aureoboletus projectellus (Murrill) Halling

Aureoboletus roxanae (Frost) Klofac {C}

Aureoboletus russellii (Frost) G. Wu & Zhu L. Yang

Aureoboletus viridiflavus W.C. Coker & Beers ex W. Klofac

Auricularia auriformis (Schweinitz) Earle

Supposed synonym of *A. auricula-judae* described from eastern North America (Earle 1901, Barrett 1910). Given that *A. auricularia-judae* is a strictly European species, this may be a senior synonym of *A. angiospermum*, *A. americana* or some other North American *Auricularia* species (We *et al.* 2015).

Auriscalpium vulgare Gray

Austroboletus gracilis (Peck) Wolfe {C}

Bachmanniomyces punctum (A. Massalongo) Diederich & Pino-Bodas {L}

Bacidia bagliettoana (A. Massalongo & De Notaris) Jatta {L}

Bacidia coprodes (Körber) Lettau {L}

Bacidia delicata (Larbalestier ex Leighton) Coppins {L}

Bacidia diffracta S. Ekman {L}

Bacidia ekmaniana R.C. Harris, Ladd & Lendemer {L}

Bacidia granosa (Tuckerman) Zahlbrückner {L}

Bacidia idahoensis H. Magnusson {L}

Bacidia inundata (Fries) Körber {L}

Bacidia laurocerasi (Del. ex Duby) Vain. {L}

Bacidia polychroa (Th. Fries) Körber {L}

Bacidia rubella (Hoffmann) A. Massalongo {L}

Bacidia schweinitzii (Tuckerman) A. Schneider {L}

Bacidia sorediata Lendemer & R.C. Harris {L}

Bacidia suffusa (Fries) A. Schneider {L}

Bacidina arnoldiana (Körber) V. Wirth & Vězda {L}

Bacidina assulata (Körber) S. Ekman {L}

Bacidina brittoniana (Riddle) LaGreca & Ekman {L}

Bacidina californica S. Ekman {L}

Bacidina egenula (Nylander) Vězda {L}

Bacidina egenuloidea (Fink) S. Ekman {O, L}

Bactridiopsis ulei Hennings

Bactridium candidum Kunze

Bactridium clavatum Berkeley & Broome

Bactridium ellisii Berkeley

Bactridium flavum Kunze {C}

Baculifera curtisii (Tuckerman) Marbach {L}

Baeomyces rufus (Hudson) Rebentisch {L}

Baeospora myosura (Fries) Singer {C}

Baeospora myriadophylla (Peck) Singer

Bagliettoa baldensis (A. Massalongo) Vězda {L}

Bagliettoa calciseda (DeCandolle) Gueidan & Cl. Roux {L}

Balansia strangulans (Montagne) Diehl

Baltazaria galactina (Fries) C.A. Leal-Dutra, Dentinger & G.W. Griffith

Baorangia bicolor (Kuntze) G. Wu, Halling & Zhu L. Yang {C}

Barbatosphaeria barbirostris (Dufour) Réblová

Basidiobotrys grisea (Berkeley & M.A. Curtis) S. Hughes

Basidiodendron caesiocinereum (Höhnel & Litschauer) Luck-Allen

Basidiocladum cinereum (Bourd & Galzin) Luck-Allen

Basidiocladum deminutum (Bourd) Luck-Allen {H}

D. P. Rogers collection (K 29028) at K (Kew Mycology Collection 2020).

Basidiocladum eyrei (Wakefield) Luck-Allen

Basidioradulum radula (Fries) Nobles

Beauveria bassiana (Balsamo-Crivelli) Vuillemin {C, S}

Beauveria brongniartii (Saccardo) Petch {C, S}

Bellidiodendron incompta (Borrer) Kistenich, Timdal, Bendiksby & S. Ekman {L}

Belonidium marchalianum Saccardo, E. Bommer & M. Rousseau

Belonidium pruinatum (Jerdon) Rehm

Belonidium tympanoides Ellis & Everhart

Belonium fairmanii Rehm

Berkleasmium concinnum (Berkeley) S. Hughes {C}

Berkleasmium moriforme (Peck) R.T. Moore

Bertia moriformis (Tode) De Notaris

Bertiella botryosa Morgan {O}

Biatora beckhausii (Körber) Tuckerman {L}

Biatora chrysanthae (Zahlbruckner) Printzen {L}

Biatora longispora (Degelius) Lendemer & Printzen {L}

Biatora pontica Printzen & Tønsberg {L}

Biatora printzenii Tønsberg {L}

Biatora vernalis (Linnaeus) Fries {L}

Bilimbia microcarpa (Th. Fries) Th. Fries {L}

Bilimbia sabuletorum (Schreber) Arnold {L}

Bipolaris maydis (Y. Nisikado & C. Miyake) Shoemaker

Bipolaris sorokiniana (Saccardo) Shoemaker

Biscogniauxia albosticta (Ellis & Morgan) Y.M. Ju & J.D. Rogers {O}

Biscogniauxia atropunctata (Schweinitz) Pouzar

Biscogniauxia cinereolilacina (J.H. Miller) Pouzar

Biscogniauxia discincola (Schweinitz) Lar.N. Vassiljeva

Biscogniauxia marginata (Fries) Pouzar

Biscogniauxia mediterranea (De Notaris) Kuntze

Biscogniauxia nummularia (Bulliard) Kuntze

Biscogniauxia repanda (Fries) Kuntze

Biscogniauxia uniaciculata (Penzig & Saccardo) Whalley & Læssøe

Bispora aterrima Berkeley & Ravenel

Bisporella citrina (Batsch) Korf & S.E. Carpenter {C}

Bisporella confluens (Saccardo) Korf & Bujakiewicz

Bisporella pallescens (Persoon) S.E. Carpenter & Korf

Bjerkandera adusta (Willdenow) P. Karsten {C}

Bjerkandera fumosa (Persoon) P. Karsten {C}

Blastenia ferruginea (Hudson) A. Massalongo {L}

Blennothallia crispa (Hudson) Otálora, P.M. Jørgensen & Wedin {L}

Blumeria graminis (DeCandolle) Speer

Blumeriella hiemalis (B.B. Higgins) Pöldmaa

Blumeriella jaapii (Rehm) Arx

Boeremia exigua (Desmazières) Aveskamp, Gruyter & Verkley

Bogoriella thelena (Acharius) Aptroot & Lücking {L}

Bolbitius callistus (Peck) Watling {C}

Bolbitius reticulatus (Persoon) Ricken {C}

Bolbitius titubans (Bulliard) Fries {C}

Boletellus chrysenteroides (Snell) Snell {C}

Boletinellus merulioides (Schweinitz) Murrill {C}

Boletopsis grisea (Peck) Bondartsev & Singer {C}

Boletopsis leucomelaena (Persoon) Fayod

Boletus atkinsonii Peck {!, C}

Two collections of mine (MO#266004 and MO#266026) are identified as this species.

These collections are currently located in the herbarium of Michael Kuo.

Boletus auripes Peck

Likely a *Tengioboletus* species rather than a true *Boletus* species (Igor Safonov pers. comm.).

Boletus caespitosus Peck

May be a synonym of *Aureoboletus innixus* (Both 1993, Klofac 2010).

Boletus curtisii Berkeley

Likely not a true *Boletus* but the proper generic placement of this species is unclear. It may be more closely related to *Retiboletus* species than to *Boletus sensu stricto* (Binder and Hibbett 2006). It has also been suggested to belong in *Pulveroboletus* (Singer 1947).

Boletus cyaneitinctus (Murrill) Murrill {!, C}

A collection of mine from Zaleski State Forest (MO#423083) is identified as this species. This species has previously been considered a synonym of *Cyanoboletus pulverulentus*, which is a strictly European species. *Boletus cyaneitinctus* belongs in *Cyanoboletus* rather than *Boletus sensu stricto* and a combination in *Cyanoboletus* will be published in an upcoming publication (Arian Farid pers. comm.). It is likely that most collections identified as *C. pulverulentus* in Ohio represent this species instead.

Boletus edulis Bulliard

Boletus fraternus Peck

Not a true *Boletus* species. This species belongs in *Hortiboletus* but lacks a combination in that genus (Bessette, Roody and Bessette 2017; Kuo and Ortiz-Santana 2020).

Boletus glabellus Peck

Likely not a true Boletus. Poorly known species (Both 1993).

Boletus harrisonii A.H. Smith & Thiers {!, C}

Four collections identified as this species of mine: MU 000296936; and MO#264868, MO#264349 and MO#264347 in the herbarium of Michael Kuo. This is not a true Boletus. It belongs in *Hortiboletus* but lacks a combination in that genus (Bessette, Roody and Bessette 2017; Kuo and Ortiz-Santana 2020).

Boletus magnisporus Frost

Collected from Ohio by A.P. Morgan, but this collection is not present in Mycoportal (Peck 1889b).

Boletus miniato-olivaceus Frost {C, S, *}

Not a true *Boletus*, but it is currently unclear which genus it belongs in. An ITS sequence was obtained for a collection identified as this species of mine (PUL F26155), and a BLAST search of this sequence placed it near *Baorangia* and *Lanmaoa* species. This collection represents the first sequenced collection identified as *Boletus miniato-olivaceus*.

Boletus miniatopallescens A.H. Smith & Thiers {!, C, S}

A collection of mine from Hinckley Reservation (MO#378233) was identified as this species. An ITS sequence was obtained for this collection, which places it near *Pulchroboletus sclerotiorum*. This species likely belongs in *Pulchroboletus* as well but lacks a combination in that genus.

Boletus nobilis Peck {!, C}

A collection of mine from Mohican State Park (MU 000297107) is identified as this species.

Boletus pseudoseparans Grand & A.H. Smith

May be a synonym of *Boletus separans* (Both 1993).

Boletus rufocinnamomeus A.H. Smith & Thiers {C, S}

A *Neoboletus* rather than a true *Boletus*, but it has not been combined in that genus yet.

Boletus sensibilis Peck

Likely not a true *Boletus*, but it is unclear which genus this belongs in.

Boletus separans Peck {C}

Boletus spadiceus var. *gracilis* A.H. Smith & Thiers {!, C}

Two collections of mine, MO#265033 and MO#265026, located in the herbarium of Michael Kuo were identified as this species. This taxon likely requires specific rank (Both 1993). This is not a true Boletus species and may belong in *Xerocomus*.

Boletus subfraternus Coker & Beers {!, C}

Two collection of mine (MU 000292831 and MU 000296828) are identified as this species. An ITS sequence was obtained for MU 000292831 (=MO#299731), and a BLAST search on that sequences placed that it in *Hortiboletus*, among vouchers identified as *H. rubellus* and *Boletus campestris*. Kuo and Ortiz-Santana (2020) also found this species to belong in *Hortiboletus* based on phylogenetic analysis but did not combine it there and did not sequence the ITS of their collection, so the ITS of MU 000292831 could not be directly compared to their collection. It is possible that this species may be a synonymous with *B. campestris*, in which case it would be a senior synonym. The North American *Hortiboletus* species require revision.

Boletus subvelutipes Peck {C}

A *Neoboletus* rather than a true *Boletus*, but it has not been combined in that genus yet.

Boletus variipes Peck {!, C}

A collection of mine (MU 000296939) from Highbanks Metro Park is identified as this species.

Boletus variipes var. *fagicola* A.H. Smith & Thiers {!, C}

A collection of mine (MO#260764) in the herbarium of Michael Kuo is identified as this taxon.

Boletus vermiculosoides A.H. Smith & Thiers {!, C}

A collection of mine (MO#265131) in the herbarium of Michael Kuo is identified as this species. This is not a true *Boletus* species and may belong in *Neoboletus*.

Boletus vermiculosus Peck

Likely a *Neoboletus* rather than a true *Boletus*, but it has not been combined in that genus yet.

Bombardia bombarda (Batsch) J. Schröter

Bondarzewia berkeleyi (Fries) Bondartsev & Singer

Boreostereum radiatum (Peck) Parmasto

Bothia castanella (Peck) Halling, T.J. Baroni & Manfr. Binder

Botryobasidium aureum Parmasto

Botryobasidium candicans J. Eriksson {!, C}

A collection of mine from Woodside Green Park (MU 000296982) is identified as this species.

Botryobasidium capitatum (Link) Rossman & W.C. Allen

Botryobasidium conspersum J. Eriksson

Botryobasidium croceum Lentz

Botryobasidium curtisii Hallenberg

Botryobasidium intertextum (Schweinitz) Jülich & Stalpers

Botryobasidium laeve (J. Eriksson) Parmasto

Botryobasidium rubiginosum (Fries) Rossman & W.C. Allen

Botryobasidium simile Pouzar & Holubová-Jechová {C}

Botryobasidium subcoronatum (Höhn & Litschauer) Donk

Botryobasidium vagum (Berkeley & M.A. Curtis) D.P. Rogers

Botryodiplodia cyanostroma (Berkeley & M.A. Curtis) Saccardo

Botryodiplodia malorum (Berkeley) Petrak & Sydow

Botryodiplodia ulmicola (Ellis & Everhart) Buisman

Botryohypochnus isabellinus (Fries) J. Eriksson

Botryolepraria lesdainii (Hue) Canals, Hernández-Mariné, Gómez-Bolea & Llimona {L}

Botryosphaeria dothidea (Mougeot ex Fries) Cesati & De Notaris {C}

Botryosphaeria obtusa (Schweinitz) Shoemaker

Botryosphaeria quercuum (Schweinitz) Saccardo

Botryosphaeria stevensii Shoemaker

Botryosporium longibrachiatum (Oudemans) Maire

Botrytis aclada Fresenius

Botrytis cinerea Persoon

Botrytis convoluta Whetzel & Drayton

Botrytis erubescens (Schweinitz) Saccardo

Botrytis fuliginosa Cooke & Ellis

Botrytis isabellina Preuss

Botrytis minutula Schweinitz

Botrytis paeoniae Oudemans

Botrytis pellicula Schweinitz

Botrytis umbellata (Bulliard) DeCandolle

Botrytis vulgaris Fries

Bovista aestivalis (Bonorden) Demoulin

Bovista colorata (Peck) Kreisel

Bovista dryina (Morgan) Demoulin {O}

Poorly known species May be synonymous with some other *Bovista* species (Demoulin 1979).

Bovista longispora Kreisel

Bovista minor Morgan {O}

Bovista nigrescens Persoon

Bovista pila Berkeley & M.A. Curtis {O}

Bovista plumbea Persoon

Bovista pusilla (Batsch) Persoon

Bovistella ohiensis (Ellis & Morgan) Morgan {O}

Bovistella pedicellata Lloyd

Bovistella radicata Patouillard

Brachysporium obtusissimum (Berkeley & M.A. Curtis) Saccardo

Bresadolia uda (Junghuhn) Audet

This is a poorly resolved species complex. Ohio collections identified as this species may represent multiple different species (Motato-Vásquez *et al.* 2018).

Breviappendix rubi (Rehm) Senanayake, Maharachchikumbura & K.D. Hyde

Brevicellicium olivascens (Bresadola) K.H. Larsson & Hjortstam

Brianaria bauschiana (Körber) S. Ekman & M. Svensson {L}

Brianaria sylvicola (Flot. ex Körb.) S. Ekman & M. Svensson {L}

Britzelmayria multipedata (Peck) D. Wächt. & A. Melzer {!, C}

A collection of mine from Woodside Green Park in Gahanna (MO#366446) is identified as this species. This collection is pictured in Fig. 2B.

Brownliella cinnabarina (Acharius) S.Y. Kondratyuk, Kärnefelt, A. Thell, Elix, J.Kim, A.S.

Kondratyuk & J.-S.Hur {L}

Brunneoporus juniperinus (Murrill) Zmitrovich

Brunneoporus malicola (Berkeley & M.A. Curtis) S. Audet {C}

Bryobilimbia ahlesii (Körber) Fryday, Printzen & S. Ekman {L}

Bryoperdon acuminatum (Bosc) Vizzini {O}

Bryoria furcellata (Fries) Brodo & D. Hawksworth {L}

Buellia aethalea (Acharius) Th. Fries {L}

Buellia badia (Fries) A. Massalongo {L}

Buellia disciformis (Fries) Mudd {L}

Buellia erubescens Arnold {L}

Buellia maculata Bungartz {L}

Buellia ocellata (Flörke) Körber {L}

Bulgaria inquinans (Persoon) Fries

Bulgariella pulla (Fries) P. Karsten

Butyriboletus frostii (J.L. Russell) G. Wu, Kuan Zhao & Zhu L. Yang {C}

Butyriboletus taughannockensis Safonov {!, C, S}

Two collections of mine (MO#375976 and MO#425643) are identified as this species.

These collections are a very good morphological and ITS match for this species.

However, they are also a good match for *Boletus pseudopeckii* and it is possible that

Butyriboletus taughannockensis may be a junior synonym of that species (Smith and Thiers 1971).

Byssocorticium atrovirens (Fries) Bondartsev & Singer ex Singer {C}

Byssocorticium caeruleum Kotir., Saaren. & K.H. Larss. {!, C}

A collection of mine from Highbanks Metro Park (MO#360864) is identified as this species.

Byssomerulius albostramineus (Torrend) Hjortstam

Byssomerulius corium (Persoon) Parmasto

Byssomerulius hirtellus (Burt) Parmasto

Byssomerulius incarnatus (Schweinitz) Gilbertson {C}

Byssonectria fusispora (Berkeley) Rogerson & Korf

Byssosphaeria diffusa Cooke {O}

Byssosphaeria rhodomphala (Berkeley) Cooke {O}

Byssosphaeria schiedermayeriana (Fuckel) M.E. Barr {!, C}

A collection of mine from the Ohio State University campus (MO#349597) is identified as this species.

Caeoma cimicifugatum Schweinitz

Caeruleum heppii (Nägeli ex Körber) K. Knudsen & L. Arcadia {L}

Caeruleum immersum (Fink) K. Knudsen & L. Arcadia {O, L}

Calicium abietinum Persoon {L}

Calicium glau cellulum Acharius {L}

Calicium lenticulare Acharius {L}

Calicium quercinum Persoon {L}

Calicium salicinum Persoon {L}

Calicium tigillare (Acharius) Persoon {L}

Calicium trabinellum (Acharius) Acharius {L}

Callistosporium luteo-olivaceum (Berkeley & M.A. Curtis) Singer {!, C}

Four collections of mine are identified as this species: MU 000296844, MU 000296869, MO#355722 and MO#423082. This is a very common species in Central Ohio, especially on oak logs in the Summer and early Fall. This species may have been previously overlooked in Ohio due to its small size and/or confusion with superficially similar yellow *Tricholomopsis* species such as *T. decora* or *T. sulphureoides*.

Callistosporium pseudofelleum Vizzini, Matheny, Consiglio & M. Marchetti {!, C, S}

Two collections of mine (MO#322104 and MO#279736) are identified as this species. This species is occasional on oak logs in Central Ohio and likely throughout the state as well. *Collybia alba*, previously reported from Ohio, is very similar to this species and may be a senior synonym of it (Peck 1888, Smith and Hesler 1940, Vizzini *et al.* 2020).

Callistosporium purpureomarginatum Fatto & Bessette {!, C}

Five collections of mine are identified as this species: MU 000296868, MU 000296887, MU 000297098, and MO#250089 and MO#243934 in the herbarium of Michael Kuo. This is a common species on oak logs in our area and very distinctive due to its purple-marginate gills. It may have been overlooked by previous collectors due to its small size.

Caloboletus firmus (Frost) Vizzini

Caloboletus inedulis (Murrill) Vizzini {C}

Caloboletus peckii (Frost) Vizzini

Calocera cornea (Batsch) Fries

Calocera furcata (Fries) Fries

Calocera glossooides (Persoon) Fries

Calocera stricta Fries

Calocera viscosa (Persoon) Fries

Calocybe persicolor (Fries) Singer

Calonectria chlorinella (Cooke) Saccardo

Calonectria cylindrospora (Ellis & Everhart) Rossman, L. Lombard & P.W. Crous

Caloplaca ahtii Søchting {L}

Caloplaca albovariegata (de Lesdain) Wetmore {L}

Caloplaca atroalba (Tuckerman) Zahlbruckner {L}

Caloplaca camptidia (Tuckerman) Zahlbruckner {L}

Caloplaca cerina (Hedwig) Th. Fries {L}

Caloplaca gilva (Vainio) Zahlbruckner {L}

Caloplaca lactea var. *americana* B. de Lesdain {L}

Caloplaca microphylla Zahlbruckner {L}

Caloplaca pollinii (A. Massalongo) Jatta {L}

Caloplaca pratensis Wetmore {L}

Caloplaca reptans Lendemer & Hodkinson {L}

Caloplaca saxicola (Hoffmann) Nordin {L}

Caloplaca sideritis (Tuckerman) Zahlbruckner {L}

Caloplaca soralifera Vondrák & Hrouzek {L}

Caloplaca ulmorum (Fink) Fink {L}

Calostoma cinnabarinum Corda {H}

H. C. Beardslee collection (F265901) at S.

Calostoma ravenelii (Berkeley) Massee

Calvatia candida (Rostkovius) Hollós

Calvatia craniiformis (Schweinitz) Fries ex De Toni

Calvatia cyathiformis (Bosc) Morgan {C}

Calvatia excipuliformis (Scopoli) Perdeck

Calvatia gigantea (Batsch) Lloyd

Calvatia lepidophora (Ellis & Everhart) Coker & Couch

Calvatia lilacina (Montagne & Berkeley) Hennings

Calvatia rubroflava (Cragin) Lloyd

Calvatia turneri (Ellis & Everhart) Demoulin & M. Lange

Calycellina punctiformis (Greville) Höhnel

Calycina discreta (P. Karsten) Kuntze

Calycina herbarum (Persoon) Gray

Calycina macrospora (Peck) Kuntze

Calycina vulgaris (Fries) Baral

Calyptella australis (Spegazzini) W.B. Cooke

Calyptella gibbosa (Léveillé) Quélet {!, C, S, *}

Three collection of mine from Academy Park in Gahanna (MU 000296981, MU 000297080 and MO#278976) are identified as this species. This taxon is very common at this site on dead herbaceous plant stems and leaves in the Spring. It may be more widespread in the state but has not yet been found elsewhere. An ITS sequence was obtained from MO#278976, and a BLAST search on this sequence supported placement in *Calyptella* but other sequences from collections identified as *C. gibbosa* were lacking in GenBank. The Ohio collections were identified based on their morphology, and their identification as *C. gibbosa* should be treated as tentative pending more sequenced collections of other *Calyptella* species.

Calyptosphaeria subdenudata (Peck) Réblová & A.N. Miller

Camarophyllopsis deceptiva (A.H. Smith & Hesler) Bon {!, C}

A collection of mine from Gahanna (MO#358935) is identified as this species.

Camarophyllopsis microspora (A.H. Smith & Hesler) Bon

Camarops ohiensis (Ellis & Everhart) Nannfeldt {O}

Camarops petersii (Berkeley & M.A. Curtis) Nannfeldt {C}

Camarops tubulina (Albertini & Schweinitz) Shear

Camarosporidiella elongata (Fries) Wanasinghe, Wijayawardene & K.D. Hyde {C, S}

Camarosporidiella laburni (Persoon) Wanasinghe, Bulgakov, Camporesi & K.D. Hyde

Camarosporium coronillae (Saccardo & Spegazzini) Saccardo

Camarosporium cytisi Berlese & Bresadola

Camarosporium robiniae (Westendorp) Saccardo

Camillea punctulata (Berkeley & Ravenel) Læssøe, J.D. Rogers & Whalley

Camillea signata (S.C. Jong & C.R. Benjamin) Læssøe, J.D. Rogers & Whalley

Camillea tinctor (Berkeley) Læssøe, J.D. Rogers & Whalley {O}

Candelaria concolor (Dickson) Stein {L}

Candelaria fibrosa (Fries) Müller Arg. {L}

Candelariella aurella (Hoffmann) Zahlbrückner {L}

Candelariella efflorescens R.C. Harris & W.R. Buck {L}

Candelariella lutella (Vainio) Räsänen {L}

Candelariella reflexa (Nylander) Lettau {L}

Candelariella vitellina (Ehrhart) Müller Arg. {L}

Candelariella xanthostigma (Persoon ex Acharius) Lettau {L}

Candelariella xanthostigmoides (Müller Arg.) R.W. Rogers {L}

Candolleomyces candolleanus (Fries) Wächter & A. Melzer {C}

Candolleomyces leucotephrus (Berkeley & Broome) Wächter

& A. Melzer

Canoparmelia amazonica (Nylander) Elix & Hale {L}

Canoparmelia caroliniana (Nylander) Elix & Hale {L}

Canoparmelia cryptochlorophaea (Hale) Elix & Hale {L}

Canoparmelia texana (Tuckerman) Elix & Hale {L}

Cantharellula umbonata (J.F. Gmelin) Singer

Cantharellus appalachiensis R.H. Petersen {C}

Cantharellus chicagoensis Leacock, J. Riddell, Rui Zhang & G.M. Mueller {!, C}

Four collections of mine (MO#264175, MO#265638, MO#280440 and MO#283800) are identified as this species. MO#280440 is pictured in Fig. 1A. This is a common chanterelle in Central Ohio and likely elsewhere in the state and can be distinguished from other similar *Cantharellus* species by the greenish margins of the young caps. It is likely that some of the Ohio collections identified as *Cantharellus cibarius* represent this species instead (Leacock *et al.* 2016).

Cantharellus cinnabarinus (Schweinitz) Schweinitz

Cantharellus lateritius (Berkeley) Singer {C}

Cantharellus minor Peck {C}

Capitotricha bicolor (Bulliard) Baral

Capnodium elongatum Berkeley & Desmazières

Capnodium footii Harvey ex Berkeley & Desmazières

Capnodium pini Berkeley & M.A. Curtis

Capronia porothelia (Berkeley & M.A. Curtis) M.E. Barr

Carbonicola anthracophila (Nylander) Bendiksby & Timdal {L}

Carcinomyces effibulatus (Ginns & Sunhede) Oberwinkler & Bandoni {!, C, S}

A collection of mine from Blacklick Woods Metro Park (MU 000292827) is identified as this species. This collection is a very good match for this species based on its morphology and the ITS sequence obtained from it. Some Ohio collections identified as *Syzygospora mycetophila* may represent this species instead (Ginns 1986).

Caryospora putaminum (Schweinitz) De Notaris

Catillaria chalybeia (Borrer) A. Massalongo {L}

Catillaria fungoides Etayo & van den Boom {L}

Catillaria glauconigrans (Tuckerman) Hasse {L}

Catillaria massalongoi Körber {L}

Catillaria nigroclavata (Nylander) J. Steiner {L}

Catinaria atropurpurea (Schaerer) Vězda & Poelt {L}

Catinaria neuschildii (Körber) P. James {L}

Catinella olivacea (Batsch) Boudier

Cenangella violacea Ellis & Everhart

Cenangium acuum Cooke & Peck

Cenangium ferruginosum Fuckel

Cenococcum geophilum Fries

Cephalotrichum flavovirens (Albertini & Schweinitz) Nees

Cephalotrichum stemonitis (Persoon) Nees

Ceraceomyces americanus Nakasone, C.R. Bergman & Burdsall

Ceraceomyces serpens (Tode) Ginns

Ceraceomyces tessulatus (Cooke) Jülich

Ceratocystis fimbriata Ellis & Halsted

Ceratocystis microcarpa (P. Karsten) C. Moreau

Ceratocystis paradoxa (De Seynes) C. Moreau

Ceratosporella bicornis (Morgan) Höhnel {O}

Ceratostoma albomaculans Ellis & Everhart {O}

Ceratostoma melaspernum Ellis & Everhart {O}

Ceratostoma setigerum Ellis & Everhart {O}

Cercidospora epipolytropa (Mudd) Arnold {O, L}

Cercophora coprophila (Fries) N. Lundqvist

Cercophora newfieldiana (Ellis & Everhart) R. Hilber

Cercophora solaris (Cooke & Ellis) R. Hilber & O. Hilber

Cercospora acalyphae Peck

Cercospora althaeina Saccardo {O}

Cercospora angulata G. Winter

Cercospora antirrhini A.S. Muller & Chupp

Cercospora apii Fresenius

Cercospora aquilegiae Kellerman & Swingle

Cercospora arctii-ambrosiae Halsted

Cercospora aricola Saccardo

Cercospora barbareae (Saccardo) Chupp

Cercospora beticola Saccardo

Cercospora brunkii Ellis & Galloway

Cercospora canescens Ellis & G. Martin

Cercospora davisii Ellis & Everhart

Cercospora desmodiicola G.F. Atkinson ex Chupp

Cercospora diantherae Ellis & Kellerman

Cercospora elongata Peck

Cercospora flagellaris Ellis & G. Martin

Cercospora heucherae Ellis & G. Martin

Cercospora ipomoeae G. Winter

Cercospora ligustri Roumeguère

Cercospora lippiae Ellis & Everhart

Cercospora maianthemi Fuckel

Cercospora malvicola Ellis & G. Martin

Cercospora moricola Cooke

Cercospora narthecii Balfour-Browne

Cercospora osmorrhizae Ellis & Everhart

Cercospora physalidis Ellis

Cercospora polygonacea Ellis & Everhart

Cercospora sagittariae Ellis & Kellerman

Cercospora solani Thümen

Cercospora vernoniae Ellis & Kellerman

Cercospora violae Saccardo

Cercosporella cana (Saccardo) Saccardo {H}

W. A. Kellerman collection (MA-Fungi 30976) at MA (Herbario de Criptogamia 2020).

Cercospora euonymi Eriksson {O}

Cercospora virgaureae (Thümen) Allescher

Cerinomyces pallidus G.W. Martin

Cerioporus squamosus (Hudson) Quélet {C}

Cerioporus stereoides (Fries) I.V. Zmitrovich & A.E. Kovalenko {!, C}

A collection of mine from Mohican State Park (MO#396846) is identified as this species.

Cerioporus varius (Persoon) I.V. Zmitrovich & A.E. Kovalenko {C}

Ceriporia purpurea (Fries) Donk

Ceriporia reticulata (Hoffmann) Domanski

Ceriporia spissa (Schweinitz ex Fries) Rajchenberg {C}

Ceriporia tarda (Berkeley) Ginns

Ceriporia viridans (Berkeley & Broome) Donk

Ceriporia xylostromatoides (Berkeley) Ryvarden

Ceriporiopsis gilvescens (Bresadola) Domanski

Cerocorticium molle (Berkeley & M.A. Curtis) Jülich

Cerrena unicolor (Bulliard) Murrill {C}

Cetraria arenaria Kärnefelt {L}

Cetraria ericetorum Opiz {L}

Cetraria islandica (Linnaeus) Acharius {L}

Cetrelia cetrariooides (Delise) W.L. Culberson & C.F. Culberson {L}

Cetrelia chicitae (W.L. Culberson) W.L. Culberson & C.F. Culberson {L}

Cetrelia olivetorum (Nylander) W.L. Culberson & C.F. Culberson {L}

Chaenotheca brunneola (Acharius) Müller Arg. {L}

Chaenotheca chrysoccephala (Turner ex Acharius) Th. Fries {L}

Chaenotheca ferruginea (Turner ex Smith) Migula {L}

Chaenotheca furfuracea (Linnaeus) Tibell {L}

Chaenotheca phaeocephala (Turner) Th. Fries {L}

Chaenotheca xyloxena Nádvorník {L}

Chaenothecopsis debilis (Smith) Tibell {L}

Chaenothecopsis nana Tibell {L}

Chaenothecopsis nigra Tibell {L}

Chaenothecopsis perforata Rikkinen & Tuovila {L}

Chaenothecopsis pusilla (A. Massalongo) A.F.W. Schmidt {L}

Chaenothecopsis pusiola (Acharius) Vainio {L}

Chaenothecopsis savonica (Räsänen) Tibell {L}

Chaetomastia scelestata (Cooke & Ellis) M.E. Barr

Chaetomium elatum Kunze

Chaetomium globosum Kunze ex Fries

Chaetomium indicum Corda

Chaetomium rostratum Spegazzini

Chaetomium spirochaete Palliser

Chaetomium trigonosporum (Marchal & É.J. Marchal) Chivers

Chaetophoma maculans G. Winter

Chaetoplea aspera (Ellis & Everhart) M.E. Barr

Chaetosphaerella fusca (Fuckel) E. Müller & C. Booth

Chaetosphaeria fusiformis W. Gams & Holubová-Jechová

Chalara affinis Saccardo & Berlese

Chalara ampullula (Saccardo) Saccardo

Chalara fusidioides (Corda) Rabenhorst

Chalara heterospora Saccardo

Chalciporus piperatus (Bulliard) Bataille {C}

Cheilymenia coprinaria (Cooke) Boudier

Cheilymenia stercorea (Persoon) Boudier

Cheilymenia theleboloides (Albertini & Schweinitz) Boudier {O}

Cheimonophyllum candidissimum (Berkeley & M.A. Curtis) Singer

Cheiromyces stellatus Berkeley & M.A. Curtis

Cheiromyces tinctus Peck

Cheirospora botryospora (Montagne) S. Hughes

Chionosphaera apobasidialis D.E. Cox

Chlorencoelia torta (Schweinitz) J.R. Dixon

Chlorencoelia versiformis (Persoon) J.R. Dixon {C}

Chloridium caesium (Nees & T. Nees) Réblová & K.A. Seifert

Chlorociboria aeruginascens (Nylander) Kanouse ex C.S. Ramamurthi, Korf & L.R. Batra

Chlorociboria aeruginosa (Oeder) Seaver ex C.S. Ramamurthi, Korf & L.R. Batra

Chlorophyllum agaricoides (Czernajew) Vellinga

Chlorophyllum molybdites (G. Meyer) Massee

Chlorophyllum rhacodes (Vittadini) Vellinga {C}

Chlorosplenium chlora (Schweinitz) M.A. Curtis {C}

Chlorosplenium rugipes (Peck) Korf

Chlorosplenium viridulum (Massee & Morgan) Dennis {O}

Choanephora cucurbitarum (Berkeley & Ravenel) Thaxter

Chondroplea populea (Saccardo & Briard) Klebahn

Chondrostereum purpureum (Persoon) Pouzar

Chrismofulvea dialyta (Nylander) Marbach {L}

Chromelosporium ochraceum Corda

Chromosporium album (Corda) Saccardo

Chromosporium aureum (Corda) Saccardo

Chromosporium flavum Patouillard

Chromosporium pactolinum (Cooke & Harkness) Cooke

Chromosporium roseum Corda

Chrysomphalina chrysophylla (Fries) Clémençon

Chrysomyxa pyrolae (DeCandolle) Rostrup

Chrysonilia sitophila (Montagne) Arx

Chrysosporium olivaceum (Link) J.J. Taylor

Chrysothrix caesia (Flotow) Ertz & Tehler {L}

Chrysothrix candelaris (Linnaeus) J.R. Laundon {L}

Chrysothrix chamaecyparicola Lendemer {L}

Chrysothrix insulizans R.C. Harris & Ladd {L}

Chrysothrix xanthina (Vainio) Kalb {L}

Chuppomyces handelii (Bubák) U. Braun, C. Nakashima, Videira & Crous

Ciboria batschiana (Zopf) N.F. Buchwald

Ciboria tabacina Ellis & Holway

Ciborinia erythronii (Whetzel) Whetzel

Cinereomyces lindbladii (Berkeley) Jülich

Ciposia wheeleri (R.C. Harris) Marbach {L}

Circinaria caesiocinerea (Nylander ex Malbranche) A. Nordin, S. Savić & Tibell {L}

Circinaria contorta (Hoffmann) A. Nordin, S. Savić & Tibell {L}

Circinotrichum maculiforme Nees

Circinotrichum obscurum (Corda) S. Hughes

Circinotrichum olivaceum (Spegazzini) Pirozynski

Cistella xylita (P. Karsten) Nannfeldt

Cladidium bolanderi (Tuckerman) B.D. Ryan {L}

Cladobotryum polypori (Dearness & House) Rogerson & Samuels

The teleomorph name is *Hypomyces mycophilus*, but this anamorph name has precedence. It likely requires a new combination in *Hypomyces* to resolve this issue (Hawksworth 2011, Rogerson and Samules 1993).

Cladochytrium replicatum Karling

Cladomeris umbellata (Persoon) Quélet

Cladonia amaurocraea (Flörke) Schaerer {L}

Cladonia apodocarpa Robbins {L}

Cladonia arbuscula (Wallroth) Flotow {L}

Cladonia arbuscula subsp. *mitis* (Sandstede) Ruoss {L}

Cladonia bacillaris (Acharius) Genth {L}

Cladonia bellidiflora (Acharius) Schaeerer {L}

Cladonia borbonica Nylander {L}

Cladonia botrytes (K.G. Hagen) Willdenow {L}

Cladonia brevis (Sandstede) Sandstede {L}

Cladonia caespiticia (Persoon) Flörke {L}

Cladonia cariosa (Acharius) Sprengel {L}

Cladonia caroliniana (Schweinitz) Tuckerman {L}

Cladonia cenotea (Acharius) Schaeerer {L}

Cladonia cervicornis (Acharius) Flotow {L}

Cladonia chlorophaea (Flörke ex Sommerfelt) Sprengel {L}

Cladonia ciliata var. *tenuis* (Flörke) Ahti {L}

Cladonia clavulifera Vainio {L}

Cladonia coccifera (Linnaeus) Willdenow {L}

Cladonia confusa R. Santesson {L}

Cladonia coniocraea (Flörke) Sprengel {L}

Cladonia conista (Acharius) Robbins {L}

Cladonia cornuta (Linnaeus) Hoffmann {L}

Cladonia crispata (Acharius) Flotow {L}

Cladonia cristatella Tuckerman {L}

Cladonia cristatella subsp. *densissima* Fink ex J. Hedrick {O, L}

Cladonia cryptochlorophaea Asahina {L}

Cladonia cylindrica (A. Evans) A. Evans {L}

Cladonia deformis (Linnaeus) Hoffmann {L}

Cladonia didyma (Fée) Vainio {L}

Cladonia digitata (Linnaeus) Hoffmann {L}

Cladonia digitata var. *monstrosa* Vainio {L}

Cladonia dimorphoclada Robbins {L}

Cladonia fimbriata (Linnaeus) Fries {L}

Cladonia fimbriata var. *tubaeformis* (Hoffmann) Fries {L}

Cladonia firma (Nylander) Nylander {L}

Cladonia floerkeana (Fries) Flörke {L}

Cladonia floridana Vainio {L}

Cladonia furcata (Hudson) Schrader {L}

Cladonia furcata f. *furcatosubulata* (Hoffmann) Sandstede {L}

Cladonia furcata var. *corymbosa* (Acharius) Nylander {L}

Cladonia furcata var. *pinnata* (Flörke) Vainio {L}

Cladonia furcata var. *racemosa* (Hoffmann) Flörke {L}

Cladonia gracilis (Linnaeus) Willdenow {L}

Cladonia gracilis subsp. *turbinata* (Acharius) Ahti {L}

Cladonia grayi G. Merrill ex Sandstede {L}

Cladonia humilis (Withering) J.R. Laundon {L}

Cladonia incrassata Flörke {L}

Cladonia macilenta Hoffmann {L}

Cladonia mateocyatha Robbins {L}

Cladonia merochlorophaea Asahina {L}

Cladonia mitrula Tuckerman {L}

Cladonia multififormis G. Merrill {L}

Cladonia ochrochlora Flörke {L}

Cladonia parasitica (Hoffmann) Hoffmann {L}

Cladonia petrophila R.C. Harris {L}

Cladonia peziziformis (Withering) J.R. Laundon {L}

Cladonia phyllophora Ehrhart ex Hoffmann {L}

Cladonia piedmontensis G. Merrill {L}

Cladonia pleurota (Flörke) Schaeerer {L}

Cladonia prostrata A. Evans {L}

Cladonia pyxidata (Linnaeus) Hoffmann {L}

Cladonia pyxidata var. *neglecta* (Flörke) A. Massalongo {L}

Cladonia ramulosa (Withering) J.R. Laundon {L}

Cladonia rangiferina (Linnaeus) Weber ex F.H. Wiggers {L}

Cladonia rei Schaeerer {L}

Cladonia robbinsii A. Evans {L}

Cladonia sobolescens Nylander ex Vainio {L}

Cladonia squamosa (Scopoli) Hoffmann {L}

Cladonia stellaris (Opiz) Pouzar & Vězda {L}

Cladonia strepsilis (Acharius) Grognot {L}

Cladonia subcariosa Nylander {L}

Cladonia subnemoxyna Sandstede ex Zahlbruckner {L}

Cladonia subradiata (Vainio) Sandstede {L}

Cladonia subtenuis (Abbeyes) Mattick {L}

Cladonia subtenuis f. *cinerea* Ahti {L}

Cladonia subulata (Linnaeus) Weber ex F.H. Wiggers {L}

Cladonia sulphurina (Michaux) Fries {L}

Cladonia sylvestris Oeder {L}

Cladonia symphyarpa (Acharius) Fries {L}

Cladonia turgida Ehrhart ex Hoffmann {L}

Cladonia uncialis (Linnaeus) Weber ex F.H. Wiggers {L}

Cladonia verticillata (Hoffmann) Schaeerer {L}

Cladonia vulcanica Zollinger & Moritzi {L}

Cladosporium aphidis Thümen

Cladosporium atriellum Cooke

May be a synonym of *C. oxysporum* (Bensch *et al.* 2012).

Cladosporium cladosporioides (Fresenius) G.A. de Vries

Cladosporium cucumerinum Ellis & Arthur

Cladosporium epimyces Cooke

Cladosporium herbarum (Persoon) Link

Cladosporium iridis (Fautrey & Roumeguère) G.A. de Vries

Cladosporium maculans Schweinitz

Cladosporium ornithogali (Klotzsch ex Cooke) G.A. de Vries

Cladosporium solutum Link

Cladosporium sphaerospermum Penzig

Cladosporium tenuissimum Cooke

Clasterosporium caricinum (Fries) Schweinitz

Claussenomyces olivaceus (Fuckel) Sherwood

Clavaria argillacea Persoon

Clavaria fragilis Holmskjold

Clavaria fumosa Persoon

Clavaria inaequalis O.F. Müller ex Fries

Clavaria zollingeri Léveillé {C}

Clavariadelphus americanus Methven

Clavariadelphus ligula (Schaeffer) Donk

Clavariadelphus pistillaris (Linnaeus) Donk

Clavariadelphus truncatus (Quélet) Donk

Clavariadelphus unicolor (Berkeley & Ravenel) Corner

Clavascidium lacinulatum (Acharius) Prieto {L}

Claviceps purpurea (Fries) Tulasne {C}

Clavulina amethystina (Bulliard) Donk

Clavulina cinerea (Bulliard) J. Schröter

Clavulina coralloides (Linnaeus) J. Schröter {C}

Clavulina cristata (Holmskjold) J. Schröter

Clavulinopsis amoena (Zollinger & Moritzi) Corner

Clavulinopsis appalachiensis (Coker) Corner

Clavulinopsis aurantiocinnabrina (Schweinitz) Corner

Clavulinopsis corniculata (Schaeffer) Corner

Clavulinopsis fusiformis (Sowerby) Corner {C}

Clavulinopsis laeticolor (Berkeley & M.A. Curtis) R.H. Petersen

Clavulinopsis minutula (Bourdot & Galzin) Corner {C, S, *}

An ITS sequence was obtained for a collection of mine from Mohican State Park (MO#358795) identified as this species. NCBI BLAST placed the collection near collections identified as various *Clavulinopsis* and *Ramariopsis* species. Sequences of other collections identified as *C. minutula* are lacking in Genbank, and so sequencing could not confirm the identification of the Ohio collection as the same species as the European *C. minutula*. This identification should therefore be treated as tentative.

Clavulinopsis subtilis (Persoon) Corner

Climacocystis borealis (Fries) Kotlaba & Pouzar

Climacodon septentrionalis (Fries) P. Karsten {C}

Cliostomum griffithii (Smith) Coppins {L}

Clitocella mundula (Lasch) K. L. Kluting, T. J. Baroni & S. E. Bergemann

Clitocella popinalis (Fries) K. L. Kluting, T. J. Baroni & S. E. Bergemann {!, C}

A collection of mine from Tar Hollow State Park (MO#252726) is identified as this species.

Clitocybe americana H.E. Bigelow {!, C, S, *}

Two collections of mine (MO#379951 and MO#355126) are identified as this species.

An ITS sequence obtained from MO#355126 places this near collections identified as *C. subditopoda* in GenBank. Collections identified as *C. americana* are lacking in GenBank so the identification of these Ohio collections as *C. americana* should be treated as tentative.

Clitocybe catina (Fries) Quélet

Clitocybe ditopa (Fries) Gillet

Clitocybe eccentrica Peck, C.H.

Clitocybe fasciculata H.E. Bigelow & A.H. Smith {!, C, S, *}

A collection of mine from the Hocking State Forest Rock Climbing and Rappelling Area (MU 000292838) is identified as this species. An ITS sequence obtained for this collection placed this collection among *Lepista* species. This species likely belongs in *Lepista* rather than *Clitocybe* but lacks a combination in that genus.

Clitocybe fragrans (Withering) P. Kummer

Clitocybe leiphaemia (Montagne) Saccardo {O}

Obscure species. Not treated in Bigelow's revision of the genus (Bigelow 1982, Bigelow 1985).

Clitocybe maxima (G. Gaertner, B. Meyer & Scherbius) P. Kummer

Clitocybe metachroa (Fries) P. Kummer

Clitocybe nebularis (Batsch) P. Kummer

Clitocybe odora (Bulliard) P. Kummer {C, S}

Clitocybe phyllophila (Persoon) P. Kummer

Clitocybe pinophila (Peck) Saccardo

Clitocybe rivulosa (Persoon) P. Kummer

Clitocybe subconnexa Murrill

Clitocybe subditopoda Peck

Clitocybe truncicola (Peck) Saccardo

Clitocybe vilesrens (Peck) Saccardo

A *Rhodocybe* species according to Bigelow (1982a), but not yet combined in that genus.

Clitocybula abundans (Peck) Singer

Clitocybula familia (Peck) Singer

Clitocybula lacerata (Scopoli) Singer ex Métrod {!, C}

A collection of mine from Blendon Woods Metro Park (MU 000296753) is identified as this species.

Clitocybula oculus (Peck) Singer {!, C}

A collection of mine from Hinckley Reservation (MO#377823) is identified as this species.

Clitopilus hobsonii (Berkeley & Broome) P.D. Orton {!, C}

A collection of mine from Tuttle Park in Columbus (MU 000297087) is identified as this species.

Clitopilus prunulus (Scopoli) P. Kummer {C}

Clitopilus scyphoides (Fries) Singer

Clitopilus scyphoides f. *reductus* Noordeloos {!, C}

A collection of mine from Kelley's Island (MO#367662) is identified as this taxon.

Clitopilus unitinctus (Peck) Peck

A poorly known species, but it may represent a true *Clitopilus* (Peck 1889).

Clonostachys byssicola Schroers

Clonostachys compactiuscula (Saccardo) D. Hawksworth & W. Gams

Clonostachys rhizophaga Schroers {O}

Clonostachys rosea (Link) Schroers, Samuels, K.A. Seifert & W. Gams

Clypeococcum hypocenomycis D. Hawksworth {L}

Coccinonectria pachysandricola (B.O. Dodge) L. Lombard & P.W. Crous

Coccocarpia erythroxyli (Sprengel) Swinscow & Krog {L}

Coccocarpia palmicola (Sprengel) Arvidsson & D.J. Galloway {L}

Cocomyces dentatus (Kunze & J.C. Schmidt) Saccardo

Cocomyces strobi J. Reid & Cain

Cocomyces triangularis (Schweinitz) Saccardo {C, S, *}

An ITS sequence was obtained for a collection of mine from Academy Woods in Gahanna (MO#366039) identified as this species. This collection is a very good morphological match for this species, but other collections identified as *C. triangularis* are lacking in GenBank. The closest NCBI BLAST hits were species placed in *Colpoma* and *Lophodermium*, but these matches were not particularly close (<92.80% similarity). These results are not entirely surprising given that Sherwood (1980) speculated that this species may not be a true *Cocomyces* and suggested that it may belong among some species then placed in *Colpoma*. This species may require a combination in a novel genus.

Coenogonium luteum (Dickson) Kalb & Lücking {L}

Coenogonium pineti (Acharius) Lücking & Lumbsch {L}

Coleosporium campanulae (Persoon) Tulasne

Coleosporium carpessii Saccardo

Coleosporium delicatulum (Arthur & F. Kern) Hedgcock & Long

Coleosporium elephantopi Thümen

Coleosporium helianthi Arthur

Coleosporium inconspicuum (Long) Hedgcock

Coleosporium ipomoeae (Schweinitz) Burrill

Coleosporium jonesii (Peck) Arthur

Coleosporium montanum (Arthur & F. Kern) McTaggart & Aime {!, C}

A collection of mine from Columbus (MO#406530) is identified as this species. Some Ohio collections identified as *Coleosporium asterum* may represent this species instead (McTaggart and Aime 2018).

Coleosporium senecionis (Persoon) Fries

As *Peridermium oblongisporium* (Arthur 1934).

Coleosporium solidaginis (Schweinitz) Thümen

Coleosporium sonchi-arvensis Léveillé

Coleosporium tussilaginis (Persoon) Tulasne

Coleosporium vernoniae Berkeley & M.A. Curtis

Coleosporium viburni Arthur

Coleroa plantaginis (Ellis) M.E. Barr

Collarispora valgourgensis (Crous) Videira & Crous {B,S}

Videira *et al.* (2017) cite a sequenced culture in the CBS culture collection from Ohio. It is unclear whether this culture and the original collection are permanently vouchered, and if so, where.

Collema conglomeratum var. *crassiusculum* (Malme) Degelius {L}

Collema cyrtaspis Tuckerman {L}

Collema flaccidum (Acharius) Acharius {L}

Collema nigrescens (Hudson) DeCandolle {L}

Collema pulchellum Acharius {L}

Collema pustulatum Acharius {L}

Collema subflaccidum Degelius {L}

Colletosporium atrum Link

Colletotrichum cereale Manns {O}

Colletotrichum circinans (Berkeley) Voglino

Colletotrichum dematium (Persoon) Grove

Colletotrichum dracaenophilum D.F. Farr & M.E. Palm {!, C}

A collection by from the Columbus Ikea (MO#354782) collected in 2018 on cultivated *Dracaena sanderiana* was identified as this species. This is a pathogen recently introduced from Asia (Sharma *et al.* 2014).

Colletotrichum gloeosporioides (Penzig) Penzig & Saccardo

Colletotrichum glycines González Fragoso

Colletotrichum graminicola (Cesati) G.W. Wilson

Colletotrichum lindemuthianum (Saccardo & Magnus) Briosi & Cavara

Colletotrichum musae (Berkeley & M.A. Curtis) Arx

Colletotrichum omnivorum Halsted

Colletotrichum orbiculare Damm, P.F. Cannon & Crous

Colletotrichum trichellum (Fries) Duke

Colletotrichum trifolii Bain & Essary

Collybia alba Peck

Probably not a true *Collybia* species Very similar to *Callistosporium pseudofelleum* and possibly a senior synonym of that species (Peck 1888, Smith and Hesler 1940, Vizzini *et al.* 2020).

Collybia atratoides (Peck) Peck

Not a true *Collybia* species. It likely belongs in *Pseudoclitocybe* instead (Halling 1983a).

Collybia cirrata (Schumacher) Quélet

Collybia cookei (Bresadola) J.D. Arnold {C}

Collybia eatonae (Murrill) Murrill

This belongs in *Calocybe* rather than *Collybia sensu stricto*. It may be a synonym of *Calocybe carneae* or *Calocybe persicina* (Halling 1983a).

Collybia fuliginella Peck

Likely a species of *Melanoleuca* rather than a true *Collybia* (Halling 1983a).

Collybia olivaceobrunnea A.H. Smith

Not a true *Collybia* species but the generic placement of this species is unclear. This species is somewhat similar to *C. atratoides* (Smith and Hesler 1940, Singer 1986).

Collybia tuberosa (Bulliard) P. Kummer

Coltricia cinnamomea (Jacquin) Murrill {C}

Coltricia focicola (Berkeley & M.A. Curtis) Murrill

Coltricia montagnei (Fries) Murrill {C}

Coltricia perennis (Linnaeus) Murrill

Coltriciella dependens (Berkeley & M.A. Curtis) Murrill

Conferticium ochraceum (Fries) Hallenberg {C}

Coniarthonia pyrrhula (Nylander) Grube {L}

Coniella diplodiella (Spegazzini) Petrak & Sydow

Coniocarpon cinnabarinum DeCandolle {L}

Coniochaeta leucoplaca (Saccardo) Cain

Coniochaeta ligniaria (Greville) Massee

Coniochaeta niesslii (Auerswald) Cooke

As *Rosellinia ambigua* (Mahoney and LaFavre 1981).

Coniochaeta pulveracea (Ehrhart) Munk

Coniochaeta sordaria (Fries) Petrak

Coniophora arida (Fries) P. Karsten {C}

Coniophora olivacea (Fries) P. Karsten {C}

Coniophora puteana (Schumacher) P. Karsten

Coniosporium gecevi Bubák

Coniothecium atrum Corda

Coniothecium conglutinatum Corda

Coniothecium effusum Corda

Coniothyrium caryogenum F.V. Rand

Coniothyrium dispersellum P. Karsten

Coniothyrium hellebori Cooke & Massee

Coniothyrium parasitans (Berkeley & Ravenel) Tassi

Coniothyrium pyrinum (Saccardo) J. Sheldon

Coniothyrium radicicola Tehon {O}

Coniothyrium rosarum Cooke & Harkness

Connopus acervatus (Fries) R.H. Petersen

Conocybe apala (Fries) Arnolds

Conocybe aurea (Jul. Schäffer) Hongo {!, C}

A collection of mine from Denison University (MO#359908) is identified as this species.

Conocybe capillaripes (Peck) Watling {O}

May be synonymous with *Conocybe siliginea* (Hausknecht and Krisai-Greilhuber 2004).

Conocybe deliquescens Hausknecht & Krisai

Conocybe pubescens (Gillet) Kühner

Conocybe subovalis Kühner & Watling

Conocybe tenera (Schaeffer) Fayod

Conoplea abietina (Peck) S. Hughes

This species may represent the anamorph of a species in the Sarcosomataceae (Paden 1972).

Conoplea fusca Persoon

Conoplea globosa (Schweinitz) S. Hughes

This species is the anamorph of an unknown *Urnula* species (Paden 1972).

Conoplea juniperi S. Hughes

This species may be the anamorph of a *Plectania* species (Paden 1972).

Conoplea sphaerica (Persoon) Persoon

An A. P. Morgan collection (ISC-F-0091401) identified as *Streptothrix fusca* (=*Conoplea fusca*) represents this species instead (Hughes 1960). This species may represent the anamorph of a species in the Sarcosomataceae (Paden 1972).

Constrictolumina cinchonae (Acharius) Lücking, M.P. Nelsen & Aptroot {L}

Coppinsiella ulcerosa (Coppins & P. James) S.Y. Kondratyuk & L. Lököö {L}

Coprinellus angulatus (Peck) Redhead, Vilgalys & Moncalvo

Recombined by Wächter and Melzer (2020) in the new genus *Tulosesus*, but that name is illegitimate due to including the type species of the earlier segregate genus *Ephemerozybe* (Jacob Kalichman pers. Comm.). This species is treated as a *Coprinellus* here pending further revision.

Coprinellus disseminatus (Persoon) J.E. Lange

Coprinellus domesticus (Bolton) Vilgalys, Hopple & Jacq. Johnson

Coprinellus ephemerus (Bulliard) Redhead, Vilgalys & Moncalvo

Recombined by Wächter and Melzer (2020) in the new genus *Tulosesus*, but that name is illegitimate due being the type species of the earlier segregate genus *Ephemerozybe* (Jacob Kalichman pers. Comm.). This species is treated as a *Coprinellus* here pending further revision.

Coprinellus micaceus (Bulliard) Vilgalys, Hopple & Jacq. Johnson

Coprinellus radians (Desmazières) Vilgalys, Hopple & Jacq. Johnson

Coprinellus silvaticus (Peck) Gminder

Coprinellus truncorum (Scopoli) Redhead, Vilgalys & Moncalvo

Coprinellus xanthothrix (Romagnesi) Vilgalys, Hopple & Jacq. Johnson

Coprinopsis atramentaria (Bulliard) Redhead, Vilgalys & Moncalvo

Coprinopsis cinerea (Schaeffer) Redhead, Vilgalys & Moncalvo

Coprinopsis insignis (Peck) Redhead, Vilgalys & Moncalvo

Coprinopsis nivea (Persoon) Redhead, Vilgalys & Moncalvo

Coprinopsis radiata (Bolton) Redhead, Vilgalys & Moncalvo

Coprinopsis sylvicola (Bogart) Redhead, Vilgalys & Moncalvo

Coprinopsis variegata (Peck) Redhead, Vilgalys & Moncalvo

Coprinus comatus (O.F. Müller) Persoon

Coprinus laceratus Peck {O}

Not a true *Coprinus* species. This species is similar to species currently placed in

Coprinellus and may belong in that genus (Peck 1899, Wächter and Melzer 2020).

Coprinus pulchrifolius Peck

Not a true *Coprinus* species. This species is similar to species currently placed in

Coprinellus and may belong in that genus (Smith 1948, Wächter and Melzer 2020).

Coprinus squamosus Morgan {O}

Not a true *Coprinus* species. This species is very similar to *Coprinopsis variegatus* (Morgan 1883) and may be synonymous with that species or a similar species in *Coprinopsis*.

Coprotus aurora (P. Crouan & H. Crouan) K.S. Thind & Waraitch

Coprotus glauccellus (Rehm) Kimbrough {!, C}

A collection of mine from Tuttle Park in Columbus (MO#423498) was identified as this species.

Coprotus leucopocillum Kimbrough, Luck-Allen & Cain {!, C}

A collection of mine from Whetstone Park in Columbus (MO#407971) was identified as this species.

Coprotus niveus (Fuckel) Kimbrough, Luck-Allen & Cain

Cordyceps farinosa (Holmskjold) Kepler, B. Shrestha & Spatafora

Cordyceps militaris (Linnaeus) Link {C}

Cordyceps tenuipes (Peck) Kepler, B. Shrestha & Spatafora {!, C, S}

Four collections of mine are identified as this species: MU 000297110, MU 000297122, MU 000297123 and MO#371176. MO#371176 is pictured in Fig. 2C. Morphology and ITS sequences obtained from these collections support the identification of these collections as *C. tenuipes*. Some collections identified as *C. farinosa* or other former *Isaria* species from Ohio may represent this species instead.

Corethromyces jacobinus Thaxter

Corethromyces platensis Thaxter

Coriolopsis floccosa (Junghuhn) Ryvarden

Coriolopsis gallica (Fries) Ryvarden

Coriolopsis trogii (Berkeley) Domanski {C}

Corniculariella spina (Berkeley & Ravenel) DiCosmo

Cornularia macrospora (Berkeley & M.A. Curtis) Saccardo

Cornularia persicae (Schweinitz) Saccardo

Cornutispora lichenicola D. Hawksworth & B. Sutton

Coronicium alboglaucum (Bourdou & Galzin) Jülich

Corticium roseum Persoon

Cortinarius albidus Peck

Cortinarius alboviolaceus (Persoon) Fries

Cortinarius angulosus Fries

Cortinarius argentatus (Persoon) Fries

Cortinarius armillatus (Fries) Fries

Cortinarius atkinsonianus Kauffman {C, S}

Cortinarius autumnalis Peck

Cortinarius badius Peck

Cortinarius brunneofulvus Fries

Cortinarius brunneus (Persoon) Fries

Cortinarius cacaocolor A.H. Smith

Cortinarius caerulescens (Schaeffer) Fries

Cortinarius callisteus (Fries) Fries

Cortinarius callochrous (Persoon) Gray

Cortinarius caperatus (Persoon) Fries

Cortinarius castaneus (Bulliard) Fries

Cortinarius cinnamomeus (Linnaeus) Gray

Cortinarius collinitus (Sowerby) Gray

Cortinarius conioides Peintner & M.M. Moser

Cortinarius corrugatus Peck

Cortinarius croceifolius Peck

Cortinarius cylindripes Kauffman {!, C}

Cortinarius distans Peck {C}

Cortinarius fulgens Fries

Cortinarius hemitrichus (Persoon) Fries

Cortinarius humidicola Kauffman

Cortinarius incognitus Ammirati & A.H. Smith

Cortinarius iodes Berkeley & M.A. Curtis

Cortinarius leucopus (Bulliard) Fries

Cortinarius lignarius Peck

Cortinarius lilacinus Peck

Cortinarius limonius (Fries) Fries

Cortinarius michiganensis Kauffman

Cortinarius multififormis Fries

Cortinarius nigrellus Peck

Cortinarius ochroleucus (Schaeffer) Fries

Cortinarius odoritraganus Niskanen, Liimat. & Ammirati {!, C, S}

A collection of mine from Mohican State Park (MO#354742) is identified as this species and is a good match to the holotype of this species based on its ITS sequence (Liimatainen *et al.* 2020).

Cortinarius olivaceoluteus Ammirati, Bojantchev, K.W. Hughes, Liimatainen & Niskanen

{!, C, S}

A collection of mine from Mohican State Park (MO#354729) is identified as this species and is a good match to the holotype of this species based on its ITS sequence (Liimatainen *et al.* 2020).

Cortinarius olivaceostramineus Kauffman

Cortinarius pholideus (Liljeblad) Fries

Cortinarius privignus (Fries) Fries

Cortinarius puniceus P.D. Orton

Cortinarius rigens (Persoon) Fries

Cortinarius rigidus (Scopoli) Fries

Cortinarius rubripes Peck

Cortinarius scandens Fries

Cortinarius semisanguineus (Fries) Gillet {C}

Cortinarius squamulosus Peck

Cortinarius subargentatus Murrill

Cortinarius subsalmoneus Kauffman

Cortinarius turmalis Fries

Cortinarius uraceus Fries

Cortinarius variicolor (Persoon) Fries

Cortinarius vibratilis (Fries) Fries

Cortinarius violaceus (Linnaeus) Gray

Coryneum pulvinatum Kunze

Coryneum pustulatum Peck

Cosmospora flavoviridis (Fuckel) Rossman & Samuels

Costantinella micheneri (Berkeley & M.A. Curtis) S. Hughes

As *Verticillium candidum* and *V. terrestre* (Gams 2017).

Costantinella terrestris (Link) S. Hughes

Cotylidia diaphana (Schweinitz) Lentz {O,C, S, *}

An ITS sequence was obtained for a collection of mine from Hueston Woods State Park (MU 000296714) identified as this species. There are other sequences identified as *C. diaphana* in GenBank, but no ITS sequences. A BLAST search for MU 000296714 supported its placement in *Cotylidia* but could not further support its identification as *C. diaphana* due to the dearth of reference sequences. This is an occasional species throughout Ohio and appears to be especially prevalent in floodplains in the Spring and early Summer.

Cotylidia undulata (Fries) P. Karsten

Craterellus calyculus (Berkeley & M.A. Curtis) Burt {!, C, S, *}

A collection of mine from Highbanks Metro Park (MU 000292844) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search supported its placement in *Craterellus*. However, other collections identified as *C. calyculus* are lacking in GenBank. The identification of MU 000292844 as *C. calyculus* should be treated as tentative. The smaller *Craterellus* species formerly placed in *Pseudocraterellus* in North America are in need of revision.

Craterellus fallax A.H. Smith {C}

Craterellus foetidus A.H. Smith

Craterellus hesleri R.H. Petersen {!, C}

A collection of mine from Highbanks Metro Park (MO#264176) is identified as this species.

Craterellus lutescens (Persoon) Fries

Craterellus odoratus (Schweinitz) Fries

Craterellus palmatus Burt & Overholts {O}

This does not seem to be a true *Craterellus* species. Possibly a stereoid of some sort. The proper generic placement of this species is unclear (Burt 1914, Corner 1966).

Craterellus tubaeformis (Fries) Quélet {C}

Creosphaeria sassafras (Schweinitz) Y.M. Ju, F. San Martín & J.D. Rogers

Crepidotus alabamensis Murrill

Crepidotus applanatus (Persoon) P. Kummer {C, S}

Crepidotus aureus E. Horak

Crepidotus calolepis (Fries) P. Karsten

Crepidotus cinnabarinus Peck

Crepidotus coloradensis Hesler & A.H. Smith

Crepidotus conchatus Hesler & A.H. Smith

Crepidotus croceotinctus Peck {!, C}

A collection of mine from Zaleski State Forest (MO#415079) is identified as this species.

Crepidotus crocophyllus (Berkeley) Saccardo {O}

Crepidotus fusicporus Hesler & A.H. Smith

Crepidotus herbarum (Peck) Peck

Crepidotus lagenicystis Hesler & A.H. Smith

Crepidotus latifolius Peck {O}

Crepidotus lundellii Pilát

Crepidotus mollis (Schaeffer) Staude

Crepidotus occidentalis Hesler & A.H. Smith {!, C, S, *}

A collection of mine from Coopers Woods in Put-in-Bay (MO#367585) is identified as this species. An ITS sequence was obtained for this collection, but other sequences identified as *C. occidentalis* are lacking in GenBank.

Crepidotus pallidus (Berkeley & Broome) G. Petersen, H. Knudsen & Seberg

Crepidotus regularis Hesler & A.H. Smith

Crepidotus stipitatus Kauffman {!, C}

A collection of mine from the Clear Fork Reservoir Public Hunting and Fishing Area (MU 000296880) is identified as this species.

Crepidotus subapplanatus Hesler & A.H. Smith

Crepidotus sublatifolius Hesler & A.H. Smith {!, C}

Two collections of mine (MO#414862 and MO#415104) are identified as this species. The identification of these collections as *C. sublatifolius* should be treated as tentative pending DNA sequence data.

Crepidotus variabilis (Persoon) P. Kummer

Crepidotus versutus (Peck) Peck

Crespoa crozalsiana (B. de Lesdain ex Harmand) Lendemer & Hodkinson {L}

Cresponea chloroconia (Tuckerman) Egea & Torrente {L}

Cresponea premnea (Acharius) Egea & Torrente {L}

Crinipellis maxima A.H. Smith & M.B. Walters {O}

Crinipellis scabella (Albertini & Schweinitz) Murrill

Crinipellis setipes (Peck) Singer

Crinipellis zonata (Peck) Saccardo {C}

Cristinia eichleri (Bresadola) Nakasone

Crocodia aurata (Acharius) Link {L}

Crocynia zonata Nearing {L}

Cronartium comandrae Peck {O}

Cronartium comptoniae Arthur

Cronartium conigenum (Patouillard) Hedgcock & N.R. Hunt

Cronartium filamentosum Hedgcock

Cronartium flaccidum (Albertini & Schweinitz) G. Winter

As *Peridermium pini* (Aime *et al.* 2018).

Cronartium quercuum (Berkeley) Miyabe ex Shirai

Cronartium ribicola J.C. Fischer

Crucibulum crucibuliforme (Scopoli) V.S. White {C}

Crumenulopsis pinicola (Rebentisch) J.W. Groves

Cryphonectria parasitica (Murrill) M.E. Barr

Cryphonectria radicalis M.E. Barr

Cryptocline taxicola (Allescher) Petrak {!, C}

A collection of mine from the Ohio State campus (MO#401481) is identified as this species.

Cryptodiaporthe tiliacea (Ellis) Lar.N. Vassiljeva

Cryptodiscus pallidus (Persoon) Corda

Cryptodiscus stereicola (Berkeley & M.A. Curtis) Sherwood

Cryptoporus volvatus (Peck) Shear {C}

Cryptosporium prunicola Ellis & Everhart {O}

Cryptovalsa prominens (Howe) Berlese

Cucurbitaria caraganae P. Karsten

Cucurbitaria delitescens Saccardo

Cucurbitaria erratica Peck {O}

Cucurbitaria gleditschiae (Schweinitz) Cesati & De Notaris

Cudoniella acicularis (Bulliard) J. Schröter {C}

Cuphophyllus angustifolius (Murrill) Bon {!, C}

A collection of mine from the Clear Fork Reservoir Public Hunting and Fishing Area

(MU 000296871) is identified as this species.

Cuphophyllus borealis (Peck) Bon ex Courtec.

Cuphophyllus colemaniianus (A. Bloxam) Bon {!, C}

Two collections of mine (MU 000296896 and MU 000297132) are identified as this species.

Cuphophyllus lacmus (Schumacher) Bon

Cuphophyllus pratensis (Schaeffer) Bon {C}

Cuphophyllus recurvatus (Peck) Lebeuf

Cuphophyllus virgineus (Wulfen) Kovalenko {C}

Curvularia crepinii (Westendorp) Boedijn

Cyanodermella viridula (Berkeley & M.A. Curtis) O.E. Eriksson

Cyathicula coronata (Bulliard) De Notaris

Cyathicula cyathoidea (Bulliard) Thümen

Cyathicula dolosella (P. Karsten) Dennis

Cyathus olla (Batsch) Persoon

Cyathus stercoreus (Schweinitz) De Toni

Cyathus striatus (Hudson) Willdenow

Cyclocybe aegerita (V. Brig.) Vizzini

Cyclocybe erebia (Fries) Vizzini & Matheny {C}

Cyclomyces setiporus (Berkeley) Patouillard

Cyclothyriella rubronotata (Berkeley & Broome) Jaklitsch & Voglmayr

Cylindrobasidium evolvens (Fries) Jülich {C}

Cylindrobasidium torrendii (Bresadola) Hjortstam

Cylindrocolla alba Saccardo & Roumeguère

The genus *Cylindrocolla* is a junior synonym of *Calloria*, but it is unclear whether this species belongs there (Johnston *et al.* 2014).

Cylindrocolla lactea Saccardo & Ellis

The genus *Cylindrocolla* is a junior synonym of *Calloria*, but it is unclear whether this species belongs there (Johnston *et al.* 2014).

Cylindrosporium acori Peck

Cylindrosporium irregularare (Peck) Dearnell

Cylindrosporium negundinis Ellis & Everhart

Cylindrosporium rubi Ellis & Morgan {O}

Cylindrosporium toxicodendri (M.A. Curtis) Ellis & Everhart

Cylindrosporium viridis Ellis & Everhart

Cymatoderma caperatum (Berkeley & Montagne) D.A. Reid

Cyphella soleniiformis (Berkeley & M.A. Curtis) Massee

Cystoagaricus hirtosquamulosus (Peck) Örstadius & E. Larsson {!, C}

Two collections of mine (MO#392239 and MO#296330) are identified as this species.

This taxonomy of this genus is currently being revised (Stephen Russell) and the identification of these collections as *C. hirtosquamulosus* should be treated as tentative.

Cystoagaricus weberi (Murrill) Voto

Cystocoleus ebeneus (Dillwyn) Thwaites {L}

Cystoderma amianthinum (Scopoli) Fayod

Cystoderma carcharias (Persoon) Fayod

Cystoderma fallax A.H. Smith & Singer

Cystoderma granosum (Morgan) A.H. Smith & Singer {O}

Cystoderma granulosum (Batsch) Fayod

Cystodermella adnatifolia (Peck) Harmaja

Cystodermella cinnabarinna (Albertini & Schweinitz) Harmaja

Cystolepiota hetieri (Boudier) Singer

Cystolepiota pusillomyces (Peck) Redhead

Cystolepiota seminuda (Lasch) Bon {C}

Cystostereum murrayi (Berkeley & M.A. Curtis) Pouzar

Cytidia salicina (Fries) Burt

Cytodiplospora castaneae Oudemans

Cytospora ailanthi Saccardo

Cytospora ceratosperma (Tode) G.C. Adams & Rossman

As *Valsa floriformis* and *V. frustrum-coni* (Spielman 1985).

Cytospora chrysosperma (Persoon) Fries

Cytospora coenobitica Saccardo

Cytospora kunzei Saccardo

Cytospora leucosperma (Persoon) Fries

Cytospora leucostoma (Persoon) Saccardo

Cytospora minuta Thümen

Cytospora nivea Fuckel

Cytospora pinastri Fries

Cytospora populina (Persoon) Rabenhorst

Dacrymyces capitatus Schweinitz

Dacrymyces chrysospermus Berkeley & M.A. Curtis

Dacrymyces ellisii Coker

Dacrymyces enatus (Berkeley & M.A. Curtis) Massee

Dacrymyces fuscominus Coker

Dacrymyces minor Peck {C}

Dacrymyces stillatus Nees {C}

Dacrymyces tortus (Willdenow) Fries

Dacryobolus karstenii (Bresadola) Oberwinkler ex Parmasto

Dacryobolus sudans (Albertini & Schweinitz) Fries

Dacryopinax elegans (Berkeley & M.A. Curtis) G.W. Martin {C}

Dacryopinax spathularia (Schweinitz) G.W. Martin

Dactylaria parvispora (Preuss) de Hoog & Arx

Dactylospora stygia (Berkeley & M.A. Curtis) Hafellner {!, C}

A collection of mine from Marblehead Lighthouse State Park (MO#367870) is identified as this species.

Daedalea quercina (Linnaeus) Persoon {C}

Daedaleopsis confragosa (Bolton) J. Schröter

Daedaleopsis septentrionalis (P. Karsten) Niemelä {!, C}

A collection of mine from Camp Asbury in Hiram (MO#294397) is identified as this species.

Daldinia asphalatum (Link ex Fries) Saccardo

A G. D. Smith collection (BPI 716992) identified in Mycoportal as "Daldinia loculata" represents this species instead (Stadler *et al.* 2014).

Daldinia childiae J.D. Rogers & Y.M. Ju

Daldinia grandis Child

Daldinia loculata (Léveillé) Saccardo

Daldinia vernicosa Cesati & De Notaris {O}

Daleomyces petersii (Berkeley) Van Vooren

As *Peziza proteana* (Van Vooren 2020).

Dasyscyphella nivea (R. Hedwig) Raitviir {C}

Dasyscyphus turbinulatus (Schweinitz) Saccardo

Dasyscyphus viridulus (Schrader) Saccardo {O}

Datronia mollis (Sommerfelt) Donk

Datroniella scutellata (Schweinitz) B.K. Cui, Hai J. Li & Y.C. Dai

Deconica cokeriana (A.H. Sm. & Hesler) Ram.-Cruz & A. Cortés-Pérez {!, C, S}

A collection of mine from the Ohio State Campus (MU 000292853) was initially misidentified as *D. xeroderma*. This collection is pictured in Fig. 1B. An ITS sequence was obtained for this collection, and it was based on this sequence that Ramírez-Cruz *et al.* (2019) identified this collection as *D. cokeriana*.

Deconica coprophila (Bulliard) P. Karsten

Deconica inquilina (Fries) Romagnesi

Deconica merdaria (Fries) Noordeloos

Deconica montana (Persoon) P.D. Orton

Deconica phyllogena (Peck) Noordeloos {!, C}

A collection of mine from Willoughby (MO#207838) is identified as this species.

Deconica xeroderma (Huijsman) Noordeloos {!, C}

A collection of mine from Blacklick Woods Metro Park (MU 000296842) is identified as this species. This species was identified using Guzmán's (1983) monograph of *Psilocybe*, which treats collections now classified in *Deconica*. Guzmán's concept of *D. xeroderma* may have been overly broad, as a collection identified as *D. xeroderma sensu* Guzmán (MU 000292853) was identified as *D. cokeriana* based on its ITS sequence by Ramírez-Cruz *et al.* (2019). Because of this, the identification of MU 000296842 as *D. xeroderma* should be treated as tentative.

Delicatula integrella (Persoon) Fayod*Dematiostypha delicata* (Berkeley & Broome) Hosoya*Dematium brunneum* P. Karsten*Dematium fungorum* Persoon*Dendrocorticium macrosporum* (Bresadola) Boidin, Lanquetin & Duhem {O}*Dendrocorticium roseocarneum* (Schweinitz) M.J. Larsen & Gilbertson*Dendrographa leucophaea* (Tuckerman) Darbishire {L}*Dendrophoma tiliae* Peck*Dendrophora albobadia* (Schweinitz) Chamuris {C}*Dendrophora versiformis* (Berkeley & M.A. Curtis) Chamuris*Dendrostoma castaneum* (Tulasne & C. Tulasne) Voglmayr & Jaklitsch*Dendrostoma leiphaemia* (Fries) Senanayake & K.D. Hyde

Dendrothele acerina (Persoon) P.A. Lemke

Dendrothele candida (Schweinitz) P.A. Lemke

Dendrothele griseocana (Bresadola) Bourdot & Galzin

Dendrothele macrodens (Coker) P.A. Lemke

Dendrothele nivosa (Berkeley & M.A. Curtis ex Höhnel & Litschauer) P.A. Lemke

This is not a true *Dendrothele* but its proper generic placement is unclear. It may belong in the Russulales.

Dendrothele seriata (Berkeley & M.A. Curtis) P.A. Lemke

Dendryphiella vinosa (Berkeley & M.A. Curtis) Reisinger

Densocarpa shanorii Gilkey {!, C, S}

Two collections of mine (FLAS-F-60786 and MO#314954) are identified as this species. An ITS sequence from FLAS-F-60786 also supports this identification. This species is occasional in floodplains in the hardwood forests in Central Ohio in the Spring and can be recognized in part by its strong foul odor.

Dentipellicula leptodon (Montagne) Y.C. Dai & L.W. Zhou

Dentipellis ohiensis (Berkeley) Nakasone {O}

Dentocorticium portoricense (Sprengel ex Fries) Nakasone & S.H. He {C}

Dermatocarpon americanum Vainio {L}

Dermatocarpon arenosaxi Amtoft {L}

Dermatocarpon dolomiticum Amtoft {L}

Dermatocarpon luridum (Dillenius ex Withering) J.R. Laundon {L}

Dermatocarpon miniatum (Linnaeus) W. Mann {L}

Dermatocarpon miniatum var. *fulvofuscum* (Tuck.) Zahlbr. {L}

Dermatocarpon muhlenbergii (Acharius) Müller Arg. {L}

Dermatocarpon rivulorum (Arnold) Dalla Torre & Sarnthein {L}

Dialonectria episphaeria (Tode) Cooke

Dialonectria sanguinea (Bolton) Cooke

Diaphanium lacteum Fries

Diaporthe apocrypta (Cooke & Ellis) Saccardo

Diaporthe arctii (Lasch) Nitschke

Diaporthe bicincta (Cooke & Peck) Saccardo

Diaporthe carpini Saccardo

Diaporthe eres Nitschke

Diaporthe juniperivora (G.G. Hahn) Rossman & Udayanga

Diaporthe neoviticola (Sacc.) Udayanga, PW Cous & KD Hyde

Diaporthe oncostoma (Duby) Fuckel

Diaporthe orthoceras (Fries) Nitschke

Diaporthe phaseolorum (Cooke & Ellis) Saccardo

Diaporthe pustulata Saccardo

Diaporthe sojae Lehman

Diaporthe strumella (Fries) Fuckel

Diatrype albopruinosa (Schweinitz) Cooke

Diatrype callicarpae Berkeley & Ravenel

Diatrype decorticata Rappaz

Diatrype disciformis (Hoffmann) Fries

Diatrype hochelagae Ellis & Everhart

Diatrype stigma (Hoffmann) Fries

Diatrype undulata (Persoon) Fries

Diatrype virescens (Schweinitz) Ravenel {C}

Diatrypella nigroannulata (Greville) Nitschke

Diatrypella quercina (Persoon) Cooke

Dibaeis absoluta (Tuckerman) Kalb & Gierl {L}

Dibaeis baeomyces (Linnaeus f.) Rambold & Hertel {L}

Dichomera saubinetii (Durieu & Montagne) Cooke

Dichomyces furciferus Thaxter

Dichostereum effuscatum (Cooke & Ellis) Boidin & Lanquetin {C}

Dichostereum granulosum (Fries) Boidin & Lanquetin

Dichostereum pallescens (Schweinitz) Boidin & Lanquetin

Dichostereum peniophoroides (Burt) Boidin & Lanquetin

Dichotomopilus funicola (Cooke) X. Wei Wang & Samson

Dictyocatenulata alba Finley & E.F. Morris {L}

Dictyochaetopsis apicalis (Berkeley & M.A. Curtis) Arambarri & Cabello

Dictyocheirospora heptaspora (Garov) D'souza, Boonmee & K.D. Hyde

Didymella exigua (Niessl) Saccardo

Didymella lophospora (Saccardo & Spegazzini) Saccardo

Didymella macrostoma (Montagne) Qian Chen & L. Cai

Didymella pinodella (L.K. Jones) Qian Chen & L. Cai

Didymella protuberans (Léveillé) Qian Chen & L. Cai

Didymella rhei (Ellis & Everhart) Qian Chen & L. Cai

Didymella solani (Ellis & Everhart) W. Gams & Gerlagh

Didymocyrtis melanelixiae (Brackel) Diederich, Harris & Etayo

Diehlomyces microsporus (Diehl & E.B. Lambert) Gilkey {O}

Dimelaena oreina (Acharius) Norman {L}

Dimorphomyces muticus Thaxter

Dinemasporium decipiens (De Notaris) Saccardo

Dinemasporium pezizula Berkeley & M.A. Curtis

Dinemasporium robiniae W.R. Gerard

Diplocarpon mespili (Sorauer) B. Sutton

Diplocarpon rosae F.A. Wolf

Diplococcum indivisum (Saccardo) S. Hughes

Diplodia gallae (Schweinitz) P.W. Crous

Diplodia glandicola Cooke & Ellis

Diplodia gleditschiae Passerini

Diplodia longispora Cooke & Ellis

Diplodia melaena Léveillé

Diplodia rosae Westendorp

Diplodia rudis Desmazières

Diplodia sophorae Spegazzini & Saccardo

Diplodia vincae Saccardo & G. Winter {O}

Diplodia virginiana Cooke & Ravenel

Diplodina acerina (Passerini) B. Sutton

Diplodina stenospora (Berkeley & M.A. Curtis) Saccardo

Diplomitoporus overholtsii (Pilát) Gilbertson & Ryvarden

Diploschistes actinostomus (Persoon) Zahlbruckner {L}

Diploschistes muscorum (Scopoli) R. Santesson {L}

Diploschistes scruposus (Schreber) Norman {L}

Diplosporonema delastrei (Lacroix) Petrak

Diplotomma alboatrum (Hoffmann) Flotow {L}

Diplotomma venustum (Körber) Körber {L}

Dirinaria frostii (Tuckerman) Hale & W.L. Culberson {L}

Dirinaria picta (Swartz) Clements & Shear {L}

Disciotis maturescens Boudier

Disciotis venosa (Persoon) Boudier {C}

Disciseda bovista (Klotzsch) P. Henn.

Disciseda candida (Schweinitz) Lloyd

Discosia artocreas (Tode) Fries

Discosia fraxinea (Schweinitz) Nag Raj {!, C}

A collection of mine from the Ohio State University campus on *Amelanchier alnifolia* (MO#401378) is identified as this species.

Discosia rugulosa Berkeley & M.A. Curtis

Discostroma corticola (Fuckel) Brockmann

Discula destructiva Redlin

Discula discoidea (Cooke & Peck) House

Discula sassafras (Cooke) Arx

Dispira cornuta Tieghem

Distocercosporaster dioscoreae (Ellis & G. Martin) Videira, H.D. Shin, C. Nakashima & Crous

Distopyrenis americana Aptroot {L}

Ditiola radicata (Albertini & Schweinitz) Fries

Dolichousnea longissima (Acharius) Articus {L}

Donkia pulcherrima (Berkeley & M.A. Curtis) Pilát {C}

Donkioporia expansa (Desmazières) Kotlaba & Pouzar {O}

Dothichiza foveolaris (Fries) Petrak

Dothidea collecta (Schweinitz) Ellis & Everhart

Dothidea solidaginis (Fries) Fries

Dothidella ulmi (C.-J. Duval) G. Winter

Dothiorella aberrans Peck {O}

Dothiorella sarmentorum (Fries) A.J.L. Phillips, Alves & Luque

Dothiorella smilacina (Peck) Petrak & Sydow

Dothiorella ulmi Verrall & C. May

Dothistroma pini Hulbary

Dothistroma septosporum (Doroguine) M. Morelet

Drechslera avenacea (M.A. Curtis ex Cooke) Shoemaker

Drechslera bromi (Diedicke) Shoemaker

Drechslera gigantea S. Ito

Drepanopeziza brunnea (Ellis & Everhart) Rossman & W.C. Allen

Drepanopeziza populi (Libert) Rossman & W.C. Allen

Drepanopeziza ribis (Klebahn) Höhnel

Ductifera pululahuana (Patouillard) Wells {C}

Dumontinia tuberosa (Bulliard) L.M. Kohn

Duportella malenconii (Boidin & Lanquetin) Hjortstam

Durandiella fraxini (Schweinitz) Seaver

Echinoderma asperulum (G.F. Atkinson) Bon

Echinoderma asperum (Persoon) Bon {C}

Echinosphaeria canescens (Persoon) A.N. Miller & Huhndorf

Ectostroma liriodendri Kunze ex Fries

Eichleriella macrospora (Ellis & Everhart) G.W. Martin {O,C}

A collection of mine (MO#355899) is pictured in Fig. 1C.

Elaiopezia waltersii (Seaver) Grootmyers, Healy & Van Vooren {O,C, S, *}

A fairly common species on hardwood logs in Central Ohio. This species was transferred from *Peziza* to the genus *Elaiopezia* on the basis of ITS and LSU sequence data obtained from my collections during the course of this study (Van Vooren 2021). A collection of mine (MO#365509) is pictured in Fig. 1D.

Eleutheromyces subulatus (Tode) Fuckel

Elsinoë necator (Ellis & Everhart) Rossman & W.C. Allen

Elsinoë rosarum Jenkins & Bitancourt

Emmia latemarginata (Durieu & Montagne) Zmitrovich, Spirin & Malysheva

Enchylium bachmanianum (Fink) Otálora, P.M. Jørgensen & Wedin {L}

Enchylium coccophorum (Tuckerman) Otálora, P.M. Jørgensen & Wedin {L}

Enchylium conglomeratum (Hoffmann) Otálora, P.M. Jørgensen & Wedin {L}

Enchylium polycarpon (Hoffmann) Otálora, P.M. Jørgensen & Wedin {L}

Enchylium tenax (Swartz) Gray {L}

Encoelia furfuracea (Roth) P. Karsten

Endocarpon pallidulum (Nylander) Nylander {L}

Endocarpon pallidum Acharius {L}

Endocarpon petrolepideum (Nylander) Nylander {L}

Endocarpon pusillum Hedwig {L}

Endococcus propinquus (Körber) D. Hawksworth

Endoconidiophora coerulescens Münch

Endophyllum euphorbiae-silvaticae (DeCandolle) G. Winter

Endoraecium phyllodiorum (Berkeley & Broome) Berndt

Endothiella gyrosa Saccardo

Endothlaspis sorghi Sorokin {H}

Four W. A. Kellerman collections (MA-Fungi 30903, MA-Fungi 30902, MA-Fungi 30901 and MA-Fungi 30900) at MA are identified as this species (Herbario de Criptogamia 2020).

Endoxyla avocetta (Cooke & Ellis) A.I. Romero & Samuels

Enterographa hutchinsiae (Leighton) A. Massalongo {L}

Enterographa zonata (Körber) Källsten ex Torrente & Egea {L}

Entoleuca mammata (Wahlenberg) J.D. Rogers & Y.M. Ju

Entoloma abortivum (Berkeley & M.A. Curtis) Donk {C}

Entoloma aprile (Britzelmayr) Saccardo

Entoloma asprellum (Fries) Fayod

Entoloma carneogriseum (Berkeley & Broome) Noordeloos

Entoloma cetratum (Fries) M.M. Moser

Entoloma clypeatum (Linnaeus) P. Kummer

Entoloma conicum (Saccardo) Hesler

Entoloma cuboideum Hesler {!, C}

A collection of mine from the Penitentiary Glen Reservation (MO#378825) is identified as this species.

Entoloma cyaneum Saccardo

Entoloma dysthaloides Noordeloos {!, C, S}

Two collections of mine (MO#174166 and MO#290762) are identified as this species. ITS sequences were obtained for both of these collections but sequences for other collections identified as *E. dysthaloides* were lacking in GenBank.

Entoloma fibrillosipes (Murrill) Noordeloos & Co-David

Entoloma flavoviride Peck

Entoloma formosum (Fries) Noordeloos {!, C}

A collection of mine from Tar Hollow State Park (MO#383258) is identified as this species.

Entoloma grande Peck

Entoloma grayanum (Peck) Saccardo

Entoloma griseum Peck

Entoloma hirtum (Velenovský) Noordeloos {!, C}

A collection of mine from Academy Park in Gahanna (MO#303456) is identified as this species.

Entoloma incanum (Fries) Hesler

Entoloma jubatum (Fries) P. Karsten

Entoloma mammosum (Linnaeus) Hesler

Entoloma multiforme (Peck) Kokkonen {!, C}

A collection of mine from the Chapin Forest Reservation (MO#379480) is identified as this species. An ITS sequence was obtained for this collection, but sequences are lacking in GenBank for other collections identified as *E. multiforme*.

Entoloma murinum Peck {!, C}

A collection of mine from Blacklick Woods Metro Park (MO#355239) is identified as this species. An ITS sequence was obtained for this collection, but sequences were lacking in GenBank for other collections identified as *E. murinum*.

Entoloma murrayi (Berkeley & M.A. Curtis) Saccardo

Entoloma murrillii Hesler

Entoloma nidorosum (Fries) Quélet

Entoloma nodosporum (G.F. Atkinson) Noordeloos

Entoloma occidentale (Murrill) Blanco-Dios {!,#}

A collection by Crystal Davidson from Sycamore Park in Batavia (MO#261277) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search on this sequence supports its identification as *E. occidentale*.

Entoloma papillatum (Bresadola) Dennis

Entoloma parvum (Peck) Hesler

Entoloma pascuum (Persoon) Donk

Entoloma politum (Persoon) Donk

Entoloma porphyrophaeum (Fries) P. Karsten

Entoloma quadratum (Berkeley & M.A. Curtis) E. Horak

Entoloma rhodopolium (Fries) P. Kummer

Entoloma rusticoides (Gillet) Noordeloos

Entoloma sericellum (Fries) P. Kummer

Entoloma sericeum Quélet

Entoloma serrulatum (Fries) Hesler

Entoloma sinuatum (Bulliard ex Persoon) P. Kummer

Entoloma squamatum Hesler

Entoloma strictius (Peck) Saccardo

Entoloma strictius var. *isabellinum* Peck {!, C}

A collection of mine from Shafer Park in Westerville (MO#287144) is identified as this species.

Entoloma strigosissimum (Rea) Noordeloos

Entoloma subcostatum G.F. Atkinson {O}

Entoloma vernum S. Lundell

Entoloma watsonii (Peck) Noordeloos

Entomophthora muscae (Cohn) Fresenius

Entomophthora sphaerosperma Fresenius

Entyloma australe Spegazzini

Entyloma compositarum Farlow

Entyloma eryngii (Corda) de Bary

Entyloma linariae J. Schröter

Entyloma lobeliae Farlow

Entyloma menispermi Farlow & Trelease

Entylomella circinans (G. Winter) Höhn ex Ciferri

Eocronartium muscicola (Persoon) Fitzpatrick {C}

Eopyrenula leucoplaca (Wallroth) R.C. Harris {L}

Ephebe lanata (Linnaeus) Vainio {L}

Epichloë amarillans J.F. White

Epicladonia stenospora (Harmand) D. Hawksworth

Epicoccum equiseti (Berkeley) Berkeley

Epicoccum nigrum Link

Epicoccum sphaerospermum Berkeley

Erastia salmonicolor (Berkeley & M.A. Curtis) Niemelä & Kinnunen

Eriopezia caesia (Persoon) Rehm

Erysiphe adunca (Wallroth) Schlechtendal

Erysiphe alphitoides (Griffon & Maublanc) U. Braun & S. Takamatsu

Erysiphe caprifoliacearum (U. Braun) U. Braun & S. Takamatsu

Erysiphe caprifoliacearum var. *flexuosa* (U. Braun) U. Braun & S. Takamatsu

Erysiphe cichoracearum DeCandolle {!, C}

A collection of mine on Monarda sp. from the Penitentiary Glen Reservation
(MO#378824) is identified as this species.

Erysiphe clintonii (Peck) U. Braun & S. Takamatsu

Erysiphe diffusa (Cooke & Peck) U. Braun & S. Takamatsu

Erysiphe elevata (Burrill) U. Braun & S. Takamatsu

Erysiphe euphorbiae Peck

Erysiphe extensa (Cooke & Peck) U. Braun & S. Takamatsu

Erysiphe flexuosa (Peck) U. Braun & S. Takamatsu

Erysiphe geniculata (W.R. Gerard) U. Braun & S. Takamatsu

Erysiphe intermedia (U. Braun) U. Braun {H}

Three F. D. Kelsey collections (F308729, F308730 and F308732) at S are identified as this species.

Erysiphe lamprocarpa (Wallroth) Schlechtendal

Erysiphe liriodendri Schweinitz {!, C}

A collection of mine from Mercer Woods (MO#314938) on *Liriodendron tulipifera* is identified as this species.

Erysiphe lonicerae DeCandolle {C}

Erysiphe ludens (E.S. Salmon) U. Braun & S. Takamatsu

Erysiphe macrospora (Peck) U. Braun & S. Takamatsu

Erysiphe menispermi (Howe) U. Braun & S. Takamatsu

Erysiphe necator Schweinitz

Erysiphe parvula (Cooke & Peck) U. Braun & S. Takamatsu

Erysiphe peckii (U. Braun) U. Braun & S. Takamatsu

Erysiphe penicillata (Wallroth) Schlechtendal

Erysiphe pisi DeCandolle

Erysiphe platani (Howe) U. Braun & S. Takamatsu

Erysiphe polygoni DeCandolle {C}

Erysiphe ravenelii (Berkeley) U. Braun & S. Takamatsu

Erysiphe russellii (Clinton) U. Braun & S. Takamatsu

Erysiphe syphoricarpi (Howe) U. Braun & S. Takamatsu

Erysiphe syringae Schweinitz

Erysiphe trifoliorum (Wallroth) U. Braun

Erysiphe viburni Duby

Erythricium aurantiacum (Lasch) D.Hawksw. & A. Henrici {C}

Etheirodon fimbriatum (Persoon) Banker {C}

Euphoriomyces cioideus Thaxter {O}

Eutypa flavovirens (Persoon) Tulasne & C. Tulasne

Eutypa lata (Persoon) Tulasne & C. Tulasne

Eutypa leioplaca (Fries) Cooke

Eutypa ludibunda (Saccardo) Thümen

Eutypa maura (Fries) Saccardo

Eutypa polycocca (Fries) P. Karsten

Eutypa polymorpha (Nitschke) Saccardo

Eutypa spinosa (Persoon) Tulasne & C. Tulasne

Eutypa velutina (Westendorp & Wallays) Saccardo

Eutypella cerviculata (Fries) Saccardo

Eutypella confluens (Nitschke) Saccardo

Eutypella conceptata (Schwein.) Ellis & Everh.

Eutypella constellata (Berkeley & M.A. Curtis) Berlese & Voglino

Eutypella deusta (Ellis & Everh.) Ellis & Everh.

Eutypella dissepta (Fries) Rappaz

Eutypella fici Ellis & Everhart

Eutypella fraxinicola (Cooke & Peck) Saccardo

Eutypella glandulosa (Cooke) Ellis & Everh.

Eutypella goniostoma (Berkeley & M.A. Curtis) Saccardo

Eutypella juglandina (Cooke & Ellis) Saccardo

Eutypella leaiana (Berkeley) Saccardo {O}

Eutypella longirostris Peck

Eutypella microcarpa Ellis & Everhart

Eutypella microsperma P. Karsten & Malbranche

Eutypella prunastri (Persoon) Saccardo

Eutypella quaternata (Persoon) Rappaz

Eutypella stellulata (Fries) Saccardo

Eutypella vitis (Schweinitz) Ellis & Everhart

Everhartia lignatilis Thaxter {!, C}

A collection of mine from Madison Township in Perry County (MO#364150) is identified as this species.

Evernia mesomorpha Nylander {L}

Evernia prunastri (Linnaeus) Acharius {L}

Exidia beardsleei Lloyd

May be a synonym of *E. repanda* (Olive 1951).

Exidia crenata (Schweinitz) Fries

Exidia glandulosa (Bulliard) Fries

Exidia recisa (Ditmar) Fries {C}

Exidia spiculata Schweinitz

May be a synonym of *E. nigricans* (Ginns and Lefebvre 1993).

Exidiopsis calcea (Persoon) K. Wells {H}

W. B. Cooke collection at K (Kew Mycology Collection 2020).

Exidiopsis molybdea (McGuire) Ervin {!, C}

A collection of mine from Clinton-Como park (MO#406201) is identified as this species.

Exoascus australis G.F. Atkinson

Exobasidium maculosum M.T. Brewer {!, C}

A collection of mine from Zaleski State Forest (MO#414803) on *Vaccinium angustifolium* is identified as this species.

Exobasidium rostrupii Nannfeldt {!, C}

A collection of mine from Brown's Lake Bog (MO#396933) on *Vaccinium macrocarpon* is identified as this species.

Exobasidium vaccinii (Fuckel) Woronin

Exserohilum turcicum (Passerini) K.J. Leonard & Suggs

Fellhanera fallax R.C. Harris & Lendemer {L}

Fellhanera granulosa R.C. Harris & Lendemer {L}

Fellhanera hybrida R.C. Harris & Lendemer {L}

Fellhanera minnisinkorum R.C. Harris & Lendemer {L}

Fellhanera silicis R.C. Harris & Ladd {L}

Femsjonia peziziformis (Léveillé) P. Karsten

Fibroporia radiculosus (Peck) Parmasto {C}

Fibroporia vaillantii (DeCandolle) Parmasto

Fimicolochytrium alabamae D.R. Simmons & Longcore

Fistulina hepatica (Schaeffer) Withering

Flagelloscypha langloisii (Burt) Agerer {!, C}

A collection of mine from Mohican State Park (MO#371559) is identified as this species.

Flagelloscypha minutissima (Burt) Donk

Flakea papillata O.E. Eriksson {L}

Flammula alnicola (Fries) P. Kummer

Flammula praecox Peck

Flammulaster erinaceellus (Peck) Watling {C}

Flammulaster muricatus (Fries) Watling

Flammulina velutipes (Curtis) Singer

Flavoparmelia baltimorensis (Gyelnik & Fóriss) Hale {L}

Flavoparmelia caperata (Linnaeus) Hale {L}

Flavoplaca citrina (Hoffmann) Arup, Frödén & Søchting {L}

Flavoplaca flavocitrina (Nylander) Arup, Frödén & Søchting {L}

Flavopunctelia flaventior (Stirton) Hale {L}

Flavopunctelia soredica (Nylander) Hale {L}

Fomes fomentarius (Linnaeus) Fries

Fomitiporia dryophila Murrill

Fomitiporia robusta (P. Karsten) Fiasson & Niemelä

Fomitopsis betulina (Bulliard) B.K. Cui, M.L. Han & Y.C. Dai

Fomitopsis durescens (Overholts ex J. Lowe) Gilbertson & Ryvarden {O}

Fomitopsis meliae (Underwood) Gilbertson

Fracchiaea broomeana (Berkeley) Petch {C}

Fulvifomes inermis (Ellis & Everhart) Y.C. Dai

Fulvifomes johnsonianus (Murrill) Y.C. Dai

Fulvifomes melleoporus (Murrill) Baltazar & Gibertoni

Fulvifomes robiniae (Murrill) Murrill {O,C}

Fusarium culmorum (W.G. Smith) Saccardo

Fusarium equiseti (Corda) Saccardo

Fusarium miniatum (Berkeley & M.A. Curtis) Saccardo

Fusarium roseum Link

Fusarium salicis Fuckel

Fusarium verticillioides (Saccardo) Nirenberg

Fuscidea arboricola Coppins & Tønsberg {L}

Fuscidea cyathoides (Acharius) V. Wirth & Vezda {L}

Fuscidea recensa (Stirton) Hertel, V. Wirth & Vezda {L}

Fuscopannaria leucosticta (Tuckerman) P.M. Jørgensen {L}

Fuscoporia contigua (Persoon) G. Cunningham

Fuscoporia ferruginosa (Schrader) Murrill

Fuscoporia gilva (Schweinitz) T. Wagner & M. Fischer

Fuscoporia viticola (Schweinitz) Murrill

Fusicoccum depressum (Berkeley & Broome) Grove

Fusidium aeruginosum Link

Fusidium caesium Schweinitz

Fusidium clandestinum Corda

Fusidium griseum Link

Fusidium viride Persoon

Fusisporium tenuissimum Peck

Gabura fasciculare (Linnaeus) P.M. Jørgensen {L}

Galactinia granulosa (Schumacher) Le Gal

Galerina helvoliceps (Berkeley & M.A. Curtis) Singer

Galerina marginata (Batsch) Kühner

Galerina paludosa (Fries) Kühner

Galerina sphagnorum (Persoon) Kühner {B}

Kellerman (1905d) cites a collection from Buckeye Lake (as *Galera sphagnum* [sic]).

This collection may be at OS, which is not accessible on MyCoPortal.

Galerina triscopa (Fries) Kühner

Galiella rufa (Schweinitz) Nannfeldt & Korf {C}

Galzinia incrustans (Höhnel & Litschauer) Parmasto

Ganoderma applanatum (Persoon) Patouillard {C}

Ganoderma curtisii (Berkeley) Murrill

Ganoderma lobatum (Schweinitz) G.F. Atkinson

Ganoderma sessile Murrill

Ganoderma tsugae Murrill {C}

Gassicurtia vernicoma (Tuckerman) Marbach {L}

Geastrum asperum Lloyd

Geastrum campestre Morgan {H}

A C. G. Lloyd collection (F307615) at S is identified as this species.

Geastrum corollinum (Batsch) Hollós

Geastrum coronatum Persoon

Geastrum elegans Vittadini

Geastrum fimbriatum Fries

Geastrum floriforme Vittadini

Geastrum fornicatum (Hudson) Hooker

Geastrum javanicum Léveillé

Geastrum lageniforme Vittadini

Geastrum michelianum Berkeley & Broome {H}

A C. G. Lloyd collection (F307902) and two W. B. Cooke collections (F307906 and F307909) S are identified as this species.

Geastrum minimum Schweinitz {B}

Kellerman (1907d) cites a M. E. Hard collection from Ohio. This collection may be at OS, which is not accessible on MyCoPortal.

Geastrum morganii Lloyd {O}

Geastrum pectinatum Persoon

Geastrum quadrifidum Persoon

Geastrum rufescens Persoon

Geastrum saccatum Fries

Geastrum schmidelii Vittadini {C}

Geastrum smardae V.J. Stanek

Geastrum smithii Lloyd

Geastrum striatum DeCandolle {C}

Geastrum triplex Junghuhn

Geastrum velutinum Morgan {O}

Geastrum welwitschii Montagne

Geoglossum difforme Fries {C}

Geoglossum nigritum Cooke

Geoglossum simile Peck {!, C}

A collection of mine from Tar Hollow State Park (MO#371219) is identified as this species.

Geopora arenicola (Léveillé) Kers

Geopora arenosa (Fuckel) S. Ahmad

Geoscypha ampelina (Gillet) Van Vooren & Dougoud

Geoscypha violacea (Persoon) Lambotte

Geranomyces variabilis (Longcore, D.J.S. Barr & Désaulniers) D.R. Simmons

Gerronema strombodes (Berkeley & Montagne) Singer {O,C}

Gibbera confertissima (Ellis & Everhart) Sivanesan {O}

Gibbera pilosella (Ellis & Everhart) Sivanesan {O}

Gilmaniella humicola G.L. Barron

Gliocephalotrichum ohiense L.H. Huang & J.A. Schmitt {O}

Gliocladium caespitosum Petch

Gliocladium polyporicola (Hennings) K.A. Seifert & W. Gams {!, C}

A collection of mine from Flint Ridge State Park (MO#399938) is identified as this species.

Gliophorus laetus (Persoon) Herink {C, S}

Gliophorus psittacinus (Schaeffer) Herink {C}

This is likely a species group and Ohio collections identified as this species, and the group in eastern North America more generally, are in need of revision.

Globifomes graveolens (Schweinitz) Murrill {C}

Gloeocystidiellum porosum (Berkeley & M.A. Curtis) Donk

Gloeodontia discolor (Berkeley & M.A. Curtis) Boidin

Gloeohypochnicium analogum (Bourdot & Galzin) Hjortstam

Gloeophyllum abietinum (Bulliard) P. Karsten {H}

A C. G. Lloyd collection (F369025) at S is identified as the species.

Gloeophyllum odoratum (Wulfen) Imazeki {H}

A C. G. Lloyd collection (F369808) at S is identified as this species.

Gloeophyllum sepiarium (Wulfen) P. Karsten

Gloeophyllum striatum (Fries) Murrill

Gloeophyllum trabeum (Persoon) Murrill

Gloeoporus dichrous (Fries) Bresadola {C}

Gloeoporus pannocinctus (Romell) J. Eriksson

Gloeoporus thelephoroides (Hooker) G. Cunningham

Gloeosporium aceris Cooke

Not a true *Gloeosporium*. Something like *Cladosporium* or *Fusicladium* (von Arx 1970).

Gloiothele citrina (Persoon) Ginns & G.W. Freeman

Gloiothele lactescens (Berkeley) Hjortstam

Gloioxanthomyces nitidus (Berkeley & M.A. Curtis) Lodge, Vizzini, Ercole & Boertmann

Gloniopsis praelonga (Schweinitz) Underwood & Earle

Gloniopsis subrugosa (Cooke & Ellis) E.W.A. Boehm & C.L. Schoch {!, C}

A collection of mine from Academy Park in Gahanna (MO#364183) is identified as this species.

Glonium stellatum Muhlenberg

Glutinoglossum glutinosum (Persoon) Hustad, A.N. Miller, Dentinger & P.F. Cannon

Gnomonia caryae F.A. Wolf

Godronia fuliginosa (Persoon) Seaver

Godronia ribis (Fries) Seaver

Golovinomyces cichoracearum (DeCandolle) V.P. Heluta

Golovinomyces magnicellulatus (U. Braun) V.P. Heluta

Golovinomyces sordidus (L. Junell) V.P. Heluta

Gomphidius glutinosus (Schaeffer) Fries {!, C}

A collection of mine from the James H. Barrow Field Station in Garrettsville (MU 000296774) is identified as this species. This species may be rare in Ohio (Walt Sturgeon pers. comm.).

Gomphillus calycioides (Delise ex Duby) Nylander {L}

Gomphus clavatus (Persoon) Gray

Graminopassalora graminis (Fuckel) U. Braun, C. Nakashima, Videira & Crous

Granulobasidium vellereum (Ellis & Cragin) Jülich {C}

Graphiopsis chlorocephala (Fresenius) Trail {L}

Graphis scripta (Linnaeus) Acharius {L}

Graphis tenella Acharius {L}

Greeneria uvicola (Berkeley & M.A. Curtis) Punithalingam

Grifola frondosa (Dickson) Gray {C}

Grovesinia moricola (I. Hino) Redhead

Guepiniopsis buccina (Persoon) L.L. Kennedy

Gyalecta jenensis (Batsch) Zahlbruckner {L}

Gyalecta obesispora R.C. Harris & Lendemer {L}

Gyalideopsis bartramiorum Lendemer {L}

Gyalideopsis moodyae Lendemer & Lücking {L}

Gyalolechia flavorubescens (Hudson) Søchting, Frödén & Arup {L}

Gyalolechia flavovirescens (Wulfen) Søchting, Frödén & Arup {L}

Gymnoconia nitens (Schweinitz) F. Kern & Thurston

Gymnopilus aeruginosus (Peck) Singer

Gymnopilus bellulus (Peck) Murrill

Gymnopilus flavidellus Murrill {C}

Gymnopilus luteofolius (Peck) Singer

Gymnopilus luteus (Peck) Hesler {C, S}

Gymnopilus magnus (Peck) Murrill

Gymnopilus sapineus (Fries) Murrill

Gymnopilus speciosissimus Y. Lamoureux, Malloch & Thorn {!, C}

A collection of mine from Portage County (MO#299734) was identified as this species. It is likely that some Ohio collections identified as *G. junonius*, a strictly European species, represent this species instead (Thorn *et al.* 2020).

Gymnopus alkalivirens (Singer) Halling

Gymnopus androsaceus (L.) Della Maggiora & Trassinelli

Gymnopus dryophilus (Bulliard) Murrill {C}

Gymnopus dysodes (Halling) Halling

Gymnopus earleae Murrill {!, C}

A collection of mine from Highbanks Metro Park (MO#304145) is identified as this species.

Gymnopus erythropus (Persoon) Antonín, Halling & Noordeloos

Gymnopus fasciatus (Pennington) Halling

Gymnopus foetidus (Sowerby) P.M. Kirk {C}

Gymnopus hariolorum (Bulliard) Antonín, Halling & Noordeloos

Gymnopus iocephalus (Berkeley & M.A. Curtis) Halling {!, C}

A collection of mine from Blacklick Woods Metro Park (MU 000296847) is identified as this species.

Gymnopus kauffmanii (Halling) Halling {!, C}

A collection of mine from Browns Lake Bog (MO#401607) is identified as this species.

Gymnopus polyphyllus (Peck) Halling {C}

Gymnopus semihirtipes (Peck) Halling {C, S}

Gymnopus spongiosus (Berkeley & M.A. Curtis) Halling {C}

Gymnopus subsulphureus (Peck) Murrill {!, C}

A collection of mine from Shafer Park in Westerville (MO#303414) is identified as this species. This species is similar to *G. dryophilus* and is distinguished from it by the yellowish color of its caps and stems and the pink basal rhizomorphs (Halling 1983a).

Gymnopus terginus (Fries) Antonín & Noordeloos

Gymnosporangium biseptatum Ellis

Gymnosporangium clavariiforme (Wulfen) DeCandolle

Gymnosporangium clavipes Cooke & Peck

Gymnosporangium globosum (Farlow) Farlow

Gymnosporangium juniperi-virginianae Schweinitz

Gymnosporangium nidus-avis Thaxter

Gymnosporium harknessioides Ellis & Holway

Gyrographa gyrocarpa (Flotow) Ertz & Tehler {L}

Gyromitra brunnea Underwood

Gyromitra caroliniana (Bosc) Fries

Gyromitra esculenta (Persoon) Fries

Gyromitra fluctuans (Nylander) Harmaja

Gyromitra infula (Schaeffer) Quélet

Gyromitra korfii (Raitviir) Harmaja

Gyromitra leucoxantha (Bresadola) Harmaja

Gyromitra perlata (Fries) Harmaja

Gyrophanopsis polonensis (Bresadola) Stalpers & P.K. Buchanan

Gyroporus castaneus (Bulliard) Quélet {C}

Gyroporus cyanescens (Bulliard) Quélet

Gyroporus purpurinus Singer ex Davoodian & Halling {L,C}

Haematomma puniceum (Swartz) A. Massalongo

Halecania pepegospora (H. Magnusson) van den Boom {L}

Hansfordia nebularis (Cooke & Ellis) M.B. Ellis

Hansfordia pulvinata (Berkeley & M.A. Curtis) S. Hughes

Hapalopilus croceus (Persoon) Bondartsev & Singer

Hapalopilus mutans (Peck) Gilbertson & Ryvarden

Hapalopilus rutilans (Persoon) Murrill {C}

Haploporus papyraceus (Cooke) Y.C. Dai & Niemelä

Haplotrichum ochraceum (Povah) Holubová-Jechová

A possible *Botryobasidium* anamorph (Holubová-Jechová 1980).

Haplotrichum sphaerosporum (Linder) Holubová-Jechová

A possible *Botryobasidium* anamorph (Holubová-Jechová 1980).

Harknessia farinosa (Ellis) Rossman & W.C. Allen

Harpographium congestum (Berkeley & Broome) Deighton

Harpographium fasciculatum (Saccardo) Saccardo {C, S, *}

A collection of mine (MU 000292837) is identified as this species. An ITS sequence obtained from this collection places this species as belonging in *Eutypa* based on a BLAST search. *Harpographium fasciculatum* could be the anamorph of an as of yet unknown *Eutypa* species, or a species requiring a new combination in that genus.

Harzia acremonioides (Harz) Costantin

Harzia tenella (Berkeley & M.A. Curtis) D.W. Li & Neil P. Schultes

Hastodontia hastata (Litschauer) Hjortstam & Ryvarden

Hebeloma albidulum Peck

Hebeloma album Peck

Hebeloma cavipes Huijsman {!, C}

Two collections of mine (MO#262768 and MO#261213) were identified as this species by Henry Beker. These collections are currently in his herbarium.

Hebeloma crustuliniforme (Bulliard) Quélet {C}

Hebeloma erysibodes (Montagne) Saccardo {O}

Obscure species. Likely an *Inocybe* as Stover (1912) suggested. Murrill (1917) suggested it might belong in *Gymnopilus*, but this seems less likely given its growth on the ground among mosses.

Hebeloma excedens (Peck) Saccardo {!, C}

Five collections of mine (MO#302186, MO#302124, MO#263114, MO#263009 and MO#261201) were identified as this species by Henry Beker. These collections are currently in his herbarium. This is a very common species in Ohio under *Tilia* species, *Picea* species, and likely other hosts in the late Fall, early Winter and early Spring. This species is very similar to *Hebeloma mesophaeum* and some Ohio collections identified as that species from Ohio may represent this species instead (Henry Beker pers. comm.).

Hebeloma fastibile (Persoon) P. Kummer

Hebeloma megacarpum A.H. Smith ex Grilli {!, C}

A collection from Mohican State Park (MO#302183) was identified as this species by Henry Beker. This collections is currently in his herbarium.

Hebeloma mesophaeum (Persoon) Quélet

Hebeloma pascuense Peck

Hebeloma repandum (Saccardo) Konrad & Maublanc {B}

Kellerman (1907h) cites a collection from the Ohio State University campus. This collection may be at OS, which is not accessible on MyCoPortal.

Hebeloma sinapizans (Paulet) Gillet

Hebeloma sordidulum Peck

Heimioporus betula (Schweinitz) E. Horak

Helicobasidium purpureum (Tulasne) Patouillard

Helicogloea compressa (Ellis & Everhart) V. Malysheva & K. Pöldmaa {C}

Helicogloea lagerheimii Patouillard

Helicogloea sebacea (Bourdot & Galzin) V. Spirin & G. Trichies

Helicoma ambiens Morgan {O}

Helicoma limpidum Morgan {O, B}

Described from Ohio, but the type is not present in MyCoPortal (Morgan 1892). Neither Linder (1929) nor Goos (1986) examined the type in their treatments of this species. The type may be missing.

Helicoma polysporum Morgan {O, B}

The type collection is apparently at FH, or it at least was in 1986 (Goos 1986), but is not currently accessible among the FH collections digitized on MyCoPortal.

Helicoma repens Morgan {O, B}

Described from Ohio, but the type is not present in MyCoPortal (Morgan 1982). Neither Linder (1929), nor Moore (1953), nor Goos (1986) examined the type in their treatments of this species. The type may be missing.

Helicomyces ambiguus (Morgan) Linder {O, B}

The type collection is apparently at ISC, or it at least was in 1985 (Goos 1985), but it is not accessible among the ISC collections digitized on MyCoPortal.

Helicomyces paludosus (P. Crouan & H. Crouan) Boonmee & K.D. Hyde

Helicomyces roseus Link

Helicomyces scandens Morgan {O}

Heliocybe sulcata (Berkeley) Redhead & Ginns

Helminthosphaeria clavariarum (Desmazières) Fuckel

Helminthosphaeria ludens (Morgan) Huhndorf & A.N. Mill. {O}

Helminthosporium apiculatum Corda

Helminthosporium giganteum Renault & Roche

Helminthosporium oligosporum (Corda) S. Hughes

Helminthosporium persistens Cooke & Ellis

Helminthosporium tiliae (Link) Fries

Helminthosporium velutinum Link

Helotiella pygmaea Ellis & Everhart {O}

Helotium delectabile Massee & Morgan {O}

A poorly known discomycete species but a potentially distinct and valid species (Morgan 1902b). This species requires a combination in a different genus if that is the case (Dennis 1963).

Helotium midlandensis W.L. White

This species requires a combination in a different discomycete genus (Dennis 1963). Its proper generic placement is unclear.

Helvella acetabulum (Linnaeus) Quélet {C}

Helvella atra J. König

Helvella corium (O. Weberbauer) Massee

Helvella costifera Nannfeldt

Helvella crispa (Scopoli) Fries

Helvella cupuliformis Dissing & Nannfeldt {!, C}

Two collections of mine are identified as this species of mine: MO#369140 and MO#266674, which is in the herbarium of Michael Kuo.

Helvella elastica Bulliard

Helvella griseoalba N.S. Weber {!, C}

A collection of mine from Glen Helen in Yellow Springs (MO#369076) is identified as this species.

Helvella lactea Boudier {!, C}

A collection of mine from Glen Echo Park in Columbus (MO#321138) is identified as this species.

Helvella lacunosa Afzelius

Helvella leucomelaena (Persoon) Nannfeldt

Helvella macropus (Persoon) P. Karsten {C}

Helvella pezizoides Afzelius

Helvella queletii Bresadola

Helvella solitaria P. Karsten {!, C}

A collection of mine from Coopers Woods in Put-In-Bay (MO#367579) is identified as this species.

Helvella sulcata Afzelius {!, C}

Four collections of mine are identified as this species: MO#370994, MO#322752, MO#283821, and MO#265124, which is in the herbarium of Michael Kuo. It is possible that some Ohio collections identified as *H. lacunosa* represent this species instead.

Helvellosebacina helvelloides (Schweinitz) Oberwinkler, Garnica & K. Riess

Hemileccinum hortonii (A.H. Smith & Thiers) M. Kuo & B. Ortiz {C}

Hemileccinum subglabripes (Peck) Halling

Hemileucoglossum alveolatum (E.J. Durand ex Rehm) S. Arauzo {O}

Hemimycena candida (Bresadola) Singer

Hemimycena lactea (Persoon) Singer

Hemipholiota heteroclita (Fries) Bon

Hemipholiota populnea (Persoon) Bon {C, S}

Hemistropharia albocrenulata (Peck) Jacobsson & E. Larsson {C}

Hendersonia sarmentorum Westendorp

Henningsomyces candidus (Persoon) Kuntze

Heppia adglutinata A. Massalongo {L}

Heppia lutescens (Acharius) Nylander {L}

Hercospora tiliae (Persoon) Tulasne & C. Tulasne

Hericium americanum Ginns

Hericium cirrhatum (Persoon) Nikolajeva

Hericium coralloides (Scopoli) Persoon

Hericium erinaceus (Bulliard) Persoon

Herpotrichia lanuginosa (Sacc.) Ellis & Everh.

Herteliana schuyleriana Lendemer {L}

Hertelidea botryosa (Fries) Printzen & Kantvilas {L}

Heterobasidion annosum (Fries) Brefeld

Heterodermia albicans (Persoon) Swinscow & Krog {L}

Heterodermia comosa (Eschweiler) Follmann & Redón {L}

Heterodermia echinata (Taylor) W.L. Culberson {L}

Heterodermia erinacea (Acharius) W.A. Weber {L}

Heterodermia galactophylla (Tuckerman) W.L. Culberson {L}

Heterodermia granulifera (Acharius) W.L. Culberson {L}

Heterodermia obscurata (Nylander) Trevisan {L}

Heterodermia pseudospeciosa (Kurokawa) W.L. Culberson {L}

Heterodermia speciosa (Wulff) Trevisan {L}

Heterodermia squamulosa (Degelius) W.L. Culberson {L}

Heterophoma verbasci-densiflori L.W. Hou, L. Cai & Crous

Heterosporicola chenopodii (Westendorp) P.W. Crous

Hirsutella subulata Petch

Hohenbuehelia angustata (Berkeley) Singer {C}

Hohenbuehelia grisea (Peck) Singer {C}

Hohenbuehelia mastrucata (Fries) Singer {C}

Hohenbuehelia petalooides (Bulliard) Schulzer {C}

Hohenbuehelia pseudocyphelliformis Consiglio & Setti {!, C}

A collection of mine from Columbus (MO#399222) is identified as this species. Ohio collections identified as *H. cyphelliformis*, a strictly European species, likely represent this species instead (R. G. Thorn pers. comm.).

Holwaya gigantea E.J. Durand

Holwaya mucida (Schulzer) Korf & Abawi {C, S}

Including collections of the anamorph *Crinula caliciiformis*.

Homophrone cernuum (Vahl) Örstadius & E. Larsson

Homophrone spadiceum (P. Kummer) Örstadius & E. Larsson

Hortiboletus campestris (A.H. Smith & Thiers) Biketova & Wasser

Hortiboletus rubellus (Krombholz) Simonini, Vizzini & Gelardi

Humaria hemisphaerica (F.H. Wiggers) Fuckel {C}

Humaria vitigena Massee & Morgan {O}

Probably not a true *Humaria*, but the proper generic placement of this species is unclear
(Morgan 1902b).

Humaria wisconsinensis (Rehm) Seaver

Humidicutis marginata (Peck) Singer {C}

Hyalopsora polypodii (Persoon) Magnus

Hyalopus ater Corda

Hyalopus parasitans Berkeley & M.A. Curtis

Hyalopus tener Preuss

Hyalorbilia inflatula (P. Karsten) Baral & G. Marson

Hyaloscypha aureliella (Nylander) Huhtinen

Hydnellum aurantiacum (Batsch) P. Karsten

Hydnellum compactum (Persoon) P. Karsten

Hydnellum complicatum Banker

Hydnellum concrescens (Persoon) Banker

Hydnellum fennicum (P. Karsten) E. Larsson, K.H. Larsson & Kõljalg

Hydnellum ferrugineum (Fries) P. Karsten

Hydnellum peckii Banker

Hydnellum scabrosum (Fries) E. Larsson, K.H. Larsson & Kõljalg {H}

A H. C. Beardslee collection (F386617) at S is identified as this species.

Hydnellum scrobiculatum (Fries) P. Karsten

Hydnellum spongiosipes (Peck) Pouzar {C}

Hydnocristella himantia (Schweinitz) R.H. Petersen {C}

Hydnomerulius pinastri (Fries) Jarosch & Besl

Hydnophlebia chrysorhiza (Torrey) Parmasto {C}

Hydnoporia corrugata (Fries) K.H. Larsson & V. Spirin

Hydnoporia olivacea (Schweinitz) Teixeira {C}

Hydnoporia tabacina (Sowerby) V. Spirin, O. Miettinen & K.H. Larsson

Hydnnum albomagnum Banker

Hydnnum diffractum Berkeley {O}

A supposed synonym of *H. repandum*. Given that *H. repandum* is a strictly European species, this may represent an older name for one of our native *Hydnnum* species (Niskanen *et al.* 2018; Swenie, Baroni and Matheny 2018).

Hydnus mulsicolor Liimatainen & Niskanen {!, C}

Two collections of mine (TENN-F-074826 and MO#287989) are identified as this species. Some Ohio collections identified as *Hydnus repandum*, which is a strictly European species, may represent this species instead (Niskanen *et al.* 2018; Swenie, Baroni, and Matheny 2018).

Hydnus umbilicatum Peck

Hydropus arenarius (A.H. Smith) Singer {!, C}

Three collections of mine (MO#402721, MO#303565 and MO#402760) are identified as this species.

Hydropus atramentosus (Kalchbrenner) Kotlaba & Pouzar {H}

A H. C. Beardslee collection (F350121) at S is identified (as "Agaricus succosus") as this species (Smith 1947).

Hydropus floccipes (Fries) Singer

Hygrocybe acutoconica (Clements) Singer {!, C}

A collection of mine from Blendon Woods Metro Park (MU 000296755) is identified as this species.

Hygrocybe acutoconica var. *cuspidata* (Peck) Arnolds

Hygrocybe caespitosa Murrill

Hygrocybe cantharellus (Schweinitz) Murrill

Hygrocybe chlorophana (Fries) Wünsche

Hygrocybe coccinea (Schaeffer) P. Kummer

Hygrocybe coccineocrenata (P.D. Orton) M.M. Moser

Hygrocybe conica (Schaeffer) P. Kummer

Hygrocybe flavescens (Kauffman) Singer {!, C, S}

A collection of mine from the Penitentiary Glen Reservation (MO#380998) is identified as this species. This collection was initially identified as *H. huronensis* based on its morphology (Hesler and Smith 1963). An ITS sequence was obtained for this collection. A BLAST search placed this collection among *H. flavescens* sequences. It is likely that *H. huronensis* is merely a white form of *H. flavescens*, but this issue is in need of further study.

Hygrocybe miniata (Fries) P. Kummer {C}

Hygrocybe minutula (Peck) Murrill {C}

Hygrocybe parvula (Peck) Murrill {!, C}

A collection of mine from Mohican State Park (MU 000296782) is identified as this species.

Hygrocybe punicea (Fries) P. Kummer

Hygrocybe turunda (Fries) P. Karsten {C}

Hygrophoropsis aurantiaca (Wulfen) Maire {C}

Hygrophorus camarophyllus (Albertini & Schweinitz) Dumée, Grandjean & Maire

Hygrophorus chrysodon (Batsch) Fries {C}

Hygrophorus cossus (Sowerby) Fries

Hygrophorus discoxanthus (Fries) Rea

Hygrophorus eburneus (Bulliard) Fries

Hygrophorus erubescens (Fries) Fries

Hygrophorus fuligineus Frost

Hygrophorus gliocyclus Fries

Hygrophorus laurae Morgan {O}

Hygrophorus occidentalis A.H. Smith & Hesler {!, C}

A collection of mine from Sharon Woods Metro Park (MU 000296897) is identified as this species.

Hygrophorus pallidus Peck

Hygrophorus ravenelii Berkeley & M.A. Curtis

Similar to *Hygrocybe acutoconica* var. *cuspidata* (Hesler and Smith 1963). This species likely belongs in *Hygrocybe* rather than *Hygrophorus*.

Hygrophorus roseobrunneus Murrill

Hygrophorus russula (Schaeffer) Kauffman {C}

Hygrophorus serotinus Peck

Apparently not a true *Hygrophorus* but the proper generic placement of this species is unclear (Hesler and Smith 1963).

Hygrophorus sordidus Peck {C}

Hygrophorus stowellii Hesler & A.H. Smith

Hygrophorus subsalmonius A.H. Smith & Hesler

Hygrophorus subsordidus Murrill

Hygrophorus tennesseensis A.H. Smith & Hesler {!, C}

A collection of mine from Mohican State Park (MU 000297035) is identified as this species.

Hymenochaete cinnamomea (Persoon) Bresadola

Hymenochaete curtisii (Berkeley) Morgan

Hymenochaete fuliginosa (Persoon) Léveillé

Hymenochaete pinnatifida Burt

Hymenochaete rubiginosa (Dickson) Léveillé {C}

Hymenoscyphus calyculus (Fries) W. Phillips

Hymenoscyphus fraternus (Peck) Dennis

Hymenoscyphus fructigenus (Bulliard) Gray

Hymenoscyphus lutescens (Hedwig) W. Phillips

Hymenoscyphus phyllophilus (Desmazières) Kuntze

Hymenoscyphus renisporus (Ellis) W. Phillips

Hymenoscyphus scutula (Persoon) W. Phillips

Hymenoscyphus serotinus (Persoon) W. Phillips

Hymenula cerealis Ellis & Everhart

Hymenula punctiformis Corda

Hyperphyscia adglutinata (Flörke) H. Mayrhofer & Poelt {L}

Hyperphyscia confusa Esslinger, C.A. Morse & S. Leavitt {L}

Hyperphyscia endochrysea (Nylander) E. Filippini, G. Quiroga, J. M. Rodriguez, C. Estrabou

{L}

Hyperphyscia syncolla (Tuckerman ex Nylander) Kalb {L}

Hyphoderma heterocystidiatum (Burt) Donk

Hyphoderma heterocystidium (Burt) Donk

Hyphoderma leoninum Burdsall & Nakasone

Hyphoderma litschaueri (Burt) J. Eriksson & Å.... Strid

Hyphoderma mutatum (Peck) Donk

Hyphoderma roseocremeum (Bresadola) Donk

Hyphoderma rubropallens (Schweinitz) Ginns

Hyphoderma setigerum (Fries) Donk

Hyphodermella corrugata (Fries) J. Eriksson & Ryvarden

Hyphodermella rosae (Bresadola) Nakasone {!, C, S}

A collection of mine from Columbus (MO#363125) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search supported the placement of this collection in *H. rosae*.

Hyphodontia alutaria (Burt) J. Eriksson

Hyphodontia arguta (Fries) J. Eriksson {C}

Hyphodontia fimbriiformis (Berkeley & M.A. Curtis) Ginns & M.N.L. Lefebvre

Hypholoma capnoides (Fries) P. Kummer

Hypholoma dispersum Quélet

Hypholoma elongatum (Persoon) Ricken {C}

Hypholoma ericaeum (Persoon) Kühner

Hypholoma lateritium (Schaeffer) P. Kummer

Hypholoma peckianum Kauffman

Hypholoma radicosum J.E. Lange

Hypholoma subviride (Berkeley & M.A. Curtis) Dennis {!, C}

Two collections of mine (MO#240258 and MO#261225) are identified as this species.

Hypholoma tuberosum Redhead & Kroeger {!, C}

A collection of mine from Columbus (MU 000297134) is identified as this species.

Hypocenomyce scalaris (Acharius ex Liljeblad) M. Choisy {L}

Hypochnicium albostramineum (Bresadola) Hallenberg {!, C}

A collection of mine from Carmack Woods in Columbus (MO#403281) is identified as this species.

Hypochnicium bombycinum (Sommerfelt) J. Eriksson

Hypochnicium lundellii (Bourdotted) J. Eriksson

Hypochnicium punctulatum (Cooke) J. Eriksson

Hypocopra fimetii (Persoon) Fries

Hypocopra pachyalax J.C. Krug & Cain {O}

An A. P. Morgan collection (ISC-F-0084424) identified as in MyCoPortal as *H. equinum* represents this species instead (Krug and Cain 1974).

Hypocrea lenta (Tode) Berkeley

If this is truly a *Hypocrea* species, then it requires a new combination in *Trichoderma* (Rossman *et al.* 2013).

Hypoderma commune (Fries) Duby

Hypoderma rubi (Persoon) DeCandolle

Hypogymnia physodes (Linnaeus) Nylander {L}

Hypomontagnella monticulosa (Montagne) Sir, L. Wendt & C. Lambert

Hypomyces armeniacus Tulasne & C. Tulasne {C}

Hypomyces aurantius (Persoon) Tulasne

Hypomyces boletiphagus Rogerson & Samuels

Hypomyces cervinus Tulasne & C. Tulasne {C}

Hypomyces chlorinus Tulasne & C. Tulasne {C, S}

Hypomyces chrysospermus Tulasne & C. Tulasne

Hypomyces hyalinus (Schweinitz) Tulasne & C. Tulasne {C}

Hypomyces lactifluorum (Schweinitz) Tulasne & C. Tulasne {C}

Hypomyces lateritius (Fries) Tulasne & C. Tulasne

Hypomyces luteovirens (Fries) Tulasne & C. Tulasne

Hypomyces macrosporus Seaver

Hypomyces microspermus Rogerson & Samuels

Hypomyces odoratus G.R.W. Arnold

Ohio collections in MyCoPortal are reported as the anamorph synonym *Cladobotryum mycophilum* (Rogerson and Samuels 1994).

Hypomyces papulasporae Rogerson & Samuels {!, C}

A collection of mine from Blacklick Woods Metro Park (MU 000296849) is identified as this species.

Hypomyces polyporinus Peck

Hypomyces porphyreus Rogerson & Mazzer

Hypomyces rosellus (Albertini & Schweinitz) Tulasne & C. Tulasne

Hypomyces semitranslucens G.R.W. Arnold

Hypomyces stephanomatis Rogerson & Samuels

Hypomyces transformans Peck

Hypomyces tremellicola (Ellis & Everhart) Rogerson {O,C}

Hyponectria buxi (DeCandolle) Saccardo

Hypotrachyna afrorevoluta (Krog & Swinscow) Krog & Swinscow {L}

Hypotrachyna horrescens (Taylor) Krog & Swinscow {L}

Hypotrachyna livida (Taylor) Hale {L}

Hypotrachyna minarum (Vainio) Krog & Swinscow {L}

Hypotrachyna revoluta (Flörke) Hale {L}

Hypotrachyna showmanii Hale {O, L}

Hypoxyton croceum J.H. Miller

Hypoxyton crocopeplum Berkeley & M.A. Curtis {C}

Hypoxyton ferrugineum G.H. Otth

Hypoxyton fragiforme (Persoon) J. Kickx f.

Hypoxyton fuscum (Persoon) Fries

Hypoxyton howeanum Peck

Hypoxyton investiens (Schweinitz) M.A. Curtis

Hypoxyton jecorinum Berkeley & Ravenel

Hypoxyton laurus J.H. Miller {O}

Hypoxyton morganii Ellis & Everhart {O}

Hypoxyton papillatum Ellis & Everhart {O}

Hypoxyton perforatum (Schweinitz) Fries {C}

Hypoxyton rubiginosum (Persoon) Fries

Hypoxyton vogesiacum (Currey) Saccardo

Hypsilophora callorioides Kalchbrenner & Cooke

Hypsizygus tessulatus (Bulliard) Singer

Hypsizygus ulmarius (Bulliard) Redhead {C}

Hysterium angustatum Persoon {C}

Hysterium hyalinum Cooke & Peck

Hysterium pulicare (Lightfoot) Persoon

Hysterium versisporum W.R. Gerard

Hysterobrevium mori (Schweinitz) E.W.A. Boehm & C.L. Schoch {C}

Hysterobrevium smilacis (Schweinitz) E.W.A. Boehm & C.L. Schoch

Hysterographium flexuosum (Schweinitz) Saccardo

Hysteropatella clavispora (Peck) Höhnel

Hysteropatella prostii (Duby) Rehm

Hysteropatella pygmaea (Ellis & Everhart) Rehm {O}

Icmadophila ericetorum (Linnaeus) Zahlbruckner {L}

Illosporium malifoliorum J. Sheldon

Imleria badia (Fries) Vizzini

Imleria pallida (Frost) A. Farid, A.R. Franck, & J. Bolin {C}

Imshaugia aleurites (Acharius) S.L.F. Meyer {L}

Imshaugia placorodia (Acharius) S.L.F. Meyer {L}

Incrucipulum capitatum (Peck) Baral

Incrucipulum ciliare (Schrader) Baral

Infundibulicybe gibba (Persoon) Harmaja

Infundibulicybe squamulosa (Persoon) Harmaja

Infundibulicybe trulliformis (Fries) Gminder

Inocutis dryophila (Berkeley) Fiasson & Niemelä {O}

Inocybe assimilata (Britzelmayr) Saccardo

Inocybe asterospora Quélet

Inocybe auricoma (Batsch) J.E. Lange

Inocybe caesariata (Fries) P. Karsten

Inocybe calospora Quélet

Inocybe cicatricata Ellis & Everhart

Inocybe cincinnata (Fries) Quélet

Inocybe curvipes P. Karsten

Inocybe decemgibbosa (Kühner) Vauras

Inocybe decipiens Bresadola

Inocybe dulcamara (Persoon) P. Kummer

Inocybe euthelos (Berkeley & Broome) Quélet

Inocybe flocculosa Saccardo {C, S}

Inocybe geophylla (Sowerby) P. Kummer

Inocybe grammata Quélet

Inocybe incarnata Bresadola

Inocybe inconcinna P. Karsten

Inocybe lacera (Fries) P. Kummer

Inocybe leiocephala D.E. Stuntz

Inocybe lilacina (Peck) Kauffman {!, C}

Three collections of mine (MO#358041, MO#358989 and MO#358990) are identified as this species. This is a common species in the late Summer and early Fall and is very distinctive as a bright purple *Inocybe* species.

Inocybe margaritispora (Berkeley) Saccardo

Inocybe mixtilis (Britzelmayr) Saccardo

Inocybe oblectabilis (Britzelmayr) Saccardo

Inocybe pallidipes Ellis & Everhart

Inocybe praetervisa Quélet

Inocybe proximella P. Karsten

Inocybe repanda (Bulliard) Quélet

Inocybe sindonia (Fries) P. Karsten

Inocybe subdestricta Kauffman

Inocybe subochracea (Peck) Earle

Inocybe subrimosa P. Karsten

Inocybe tahquamenonensis D.E. Stuntz

Inocybe tenebrosa Quélet

Inocybe trinii (Weinmann) Quélet

Inocybe umboninota (Peck) Peck

Inocybe umbratica Quélet

Inocybe ursinella M. Lange

Inocybe ventricosa G.F. Atkinson

Inocybe violacea Massee

Inoderma byssaceum (Weigel) Gray {L}

Inonotopsis subiculosa (Peck) Parmasto

Inonotus andersonii (Ellis & Everhart) Cerný

Inonotus cuticularis (Bulliard) P. Karsten {C}

Inonotus glomeratus (Peck) Murrill

Inonotus hispidus (Bulliard) P. Karsten

Inonotus munzii (Lloyd) Gilbertson {!, C}

A collection of mine from Highbanks Metro Park (MO#406578) is identified as this species based on its morphology (Gilbertson and Ryvarden 1986). This collection is significantly North of the previously reported distribution of this species and this identification of this collection should be treated as tentative pending ITS sequence data.

Inonotus obliquus (Acharius ex Persoon) Pilát

Inosperma bongardii (Weinmann) Matheny & Esteve-Raventós

Inosperma calamistratum (Fries) Matheny & Esteve-Raventós

Inosperma mutatum (Peck) Matheny & Esteve-Raventós

Inosperma neobrunnescens (Grund & D.E. Stuntz) Matheny & Esteve-Raventós

Inosperma rhodiolum (Bresadola) Matheny & Esteve-Raventós

Intextomyces contiguus (P. Karsten) Eriksson & Ryvarden

Intralichen lichenum (Diederich) D. Hawksworth & M.S. Cole

Iodophanus carneus (Persoon) Korf

Ionaspis alba Lutzoni {L}

Ionaspis lacustris (Withering) Lutzoni {L}

Ionomidotis fulvotingens (Berkeley & M.A. Curtis) E.K. Cash {!, C}

A collection of mine from Glen Echo Park in Columbus (TU134160) is identified as this species.

Ionomidotis irregularis (Schweinitz) E.J. Durand {C}

Ionopezia gerardii (Cooke) Van Vooren

Ionopezia ionella (Quél.) Van Vooren {H}

A C. G. Lloyd collection (F8345) at S is identified as this species.

Irpea lacteus (Fries) Fries

Ischnoderma benzoinum (Wahlenberg) P. Karsten

Jackrogersella cohaerens (Persoon) L. Wendt, Kuhnert & M. Stadler {C}

Jackrogersella multiformis (Fries) L. Wendt, Kuhnert & M. Stadler

Jafnea fusicarpa (W.R. Gerard) Korf

Jafnea semitosta (Berkeley & M.A. Curtis) Korf {C}

Japewiella dollypartoniana J.L. Allen & Lendemer {L}

Jobellisia luteola (Ellis & Everhart) M.E. Barr {O}

Juglanconis oblonga (Berkeley) Voglmayr & Jaklitsch

Julella fallaciosa (Stizenberger ex Arnold) R.C. Harris {L}

Julella lactea (A. Massalongo) M.E. Barr {L}

Jumillera hypophlaea (Berkeley & Ravenel) J.D. Rogers, Y.M. Ju & F. San Martín {H}

A W. A. Kellerman collection (F76736) at S is identified as this species.

Kabatina juniperi R. Schneider & Arx

Kauffmania larga (Kauffman) Örstadius & E. Larsson

Kirschsteiniothelia atra (Corda) D. Hawksw.

Kneiffiella abieticola (Bourdot & Galzin) Jülich & Stalpers

Kneiffiella alienata (S. Lundell) Jülich & Stalpers {!, C}

A collection of mine from Mercer Woods (MU 000297073) is identified as this species.

Kneiffiella alutacea (Fries) Jülich & Stalpers

Kneiffiella cineracea (Bourdot & Galzin) Jülich & Stalpers

Kneiffiella curvispora (J. Eriksson & Hjortstam) Jülich & Stalpers {!, C}

A collection of mine from the Spruce Run Education Center in Galena (MU 000297074)

is identified as this species.

Kretzschmaria deusta (Hoffmann) P.M.D. Martin

Kuehneola uredinis (Link) Arthur

Kuehneromyces lignicola (Peck) Redhead

Kuehneromyces marginellus (Peck) Redhead

As *Pholiota veris* (Tian and Matheny 2020).

Kuehneromyces mutabilis (Schaeffer) Singer & A.H. Smith

Kurtia argillacea (Bresadola) Karasiński {!, C}

Two collections of mine (MU 000297083 and MU 000297103) are identified as this species.

Laboulbenia fasciculata Peyritsch

Laboulbenia notiophili Cépède & F. Picard

Laboulbenia philonthi Thaxter

Laccaria amethystina Cooke {C}

Laccaria bicolor (Maire) P.D. Orton

Laccaria laccata (Scopoli) Cooke {C}

Laccaria ochropurpurea (Berkeley) Peck {C}

Laccaria ohiensis (Montagne) Singer {O}

Laccaria proxima (Boudier) Patouillard

Laccaria tortilis (Bolton) Cooke

Lachnella alboviolascens (Albertini & Schweinitz) Fries

Lachnella tiliae (Peck) Donk

Lachnella villosa (Persoon) Gillet

Lachnellula ellisiana (Rehm) Baral

Lachnellula pulverulenta (Libert) Sasagawa & Hosoya

Lachnum echinulatum (Rehm) Rehm

Lachnum impudicum Baral {!, C}

A collection of mine from Madison Township in Perry County (MO#364839) is identified as this species.

Lachnum luteoalbum (Schweinitz) Morgan

Lachnum nudipes (Fuckel) Nannfeldt

Lachnum pygmaeum (Fries) Bresadola

Lachnum rhytismatis (W. Phillips) Nannfeldt

Lachnum varians (Rehm) M.P. Sharma

Lachnum virgineum (Batsch) P. Karsten {C}

Lacrymaria echiniceps (G.F. Atkinson) Voto

Lacrymaria lacrymabunda (Bulliard) Patouillard

Lacrymaria rigidipes (Peck) Watling

Potentially synonymous with *L. lacrymabunda* (Wächter and Melzer 2020).

Lacrymaria rugocephala (G.F. Atkinson) Watling {C}

Lactarius affinis Peck

Lactarius areolatus Hesler & A.H. Smith {C}

Lactarius atroviridis Peck

Lactarius aurantiacus (Persoon) Gray

Lactarius camphoratus (Bulliard) Fries

Lactarius carbonicola A.H. Smith

Lactarius chrysorrheus Fries

Lactarius cinereus Peck

Lactarius croceus Burlingham {C}

Lactarius deceptivus Peck

Lactarius deliciosus (Linnaeus) Gray

Lactarius frustratus Hesler & A.H. Smith

Lactarius fuliginosus (Krapf) Fries

Lactarius gerardii var. *fagicola* (A.H. Smith & Hesler) Hesler & A.H. Smith {!, C}

A collection of mine from Academy Park in Gahanna (MO#243277) is identified as this taxon. This taxon does not within *L. gerardii* *sensu stricto* and requires a new species-level combination (Stubbe, Nuytinck and Verbeken 2010). It also belongs in *Lactifluus* rather than *Lactarius* but lacks a combination in that genus (De Crop *et al.* 2017).

Lactarius glyciosmus (Fries) Fries

Lactarius griseus Peck

Lactarius hepaticus Plowright

Lactarius hygrophoroides Berkeley & M.A. Curtis

Lactarius hysginus (Fries) Fries

Lactarius imperceptus Beardslee & Burlingham

Lactarius indigo (Schweinitz) Fries

Lactarius latus Coker

Lactarius lignyotus Fries

Lactarius maculatus Peck {!, C}

A collection of mine from Blacklick Woods Metro Park (MO#263741) is identified as this species.

Lactarius mutabilis Peck

Lactarius neotabidus A.H. Smith

Lactarius paludinellus Peck

Lactarius peckii Burlingham

Lactarius psammicola A.H. Smith {C}

Lactarius pubescens var. *betulae* (A.H. Smith) Hesler & A.H. Smith

Lactarius pyrogalus (Bulliard) Fries

Lactarius quietus var. *incanus* Hesler & A.H. Smith {!, C}

Two collections of mine (MO#402421 and MO#250090) are identified as this species.

Lactarius rimosellus Peck

Lactarius subdulcis (Persoon) Gray

Lactarius subplinthogalus Coker {!, C}

Three collections of mine (MU 000296805, MU 000296806 and MU 000296807) are identified as this species. This is one of the more common *Lactarius* species in our hardwood forests.

Lactarius subpurpureus Peck {C}

Lactarius subvelutinus Peck

Lactarius subvernalis var. *cokeri* (A.H. Smith & Hesler) Hesler & A.H. Smith {!, C}

Two collections of mine (MU 000296811 and MU 000296950) are identified as this taxon.

Lactarius sumstinei Peck

Lactarius tabidus Fries

Lactarius theiogalus (Bulliard) Gray {C}

Possibly synonymous with *L. tabidus* but there has been much confusion around the application of this name (Methven 2013).

Lactarius torminosus (Schaeffer) Persoon

Lactarius trivialis (Fries) Fries

Ohio records may represent a cryptic species that has been reported under this European name, but further research is needed (Bessette, Harris, and Bessette 2009).

Lactarius uvidus (Fries) Fries

Lactarius vinaceorufescens A.H. Smith {C}

Lactarius volemus var. *flavus* Hesler & A.H. Smith

This is a *Lactifluus* species but does not yet have a combination in that genus or a species-level combination (Van de Putte *et al.* 2016).

Lactarius zonarius (Bulliard) Fries

There has been much confusion surrounding the application of this name in North America, and it is possible that *L. zonarius sensu stricto* does not occur here. Many Ohio collections identified as *L. zonarius* are likely *L. psammicola* instead (Methven 2013).

Lactifluus corrugis (Peck) Kuntze

Lactifluus deceptivus (Peck) Kuntze {!, C}

A collection of mine from Mohican State Park (MU 000297050) is identified as this species.

Lactifluus gerardii (Peck) Kuntze

Lactifluus glaucescens (Crossland) Verbeken {!, C}

Three collections of mine (MU 000296866, MO#374384 and MO#374381) are identified as this species.

Lactifluus luteolus (Peck) Verbeken

Lactifluus piperatus (Linnaeus) Roussel {C}

There are several cryptic, currently undescribed species that have been collected under this name in North America. More sampling is needed to determine whether *L. piperatus sensu stricto* truly occurs in eastern North America (De Crop *et al.* 2014).

Lactifluus subvellereus (Peck) Nuytinck

Lactifluus vellereus (Fries) Kuntze

Lactifluus waltersii (Hesler & A.H. Smith) De Crop {O}

Laeticutis cristata (Schaeffer) Audet {C}

Laetiporus cincinnatus (Morgan) Burdsall, Banik & T.J. Volk {O, B, C}

A collection of mine from Shafer Park in Westerville (MU 000296959) is identified as this species. This species was described by A. P. Morgan from Ohio, but the holotype may be missing (Burdsall and Banik 2001). Some collections from Ohio identified as *L. sulphureus* may also represent this species instead (Burdsall and Banik 2001).

Laetiporus sulphureus (Bulliard) Murrill {C}

Laetisaria arvalis Burdsall

Laetisaria fuciformis (Berkeley) Burdsall {C}

Lamprospora nigrans (Morgan) Seaver {O}

Lamprospora polytrichina Rehm ex Seaver

Lamprospora tuberculata Seaver {!, C}

A collection of mine from Tar Hollow State Park (MO#373415) is identified as this species.

Lanmaoa borealis (A.H. Smith & Thiers) A.E. Bessette, M.E. Nuhn & R.E. Halling {!, C}

A collection of mine from Blacklick Woods Metro Park (MO#253419) is identified as this species. This collection is located in the herbarium of Michael Kuo.

Lanmaoa carminipes (A.H. Smith & Thiers) G. Wu, Halling & Zhu L. Yang

Lanmaoa pallidorosea (Both) Raspé & Vadhanarat {!, C}

This is a very common bolete species throughout Ohio. Six collections of mine are identified as this species: MO#422843, MO#250362, MO#264884, MO#265023, and MO#261846. All of these collections except for MO#422843 are in the herbarium of Michael Kuo. MO#261846 is pictured in Fig. 2F. It is likely that some Ohio collections identified as one of the other larger red-capped blue-staining boletes such as *Baorangia bicolor* or *Boletus sensibilis* represent this species instead.

Lanmaoa pseudosensibilis (A.H. Smith & Thiers) G. Wu, R.E. Halling & Zhu L. Yang {C}

Lanzia longipes (Cooke & Peck) Dumont & Korf

Lasallia papulosa (Acharius) Llano {L}

Lasallia pensylvanica (Hoffm.) Llano {L}

Lasallia pustulata (Linnaeus) Mérat {L}

Lasiobelonium corticale (Persoon) Raitvii

Lasiobolus intermedius J.L. Bezerra & Kimbrough {!, C}

A collection of mine from Whetstone Park in Columbus (MO#365124) is identified as this species.

Lasiobolus papillatus (Persoon) Saccardo

Lasionectria vulpina (Cooke) Rossman & Samuels

Lasiosphaeria calva (Tode) Saccardo

Lasiosphaeria ovina (Persoon) Cesati & De Notaris {C}

Lasiosphaeria setosa (Schweinitz) Ellis

Lasiosphaeria sorbina (Nylander) P. Karsten

Lasiosphaeria subambigua (Cooke) Saccardo

Lasiosphaeris hirsuta (Fries) A.N. Miller & Huhndorf

Lasiosphaeris hispida (Tode) Clements

Lathagrium cristatum (Linnaeus) Otálora, P.M. Jørgensen & Wedin {L}

Lathagrium fuscovirens (Withering) Otálora, P.M. Jørgensen & Wedin {L}

Laxitextum bicolor (Persoon) Lentz

Leandria momordicae Rangel

Lecania brunonis (Tuckerman) Herre {L}

Lecania croatica (Zahlbrückner) Kotlov {L}

Lecania cyrtella (Acharius) Th. Fries {L}

Lecania erysibe (Acharius) Mudd {L}

Lecania naegelii (Hepp) Diederich & van den Boom {L}

Lecania turicensis (Hepp) Müller Arg. {L}

Lecanicillium fungicola (Preuss) Zare & W. Gams

Lecanora albella (Persoon) Acharius {L}

Lecanora allophana (Acharius) Nylander {L}

Lecanora appalachensis Lendemer & R.C. Harris {L}

Lecanora caesiorubella Acharius {L}

Lecanora caperatica O. Asher & J.C. Lendemer {L}

Lecanora cenisia Acharius {L}

Lecanora chlarotera Nylander {L}

Lecanora cinereofusca H. Magnusson {L}

Lecanora cinereofusca var. *appalachensis* Brodo {L}

Lecanora circumborealis Brodo & Vitikainen {L}

Lecanora expallens Acharius {L}

Lecanora frustulosa (Dickson) Acharius {L}

Lecanora glabrata (Acharius) Malme {L}

Lecanora hybocarpa (Tuckerman) Brodo {O, L}

Lecanora hypoptoides (Nylander) Nylander {L}

Lecanora imshaugii Brodo {L}

Lecanora intricata (Acharius) Acharius {L}

Lecanora layana Lendemer {L}

Lecanora miculata Acharius {L}

Lecanora minutella Nylander {L}

Lecanora nothocaesiella Lendemer & R.C. Harris {L}

Lecanora oreinoides (Körber) Hertel & Rambold {L}

Lecanora pallida (Schreber) Rabenhorst {L}

Lecanora polytropa (Ehrhart) Rabenhorst {L}

Lecanora protervula Stirton {L}

Lecanora pseudistera Nylander {L}

Lecanora pulicaris (Persoon) Acharius {L}

Lecanora rugosella Zahlbruckner {L}

Lecanora rupicola (Linnaeus) Zahlbruckner {L}

Lecanora saligna (Schrader) Zahlbruckner {L}

Lecanora saxigena Lendemer & R.C. Harris {L}

Lecanora strobilina Acharius {L}

Lecanora subimmergens Vainio {L}

Lecanora symmicta (Acharius) Acharius {L}

Lecanora thysanophora R.C. Harris {L}

Lecanora valesiaca (Müller Arg.) Stizenberger {L}

Lecanora varia (Hoffmann) Acharius {L}

Lecanosticta acicola (Thümen) Sydow

Leccinum albellum (Peck) Singer

Leccinum asterospermum (Vittadini) M. Kuo & B. Ortiz

Leccinum crocipodium (Letellier) Watling {!, C}

A collection of mine from Blendon Woods Metro Park (MO#264333) is identified as this species. This collection is in the herbarium of Michael Kuo.

Leccinum insigne A.H. Smith, Thiers & Watling

Leccinum longicurvipes (Snell & A.H. Smith) M. Kuo & B. Ortiz

Leccinum quercophilum (M. Kuo) M. Kuo {!, C}

A collection of mine from Delaware State Park (MO#261853) is identified as this species. This collection is in the herbarium of Michael Kuo.

Leccinum rugosiceps (Peck) Singer {C}

Leccinum scabrum (Bulliard) Gray

Leccinum snellii A.H. Smith, Thiers & Watling {!, C, S}

A collection of mine from the Chapin Forest Reservation (PUL F26626) is identified as this species. An LSU sequence obtained for this collection supports this identification.

Leccinum versipelle (Fries & Hök) Snell

Lecidea auriculata Th. Fries {L}

Lecidea chalybeiza Nylander {L}

Lecidea congesta Fink ex J. Hedrick {O, L}

Lecidea cyrtidia Tuckerman {L}

Lecidea enteroleuca Acharius {L}

Lecidea erythrophaea Flörke ex Sommerfelt {L}

Lecidea exigua Chaubard {L}

Lecidea fuliginosa Taylor {L}

Lecidea fuscoatra (Linnaeus) Acharius {L}

Lecidea humicola Fink {L}

Lecidea intropallida Fink {O, L}

Lecidea lactea Flörke ex Schaeerer {L}

Lecidea lapicida (Acharius) Acharius {L}

Lecidea myriocarpoides Nylander {L}

Lecidea planetica Tuckerman {L}

Lecidea plebeja Nylander {L}

Lecidea promiscens Nylander {L}

Lecidea subsimplex H. Magnusson {O, L}

Lecidella enteroleuca (Acharius) Körber {L}

Lecidella parasema (Acharius) Arnold {L}

Lecidella stigmata (Acharius) Hertel & Leuckert {L}

Leciographa triseptata (P. Karsten) Morgan

Legaliana badia (Persoon) Van Vooren

Leimonis erratica (Körber) R.C. Harris & Lendemer {L}

Leiorreuma sericeum (Eschweiler) Staiger {L}

Lempholemma minutulum (Bornet) Zahlbrückner {L}

Lentaria dendroidea (Fries) J.H. Petersen {H}

Two C. G. Lloyd collections (F373842 and F373851) at S are identified as this species.

Lentaria micheneri (Berkeley & M.A. Curtis) Corner

Lentinellus cochleatus (Persoon) P. Karsten

Lentinellus micheneri (Berkeley & M.A. Curtis) Pegler {C}

Lentinellus ursinus (Fries) Kühner

Lentinellus vulpinus (Sowerby) Kühner & Maire

Lentinula reticeps (Montagne) Murrill {O}

This is a *Rhodotus* species rather than a *Lentinula* (Bigelow 1986). This may represent an older available name for the species currently going under the name "*Rhodotus palmatus*" in Ohio.

Lentinus arcularius (Batsch) Zmitrovich {C}

Lentinus brumalis (Persoon) Zmitrovich {C}

Lentinus tigrinus (Bulliard) Fries {C}

Leotia atrovirens Persoon

There are several cryptic species that have been collected under the name *L. atrovirens*.

Ohio collections may represent multiple species (Zhong and Pfister 2004).

Leotia lubrica (Scopoli) Persoon

There are several cryptic species that have been collected under the name *L. lubrica*.

Ohio collections may represent multiple species (Zhong and Pfister 2004).

Leotia viscosa Fries

There are several cryptic species that have been collected under the name *L. viscosa*.

Ohio collections may represent multiple species (Zhong and Pfister 2004).

Lepiota alluviina (Peck) Morgan

Lepiota arenicola Peck

Lepiota augustana (Britzelmayr) Saccardo

Lepiota boudieri Bresadola

Lepiota bulbosa Velenovský

Lepiota castanea Quélet

Lepiota clypeolaria (Bulliard) P. Kummer

Lepiota cristata (Bolton) P. Kummer

Lepiota erminea (Fries) P. Kummer

Lepiota felina (Persoon) P. Karsten

Lepiota felinoides Peck

Lepiota fulvastra Berkeley & M.A. Curtis

Lepiota gemmata Morgan {O}

Lepiota glatfelteri Peck

Lepiota kuehneri Huijsman

Lepiota lilacea Bresadola {!, C}

A collection of mine from Columbus (MO#321129) is identified as this species.

Lepiota mesomorpha (Bulliard) P. Kummer

Lepiota metulispora (Berkeley & Broome) Saccardo

Lepiota miamensis (Morgan) Saccardo {O}

Lepiota neophana Morgan {O}

Lepiota noscitata (Britzelmayr) Saccardo

Lepiota parvannulata (Lasch) Gillet

Lepiota phaeosticta Morgan {O, B}

Described from Ohio, but type is not present in MyCoPortal (Vellinga 2010). What has happened with the type is unclear.

Lepiota rhodopepla Morgan {O}

Lepiota roseifolia Murrill

Lepiota rufescens Morgan {O}

Lepiota rufipes Morgan {O, B}

E. C. Vellinga has apparently studied the type collection, which is from Ohio, but does not state where it is accessioned (Vellinga 2010).

Lepiota rugulosa Peck

Lepiota spanista Morgan {O}

Lepiota subincarnata J.E. Lange {!, C}

A collection of mine from Gahanna Woods (MO#223277) is identified as this species.

Lepiota umbrosa Morgan {O}

Lepista martiorum (J. Favre) Bon {!, C, S}

A collection of mine from Browns Lake Bog (MU 000292836) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search on this sequence supported the identification of this collection as *L. martiorum*.

Lepista nuda (Bulliard) Cooke {C}

Lepista panaeolus (Fries) P. Karsten

Lepista personata (Fries) Cooke

Lepista saeva (Fries) P.D. Orton

Lepista sordida (Schumacher) Singer

Lepra amara (Acharius) Hafellner {L}

Lepra hypothamnolica (Dibben) Lendemer & R.C. Harris {L}

Lepra multipuncta (Turner) Hafellner {L}

Lepra multipunctoides (Dibben) Lendemer & R.C. Harris {L}

Lepra ophthalmiza (Nylander) Hafellner {L}

Lepra pustulata (Brodo & W.L. Culberson) Lendemer & R.C. Harris {L}

Lepra trachythallina (Erichsen) Lendemer & R.C. Harris {L}

Lepraria caesiella R.C. Harris {L}

Lepraria crassissima (Hue) Lettau {L}

Lepraria cryophila Lendemer {L}

Lepraria disjuncta Lendemer {L}

Lepraria elobata Tønsberg {L}

Lepraria finkii (de Lesdain) R.C. Harris {O, L}

Lepraria harrisiana Lendemer {L}

Lepraria hodkinsoniana Lendemer {L}

Lepraria incana (Linnaeus) Acharius {L}

Lepraria lobificans Nylander {L}

Lepraria membranacea (Dickson) Vainio {L}

Lepraria neglecta (Nylander) Erichsen {L}

Lepraria nivalis J.R. Laundon {L}

Lepraria normandinoides Lendemer & R.C. Harris {L}

Lepraria vouauxii (Hue) R.C. Harris {L}

Lepraria xanthonica Lendemer {L}

Leprocaulon adhaerens (K. Knudsen, Elix & Lendemer) Lendemer & Hodkinson {L}

Leproloma caesioalba (de Lesdain) M. Choisy {L}

Leproplaca cirrochroa (Acharius) Arup, Frödén & Søchting {L}

Leptothiorella berengeriana (Saccardo) Höhnel

Leptogium austroamericanum (Malme) C.W. Dodge {L}

Leptogium burnetiae C.W. Dodge {L}

Leptogium chloromelum (Swartz) Nylander {L}

Leptogium corticola (Taylor) Tuckerman {O, L}

Leptogium cyanescens (Acharius) Körber {L}

Leptogium hirsutum Sierk {L}

Leptogium marginellum (Swartz) Gray {L}

Leptogium milligranum Sierk {L}

Leptogium minutissimum (Flörke) Fries {L}

Leptogium saturninum (Dickson) Nylander {L}

Leptoglossum galeatum W.B. Cooke

Leptonia whiteae (Murrill) Murrill

This species likely belongs in *Entoloma* but lacks a combination in that genus.

Leptoraphis epidermidis (Acharius) Th. Fries {L}

Leptosphaeria culmifraga (Fries) Cesati & De Notaris

Leptosphaeria doliolum (Persoon) Cesati & De Notaris

Leptosphaeria drechsleri (Shoemaker) M.E. Barr

Leptosphaeria ogilviensis (Berkeley & Broome) Cesati & De Notaris

Leptosphaeria orthogramma (Berkeley & M.A. Curtis) Saccardo

Leptosphaerulina trifolii (Rostrup) Petrak

Leptospora rubella (Persoon) Rabenhorst

Leptosporomyces galzinii (Bourdot) Jülich

Leptosporomyces raunkiaeri (M.P. Christiansen) Jülich

Leptostromella filicina (Berkeley & M.A. Curtis) Saccardo

Leptostromella septorioides Saccardo & Roumeguère

Leptothyrium caryae Cole

Leptothyrium kellermanii Bubák {O}

Leptothyrium petiolorum (Cooke & Ellis) Saccardo

Leptotrichila dehnii (Rabenhorst) Jørstad

Leptotrichila medicaginis (Fuckel) Schüepp

Leptoxiphium fumago (Woronichin) Crous

Leratiomyces ceres (Cooke & Massee) Spooner & Bridge {!, C}

A collection by Tommy Springer from Fairfield County (MU 000296894) was examined by the author and identified as this species. This collection is pictured in Fig. 2E. This is a species that may originally be native to Australia and has been introduced to Europe and North America (Halama and Górká 2019). The recency of the first report of this species from Ohio may reflect its recent introduction to the state.

Leratiomyces squamosus (Persoon) Bridge & Spooner

Leratiomyces squamosus var. *thraustus* (Kalchbrenner) Bridge & Spooner {C}

Letharia columbiana (Nuttall) J.W. Thomson {L}

Letrouitia vulpina (Tuckerman) Hafellner & Bellemère {L}

Leucoagaricus americanus (Peck) Vellinga

Leucoagaricus coerulescens (Peck) J.F. Liang, Zhu L. Yang & J. Xu {O}

Leucoagaricus leucothites (Vittadini) Wasser {C}

Leucoagaricus meleagris (Sowerby) Singer

Leucoagaricus menieri (Saccardo) Singer

Leucoagaricus rubrotinctus (Peck) Singer {C}

Leucocoprinus birnbaumii (Corda) Singer {C}

Leucocoprinus brunnescens (Peck) Locquin

Leucocoprinus cepistipes (Sowerby) Patouillard

Leucocoprinus cretaceus (Bulliard) Locquin

Leucocoprinus flavescens (Morgan) H.V. Smith {O}

Leucocoprinus straminellus (Baglietto) Narducci & Caroti

Leucocortinarius bulbiger (Albertini & Schweinitz) Singer

Leucocybe candicans (Persoon) Vizzini, P. Alvarado, G. Moreno & Consiglio

Leucodermia leucomelos (Linnaeus) K. Kalb {L}

Leucogyrophana mollusca (Fries) Pouzar

Leucogyrophana montana (Burt) Domanski

Leucogyrophana olivascens (Berkeley & M.A. Curtis) Ginns & Weresub {C, S}

Leucopaxillus albissimus (Peck) Singer

Leucopaxillus laterarius (Peck) Singer & A.H. Smith

Leucopaxillus piceinus (Peck) Pomerleau

Leucopholiota decorosa (Peck) O.K. Miller, T.J. Volk & Bessette {C, S}

An ITS sequenced was obtained for a collection of mine (PUL F26249) from the Holden Arboretum. ITS sequence data is available in GenBank for three separate species level taxa identified as this species. It is not yet clear which of these represents the true *L. decorosa*, and whether PUL F2629 is truly *L. decorosa*.

Leveillula taurica (Léveillé) G. Arnaud

Lichenoconium erodens M.S. Christiansen & D. Hawksworth

Lichenoconium pyxidatae (Oudemans) Petrak & Sydow

Lichenomphalia umbellifera (Linnaeus) Redhead, Lutzoni, Moncalvo & Vilgalys {L}

Lichenopsis sphaeroboloidea Schweinitz

Lichinella nigritella (Lettau) P.P. Moreno & Egea {L}

Licrostroma subgiganteum (Berkeley) P.A. Lemke

Limacella albissima Murrill {O}

Limacella glischra (Morgan) Murrill {O}

Limacellopsis guttata (Persoon) Zhu L. Yang, Q. Cai & Y.Y. Cui

Lindtneria chordulata (D.P. Rogers) Hjortstam {O}

Lindtneria leucobryophila (Hennings) Jülich {!, C}

A collection of mine from Alexandria (MO#389414) is identified as this species.

Lindtneria trachyspora (Bourdotted & Galzin) Pilát

Lithothelium hyalosporum (Nylander) Aptroot {L}

Lithothelium septemseptatum (R.C. Harris) Aptroot {L}

Lobaria pulmonaria (Linnaeus) Hoffmann {L}

Loculohypoxylon grandineum (Berkeley & Ravenel) M.E. Barr

Longiseptatispora meliloti (Lasch ex Rabenhorst) L.W. Hou & Crous

Lopharia cinerascens (Schweinitz) G. Cunningham {C}

Lophiostoma auctum Saccardo

Lophiostoma caulinum var. *congregatum* (Harkness) Chesters & A.E. Bell {!, C}

A collection of mine from Cedar Point (MO#368357) is identified as this taxon.

Lophiostoma hysterinum (Wallroth) Saccardo

Lophiostoma macrostomum (Tode) Cesati & De Notaris

Lophiotrema curreyi Saccardo

Lophodermium arundinaceum (Schrader) Chevallier

Lophodermium pinastri (Schrader) Chevallier

Loweomyces fractipes (Berkeley & M.A. Curtis) Jülich {C}

Loxospora elatina (Acharius) A. Massalongo {L}

Loxospora ochrophaea (Tuckerman) R.C. Harris {L}

Lycoperdon americanum Demoulin

Lycoperdon atropurpureum Vittadini

Lycoperdon caudatum J. Schröter

Lycoperdon cokeri Demoulin

Lycoperdon compressum Lloyd

Lycoperdon cruciatum Rostkovius

Lycoperdon curtisii Berkeley {C}

Lycoperdon decipiens Durieu & Montagne

Lycoperdon dermoxanthum Vittadini

Lycoperdon echinatum Persoon

Lycoperdon ericaeum Bonorden

Lycoperdon ericaeum var. *subareolatum* (Kreisel) Demoulin

Lycoperdon eximum Morgan

Lycoperdon floccosum Lloyd

Lycoperdon fuligineum Berkeley & M.A. Curtis

Lycoperdon glabellum Peck

Possibly synonymous with *L. molle* (Demoulin 1979).

Lycoperdon marginatum Vittadini {C}

Lycoperdon molle Persoon

Lycoperdon peckii Morgan

Lycoperdon perlatum Persoon

Lycoperdon polymorphum Scopoli

Lycoperdon pratense Persoon

Lycoperdon pulcherrimum Berkeley & M.A. Curtis

Lycoperdon pusillum Hedwig

Lycoperdon rimulatum Peck

Lycoperdon subcretaceum (Zeller) Jeppson & E. Larsson

Lycoperdon subincarnatum Peck

Lycoperdon umbrinum Persoon

Lycoperdon utriforme Bulliard

Lycoperdon wrightii Berkeley & M.A. Curtis

Lyoathelia laxa (Burt) Hjortstam & Ryvarden

Lyomyces crustosus (Persoon) P. Karsten

Lyomyces erastii (Saarenoksa & Kotiranta) Hjortstam & Ryvarden {!, C}

Two collections of mine (MU 000292842 and MO#398761) are identified as this species.

Some Ohio collections identified as *L. sambuci* may also represent this species (Kotiranta and Saarenoksa 2000).

Lyomyces juniperi (Bourdot & Galzin) Riebesehl & E. Langer {!, C}

A collection of mine from Columbus (MU 000297084) is identified as this species.

Lyomyces sambuci (Persoon) P. Karsten {C}

Some collections identified as this species may represent *L. erastii* instead (Kotiranta and Saarenoksa 2000).

Lyophyllum decastes (Fries) Singer {C, S}

Lyophyllum fumescens (Peck) Clémençon

Lyophyllum fumosum (Persoon) P.D. Orton

Lyophyllum loricatum (Fries) Kühner ex Kalamees

Lyophyllum multiforme (Peck) H.E. Bigelow

Lyophyllum semitale (Fries) Kühner

Lysurus cruciatus (Leprieur & Montagne) Hennings

Macalpinomyces neglectus (Niessl) Vánky

Macrocytidia cucumis (Persoon) Josserand {C}

Macrodiplodiopsis desmazieri (Montagne) Petrak

Macrolepiota permixta (Barla) Pacioni

Macrophoma numerosa Peck {O}

Macrophomina phaseolina (Tassi) Goidànic

Macrotyphula juncea (Albertini & Schweinitz) Berthier {C}

Magnaporthe grisea (T.T. Hebert) M.E. Barr

Maireina ochracea (Hoffmann) L. Zíbarová

Mallochybe unicolor (Peck) Matheny & Esteve-Raventós {C}

Mamianiella coryli (Batsch) Höhnel

Marasmiellus biformis (Peck) J.S. Oliveira

Marasmiellus candidus (Fries) Singer {C}

Marasmiellus confluens (Persoon) J.S. Oliveira

Marasmiellus dichrous (Berkeley & M.A. Curtis) J.S. Oliveira {C}

Marasmiellus filopes (Peck) Redhead

Marasmiellus luxurians (Peck) J.S. Oliveira {C}

Marasmiellus peronatus (Bolton) J.S. Oliveira

Marasmiellus praeacutus (Ellis) Halling {C}

Marasmiellus ramealis (Bulliard) Singer

Marasmiellus subnudus (Ellis ex Peck) J.S. Oliveira {C}

Marasmiellus vaillantii (Persoon) Singer {C}

Previous Ohio collections in MyCoPortal have been identified as the synonym

Marasmius ramulinus (Desjardin 1989). A collection of mine from Browns Lake Bog (MO#400842) is also identified as this species.

Marasmius aciculiformis Berkeley & M.A. Curtis

Marasmius badiceps Peck

Desjardin (1989) gave this species a combination in *Collybia*. This is likely not a species of *Collybia sensu stricto* and it may belong in *Gymnopus* or *Marasmiellus* instead.

Marasmius bellipes Morgan {O,C, S, *}

An ITS sequence was obtained from a collection of mine from Browns Lake Bog (MO#396131). This collection is pictured in Fig. 1E. A BLAST search supported placement in *Marasmius* but other sequences identified as *M. bellipes* were lacking in GenBank.

Marasmius caespitosus Peck

Marasmius capillaris Morgan {O,C}

Marasmius cohaerens (Persoon) Cooke & Quélet

Marasmius cystidiosus (A.H. Smith & Hesler) Gilliam

Marasmius delectans Morgan {O}

Marasmius epifagus Gilliam

Some authors including Singer consider this species to belong in *Gloiocephala* rather than *Marasmius* (Desjardin 1989).

Marasmius epiphyllus (Persoon) Fries

Marasmius fagineus Morgan {O}

Marasmius felix Morgan {O,C}

Marasmius floridanus Murrill {C}

Several collections of this species from Ohio by W.G. Stover, H. C. Beardslee and A. P. Morgan representing *M. floridanus* were identified only as "Marasmius species" or misidentified as *M. cohaerans* or *M. glabellus* (Desjardin 1991). These collections may be present in MyCoPortal under the aforementioned names. Two collections of mine (MO#302932 and MO#302833) are also identified as this species.

Marasmius glabellus Peck

Marasmius graminum (Libert) Berkeley {C}

Marasmius haematocephalus (Montagne) Fries

Marasmius lachnophyllus (Berkeley) Morgan

Marasmius minutissimus Peck

Marasmius nigrodiscus (Peck) Halling {!, C}

A collection of mine from Glen Echo Park in Columbus (MO#358045) is identified as this species.

Marasmius olneii Berkeley & M.A. Curtis

As *M. insipidus* (Desjardin 1989).

Marasmius oreades (Bolton) Fries {C}

Marasmius plancus (Fries) Fries

Marasmius plicatulus Peck

Marasmius pruinatus Berkeley & M.A. Curtis

Marasmius pulcherripes Peck {C}

Marasmius rotula (Scopoli) Fries

Marasmius siccus (Schweinitz) Fries {C}

Marasmius spissus Gilliam

Marasmius strictipes (Peck) Singer {C}

Marasmius sullivantii Montagne {O,C}

Marasmius wynneae Berkeley & Broome

Marchandiomyces corallinus (Roberge) Diederich & D. Hawksworth

Maronea constans (Nylander) Hepp {L}

Maronea polyphaea H. Magnusson {L}

Marssonia toxicodendri (Ellis & G. Martin) Saccardo

Marssonina clematidicola U. Braun

Marssonina ochroleuca (Berkeley & M.A. Curtis) Lentz

Marssonina toxicodendri (Ellis & G. Martin) Magnus

Marssonina violae (Passerini) Magnus

Marthamyces phacidoides (Fries) Minter

Massaria conspurcata Saccardo

Massaria inquinans (Tode) De Notaris

Massaria platani Cesati

Massaria popula (Fries) Tul.

Massaria vomitoria Berkeley & M.A. Curtis

Massarina taphrina (Fries) O.E. Eriksson

Massariovalsa sudans (Berkeley & M.A. Curtis) Saccardo

Massospora cicadina Peck

Mattirolia ohiensis (Ellis & Everhart) Checa, M.N. Blanco & G. Moreno {O}

Megacollybia rodmanii R.H. Petersen, K.W. Hughes & Lickey {!, C}

Two collections of mine (MU 000296963 and MU 000297027) are identified as this species. Ohio collections identified as the strictly European species *M. platyphylla* likely represent this species as well (Hughes et al. 2007).

Megalospora porphyritis (Tuckerman) R.C. Harris {L}

Melampsora abietis-canadensis C.A. Ludwig

Melampsora abietis-caprearum Tubeuf

Melampsora bigelowii Thümen

Melampsora caprearum Thümen

Melampsora epitea Thümen

Melampsora laricis-populina Klebahn

Melampsora medusae Thümen

Melampsora populnea Castagne

Melampsora salicina Desmazières

Melanconiella ellisii (Rehm) Voglmayr & Jaklitsch

Melanconis apocrypta Ellis

Melanconis stilbostoma (Fries) Tulasne & C. Tulasne

Melanconium crinigerum Ellis & Everhart {O}

Melanconium magnum (Greville) Berkeley

Melanconium pallidum Peck

Melanconium peritheciatum Schweinitz

Melanconium stenosporum Ellis & Everhart {O}

Melanconium stromaticum (Corda) Corda {!, C}

A collection of mine from Cedar Point (MO#367773) is identified as this taxon.

Melanconium tiliae Peck

Melanelixia fuliginosa (Fries ex Duby) O. Blanco, A. Crespo, Divakar, Esslinger, D.

Hawksworth & Lumbsch {L}

Melanelixia glabratula (Lamy) Sandler & Arup {L}

Melanelixia subaurifera (Nylander) O. Blanco, A. Crespo, Divakar, Esslinger, D. Hawksworth &

Lumbsch {L}

Melanochaeta aotearoae (S. Hughes) E. Müller, Harr & Sulmont

Melanohalea exasperata (De Notaris) O. Blanco, A. Crespo, Divakar, Esslinger, D. Hawksworth

& Lumbsch {L}

Melanohalea exasperatula (Nylander) O. Blanco, A. Crespo, Divakar, Esslinger, D. Hawksworth

& Lumbsch {L}

Melanohalea olivacea (Linnaeus) O. Blanco, A. Crespo, Divakar, Esslinger, D. Hawksworth &

Lumbsch {L}

Melanoleuca alboflavida (Peck) Murrill

Melanoleuca grammopodia (Bulliard) Fayod

Melanoleuca maculatescens (Peck) Murrill {O}

Likely not a true *Melanoleuca* species. This species is apparently similar to *Harmajaea harperi* (Murrull 1913). Its proper generic placement is unclear.

Melanoleuca melaleuca (Persoon) Murrill

Melanomma boreale Ellis & Everhart

Melanomma caryophagum (Schweinitz) Fairman

Melanomma nigricans Ellis & Everhart {O}

Melanomma pulvis-pyrius (Persoon) Fuckel

Melanophyllum haematospermum (Bulliard) Kreisel {C}

Melanoporia nigra (Berkeley) Murrill {O}

Melanopsamma pomiformis (Persoon) Saccardo

Melanopsamma segregata (Berk. & M.A. Curtis) Ellis & Everh.

Melanopsichium pennsylvanicum Hirschhorn

Melanotus defraudatus E. Horak, Desjardin & R.H. Petersen

This species requires a combination in *Deconica*, of which *Melanotus* is a synonym
(Kalichman, Kirk, and Matheny. 2020).

Melaspilella proximella (Nylander) Ertz & Diederich {L}

Mellitiosporium hysterinum (Fries) Gillet

Melogramma campylosporum Fries

Melogramma gyrosum (Schweinitz) Tulasne & C. Tulasne

Melogramma patens Morgan {O}

Melomastia mastoidea (Fries) J. Schröter

Membranomyces delectabilis (H.S. Jackson) Kotiranta & Saarenoksa {!, C}

A collection of mine from Walhalla Ravine in Columbus (MO#416147) is identified as this species.

Menegazzia subsimilis (H. Magnusson) R. Santesson {L}

Menegazzia terebrata (Hoffmann) A. Massalongo {L}

Menispora caesia Preuss

Menispora ciliata Corda

Menispora cobaltina Saccardo {!, C, S, *}

A collection of mine from the Columbus Academy in Gahanna (MO#376303) is identified as this species. An ITS sequence was obtained for this collection, which supports placement of this species in the genus *Castanediella*. This species morphology of this species is also consistent with species currently placed in *Castanediella* (Lin *et al.* 2019). Other sequences identified as this species were lacking in GenBank.

Menispora glauca Link ex Persoon

Menispora tortuosa Corda

Mensularia radiata (Sowerby) Lázaro Ibiza

Meripilus sumstinei (Murrill) M.J. Larsen & Lombard

Merismodes anomala (Persoon) Singer

Merismodes fasciculata (Schweinitz) Earle {!, C}

Four collections of mine (MU000297060, MO#332548, MO#314799 and MO#369209) are identified as this species. This is a common cyphelloid species throughout Ohio but has likely previously been overlooked due to its small size.

Merismodes mellea (Burt) Singer {C}

Meruliopsis taxicola (Persoon) Bondartsev {!, C}

A collection of mine from the Hocking State Forest Rock (MO#261260) is identified as this species.

Merulius tremellosus Schrader {C}

Metarhizium anisopliae (Metschnikoff) Sorokin

Metarhizium rileyi (Farlow) Kepler, S.A. Rehner & Humber

Metasphaeria junci Saccardo

Metulodontia nivea (P. Karsten) Parmasto

Micarea leprosula (Th. Fries) Coppins & A. Fletcher {L}

Micarea lignaria (Acharius) Hedlund {L}

Micarea melaena (Nylander) Hedlund {L}

Micarea peliocarpa (Anzi) Coppins {L}

Micarea prasina Fries {L}

Micarea soralifera B. Guzow-Krzemińska, P. Czarnota, A. Lubek & M. Kukwa {L}

Micareopsis irriguata R.C. Harris & Lendemer {L}

Microascus brevicaulis S.P. Abbott

Microcyclosporella mali J. Frank, Schroers & Crous {B, #}

Videira *et al.* (2017) cite a sequenced culture in the CBS culture collection. It is unclear whether this culture and the original collection are permanently vouchered, and if so, where.

Microdiplodia celtidigena (Ellis & Bartholomew) Tassi

Microdochium panattonianum (Berlese) B. Sutton, Galea & T.V. Price

Microglossum olivaceum (Persoon) Gillet

Microglossum rufum (Schweinitz) Underwood

Micromphale foetidum (Sowerby) Singer

Micropodia galbula (P. Karst.) Boud.

Microporellus dealbatus (Berkeley & M.A. Curtis) Murrill

Microporellus obovatus (Junghuhn) Ryvarden

Microsphaera grossulariae (Wallroth) Léveillé

Microstoma floccosum (Schweinitz) Raitviir {C}

Microstroma album (Desmazières) Saccardo

Microstroma leucosporum (Montagne) Niessl

Microthecium fimicola (E.C. Hansen) Y. Marín, A.M. Stchigel, J. Guarro & J.F. Cano

Mitrula lunulatospora Redhead

Mitrula paludosa Fries

Mniaecia jungermanniae (Nees ex Fries) Boudier

Mollisia cinerea (Batsch) P. Karsten

Mollisia ligni (Desmazières) P. Karsten

Mollisia lividofusca (Fries) Gillet

Mollisia polygoni (Lasch ex Rehm) Gillet

Monilinia corni (J.M. Reade) Honey

Monilinia fructicola (G. Winter) Honey

Monilinia fructigena (Aderhold & Ruhland) Honey

Monilinia johnsonii (Ellis & Everhart) Honey

Monilinia laxa (Aderhold & Ruhland) Honey

Monilinia padi (Woronin) Honey

Monilinia seaveri (Rehm) Honey

Monochaetia monochaeta (Desmazières) Allescher

Monodictys glauca (Cooke & Harkness) S. Hughes

Morchella angusticeps Peck {C}

Morchella diminutiva M. Kuo, Dewsbury, Moncalvo & S.L. Stephenson {!, C}

A collection of mine from Academy Park in Gahanna (MU 000296984) is identified as this species. Ohio collections identified as *M. deliciosa*, *M. esculenta* and other strictly European species may also represent this species instead (Kuo *et al.* 2012).

Morchella punctipes Peck {!, C}

A collection of mine from Kilbourne Run Sports Park in Columbus (MO#408504) is identified as this species. Ohio collections identified as the strictly European *M. semilibera* likely also represent this species (Kuo *et al.* 2012).

Morrisographium persicae (Schweinitz) Illman & G.P. White

Mucor mucedo Linnaeus

Mucronella calva (Albertini & Schweinitz) Fries {C}

Mucronella subalpina K.S. Thind & Khurana {!, C}

A collection of mine from Holden Arboretum (MO#392836) is identified as this species.

Muellerella lichenicola (Sommerfelt) D. Hawksworth

Muellerella ventosicola (Mudd) D. Hawksworth

Multiclavula mucida (Persoon) R.H. Petersen {L}

Multiclavula vernalis (Schweinitz) R.H. Petersen {L}

Mutinus caninus (Hudson) Fries

Mutinus elegans (Montagne) E. Fischer

Mutinus ravenelii (Berkeley & M.A. Curtis) E. Fischer

Muyocopron smilacis (De Notaris) Saccardo

Mycena abramsii (Murrill) Murrill

Mycena acicula (Schaeffer) P. Kummer {C}

Mycena alexandri Singer

Mycena algeriensis Maire

Mycena algeriensis sensu Smith may represent a different *Mycena* species than *Mycena algeriensis sensu stricto*, and it is likely that this would include some Ohio collections identified as this species (Maas Geesteranus 1992).

Mycena alphitophora (Berkeley) Saccardo

Mycena amicta (Fries) Quélet

Mycena atkinsoniana A.H. Smith {C}

Mycena capillaripes Peck

Mycena corticalis A.H. Smith

Mycena crocea Maas Geesteranus

Mycena elegantula Peck

Mycena epipterygia (Scopoli) Gray

Mycena epipterygia var. *viscosa* (Maire) Ricken

Mycena erubescens Höhnel

Mycena filipes (Bulliard) P. Kummer

Some Ohio collections identified as this species may represent *M. metata*, *M. vitilis* or another similar *Mycena* species instead (Maas Geesteranus)

Mycena galericulata (Scopoli) Gray

Mycena galopus (Persoon) P. Kummer

Mycena haematopus (Persoon) P. Kummer

Mycena hemisphaerica Peck

As *M. fuliginosa* (Maas Geesteranus 1992).

Mycena inclinata (Fries) Quélet {C}

Mycena leaiana (Berkeley) Saccardo {O,C}

Mycena lilacifolia (Peck) A.H. Smith {!, C, S}

A collection of mine (MO#296364) is identified as this species. This species belongs in *Chromosera* rather than *Mycena* and will be combined in that genus in an upcoming publication (D. Jean Lodge pers. comm.).

Mycena macrorhiza (Berkeley & Montagne) Murrill {O}

This may not represent a true *Mycena*. Only known from the type collection (Montagne 1856, Murrill 1917b, Stover 1912).

Mycena niveipes (Murrill) Murrill

Mycena pelianthina (Fries) Quélet {C}

Mycena picta (Fries) Harmaja {H}

An H. C. Beardslee collection (F297450) at S is identified as this species.

Mycena polygramma (Bulliard) Gray

Mycena pura (Persoon) P. Kummer

Mycena purpureofusca (Peck) Saccardo

Mycena rutilantiformis (Murrill) Murrill {C}

Mycena sanguinolenta (Albertini & Schweinitz) P. Kummer

Mycena semivestipes (Peck) A.H. Smith

Mycena stylobates (Persoon) P. Kummer

Mycena subaquosa A.H. Smith

Mycena subcaerulea (Peck) Saccardo {C}

Mycena tenuicula (Murrill) Murrill

As *M. rubrotincta* (Maas Geesteranus 1992).

Mycena vulgaris (Persoon) P. Kummer

Mycenastrum corium (Guersent) Desvaux

Mycetinis olidus (Gilliam) R.H. Petersen {!, C}

A collection of mine from Mohican State Park (MU 000297047) is identified as this species.

Mycetinis opacus (Berkeley & M.A. Curtis) A.W. Wilson & Desjardin {C}

Mycetinis scorodonius (Fries) A.W. Wilson & Desjardin

Mycoacia fuscoatra (Fries) Donk

Some Ohio collections identified as this species may represent *M. nothofagi* instead (Nakasone 1997).

Mycoacia livida (Persoon) Zmitrovich

Mycoacia nothofagi (G. Cunningham) Ryvarden {!, C}

A collection of mine from Holden Arboretum (PUL F26759) is identified as this species.

An ITS sequence was obtained for this collection and supports its identification as *M. nothofagi*. Some Ohio collections identified as *M. fuscoatra* may represent this species as well (Nakasone 1997).

Mycoacia uda (Fries) Donk {C}

Mycobilimbia berengeriana (A. Massalongo) Hafellner & V. Wirth {L}

Mycocalicium albonigrum (Nylander) Tibell {L}

Mycocalicium fuscipes (Tuckerman) Fink {L}

Mycocalicium subtile (Persoon) Szatala {L}

Mycocentrospora verrucosa Pollack & Ellett {O}

Mycoglaena meridionalis (Zahlbruckner) Szatala

Mycoglaena quercicola R.C. Harris

Mycogone calospora (P. Karsten) Höhnel {!, C}

A collection of mine from Hinckley Reservation (MO#378141) is identified as this species.

Mycogone cinerea Morgan {O}

Mycogone nigra (Morgan) C.N. Jensen {O}

May be a synonym of, or close to, *Nigrospora oryzae* (Mason 1927).

Mycogone rosea Link {C}

Mycoporum compositum (A. Massalongo) R.C. Harris {L}

Mycoporum eschweileri (Müller Arg.) R.C. Harris {L}

Mycoporum pyrenocarpum Nylander {L}

Mycorrhaphium adustulum (Banker) Ryvarden

Mycorrhaphium adustum (Schweinitz) Maas Geesteranus {C}

Mycorrhaphium pusillum (Brotero) Maas Geesteranus

Mycosphaerella asiminae (Ellis & Everhart) Tomilin {O}

Mycosphaerella asterinoides (Ellis & Everhart) Fairman

Mycosphaerella campanulae (Ellis & Kellerman) Naumov {O}

Mycosphaerella ciliata (Ellis & Everhart) House

Mycosphaerella colorata (Peck) Earle

Mycosphaerella columbi Rehm {O}

Mycosphaerella convexula (Schweinitz) F.V. Rand

Mycosphaerella cruenta Latham

Mycosphaerella fraxinicola (Schweinitz) House

Mycosphaerella gaultheriae (Cooke & Peck) House

Mycosphaerella liriodendri (Cooke) Woronichin

Mycosphaerella longissima (Fuckel) Lindau {O}

Mycosphaerella maculiformis (Persoon) J. Schröter

Mycosphaerella plantaginis (Sollmann) Vestergren

Mycosphaerella pyri (Auerswald) Boerema

Mycosphaerella recutita (Fries) Johanson {O}

Mycosphaerella ribis Saccardo

Mycosphaerella sassafras (Ellis & Everhart) E.K. Cash {O}

Myelochroa aurulenta (Tuckerman) Elix & Hale {L}

Myelochroa galbina (Acharius) Elix & Hale {L}

Myelochroa metarevoluta (Asahina) Elix & Hale {L}

Myelochroa obsessa (Acharius) Elix & Hale {L}

Myriococcum everhartii Saccardo & Ellis

Not a true *Myriococcum* species, but its correct generic placement is unclear (Koukol 2016).

Myriococcum praecox Fries

Myriogenospora atramentosa (Berkeley & M.A. Curtis) Diehl

Myriolecis carlottiana (Lewis & Śliwa) Śliwa, Zhao Xin & Lumbsch {L}

Myriolecis dispersa (Persoon) Śliwa, Zhao Xin & Lumbsch {L}

Myriolecis hagenii (Acharius) Śliwa, Zhao Xin & Lumbsch {L}

Myriolecis sambuci (Persoon) Clements {L}

Myriospora smaragdula (Wahlenberg) Nägeli ex Uloth {L}

Myriostoma coliforme (Dickson) Corda

Myrmaecium fulvopruinatum (Berkeley) Jaklitsch & Voglmayr {O}

Mytilinidion tortile (Schweinitz) Saccardo

Myxarium nucleatum Wallroth {C}

Myxarium podlachicum (Bresadola) Raitviir

Myxosporium luteum Ellis & Everhart

Nadvornikia sorediata R.C. Harris {L}

Naetrocymbae fraxini (A. Massalongo) R.C. Harris {L}

Naetrocymbae punctiformis (Persoon) R.C. Harris {L}

Naucoria nimbosa (Fries) Saccardo

Obscure species. May be similar to *Phaeocollybia cidaris* (Kauffman 1918).

Nectria cinnabrina (Tode) Fries

Nectria filicina Cooke & Harkness {B}

An A. P. Morgan collection from Ohio is mentioned by Seaver (1912) but it is unclear where this collection is accessioned and whether it still exists.

Nectria lactea Ellis & Morgan {O}

Nectria magnoliae M.L. Lohman & Hepting

Nectria massei Saccardo & D. Saccardo

Nectria pallidula Cooke

Nectria peziza (Tode) Fries

Nectria sulphurea (Ellis & Calkins) Saccardo

Nectria verrucosa (Schweinitz) Saccardo

Nectriella rhizogena (Berkeley) Theissen

Nectriopsis candidans (Plowright) Maire

Nectriopsis oropensoides (Rehm) Samuels

Nectriopsis rubefaciens (Ellis & Everhart) M.S. Cole & D. Hawksworth

Nemania albocincta (Ellis & Everhart) Pouzar {O}

Nemania caries (Schweinitz) Y.M. Ju & J.D. Rogers

Nemania confluens (Tode) Læssøe & Spooner

Nemania effusa (Nitschke) Pouzar

Nemania illita (Schweinitz) Pouzar

Nemania kellermanii (Rehm) Y.M. Ju & J.D. Rogers {O,C}

Nemania serpens (Persoon) Gray

Nemania serpens var. *colliculosa* (Schweinitz) Y.M. Ju & J.D. Rogers

Neoalbatrellus caeruleoporus (Peck) Audet

Neoantrodia serialis (Fries) Audet

Neocercosporidium smilacis (Thümen) U. Braun, C. Nakashima, Videira & Crous

Neocosmospora haematococca (Berkeley & Broome) Nalim, Samuels & Geiser

Neocosmospora ipomoeae (Halsted) L. Lombard & P.W. Crous

Neoerysiphe galeopsidis (DeCandolle) U. Braun

Neofusicoccum ribis (Slippers, P.W. Crous & M.J. Wingfield) P.W. Crous, Slippers & A.J.L. Phillips

Neohelicosporium griseum (Berkeley & M.A. Curtis) Y.Z. Lu & K.D. Hyde

Neohelicosporium morganii (Linder) Y.Z. Lu & K.D. Hyde {O}

Neolentinus lepideus (Fries) Redhead & Ginns

Neopseudocercosporella capsellae (Ellis & Everhart) S.I.R. Videira & P.W. Crous

Neottiella rutilans (Fries) Dennis

Neozygites fresenii (Nowakowski) Remaudière & S. Keller

Nephroma helveticum Acharius {L}

Nephroma laevigatum Acharius {L}

Nephroma resupinatum (Linnaeus) Acharius {L}

Nephromopsis americana (Sprengel) Divakar, Crespo & Lumbsch {L}

Nephromopsis aurescens (Tuckerman) Divakar, Crespo & Lumbsch {L}

Nephromopsis fendleri (Nylander) Divakar, Crespo & Lumbsch {L}

Nephromopsis orbata (Nylander) Divakar, Crespo & Lumbsch {L}

Neurospora sitophila Shear & B.O. Dodge

Nidularia deformis (Willdenow) Swartz {C}

Nidularia pulvinata (Schweinitz) Fries

Niesslia exilis (Albertini & Schweinitz) G. Winter

Nitschkia acanthostroma (Montagne) Nannfeldt

Nitschkia confertula (Schweinitz) Nannfeldt

Nitschkia cupularis (Persoon) P. Karsten

Niveoporofomes spraguei (Berkeley & M.A. Curtis) B.K. Cui, M.L. Han & Y.C. Dai {C}

Nodulisporium atroviride (Cooke & Ellis) S. Hughes

Nodulisporium gregarium (Berkeley & M.A. Curtis) J.A. Meyer

Normandina pulchella (Borrer) Nylander {L}

Nothophoma infossa (Ellis & Everhart) Qian Chen & L. Cai

Nummauxia succenturiata (Tode) Lar.N. Vassiljeva & S.L. Stephenson

Nummularia morganii J.H. Miller {O}

The genus *Nummularia* Tulasne & C. Tulasne is illegitimate due to being preoccupied.

Former species of *Nummularia* are placed in *Biscogniauxia*, *Camillea*, *Hypoxyton* and several smaller genera in the Xylariales (Læssøe, Rogers, and Whalley 1989). The proper generic placement of this species is unclear.

Nyssopsora echinata (Léveillé) Arthur

Ochrolechia androgyna (Hoffmann) Arnold {L}

Ochrolechia arborea (Kreyer) Almborn {L}

Ochrolechia pallescens (Linnaeus) A. Massalongo {L}

Ochrolechia parella (Linnaeus) A. Massalongo {L}

Ochrolechia pseudopallescens Brodo {L}

Ochrolechia subpallescens Verseghy {L}

Ochrolechia tartarea (Linnaeus) A. Massalongo {L}

Ochrolechia trochophora (Vainio) Oshio {L}

Ochrolechia yasudae Vainio {L}

Octospora convexula (Persoon) L.R. Batra

Octospora humosa (Fries) Dennis

Octospora leucoloma Hedwig

Odontia ferruginea Persoon

Odontia fibrosa (Berkeley & M.A. Curtis) Köljalg

Odonticium laxum (L.W. Miller) Ryvarden {!, C}

A collection of mine from the Denison Biological Reserve (MU 000297121) is identified as this species.

Oedocephalum glomerulosum (Bulliard) Saccardo

Oedohysterium insidens (Schweinitz) E.W.A. Boehm & C.L. Schoch

Ohleria modesta Fuckel

Olla millepunctata (Libert) Svrcek

Ombrophila janthina P. Karsten

Ombrophila purpurea (Fuckel) W. Phillips

Ombrophila translucens (W.L. White) Baral

Omphalina dawsonii Murrill {O}

Not a true *Omphalina* species. Similar to, and possibly synonymous with, *Clitocybe subbulbipes* (Bigelow 1982b).

Omphalina pyxidata (Bulliard) Quélet

Omphalotus illudens (Schweinitz) Bresinsky & Besl

Onnia leporina (Fries) H. Jahn

As *O. circinatus* (Zhou *et al.* 2016a). It is possible that some Ohio collections identified as this species may represent *O. subtriquetra* instead (Ji *et al.* 2017).

Onnia tomentosa (Fries) P. Karsten

It is possible that some Ohio collections identified as this species may represent *O. subtriquetra* instead (Ji *et al.* 2017).

Onygena equina (Willdenow) Persoon

Oospora candidula Saccardo

Oospora microcarpa Schulzer & Saccardo

Oospora nicotianae Pezzolato & Saccardo

Oospora perpusilla (Saccardo) Saccardo

Oospora tenerrima (Preuss) Saccardo & Voglino

Oospora virescens (Link) Wallroth

Oospora vitellina (Preuss) Saccardo & Voglino

Opegrapha anomea Nylander

Opegrapha corticola Coppins & P. James {L}

Opegrapha parasitica (A. Massalongo) H. Olivier

Opegrapha pulvinata Rehm {L}

Opegrapha rupestris Persoon {L}

Opegrapha vulgata (Acharius) Acharius {L}

Opegraphoidea staurothelicola Fink {O}

Ophiobolus acuminatus (Sowerby) Duby

Ophiobolus fulgidus (Cooke & Peck) Saccardo

Ophioceras ohiense Ellis & Everhart {O}

Ophiocordyceps clavulata (Schweinitz) Petch

Ophiocordyceps entomorrhiza (Dickson) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora

Ophiocordyceps gracilioides (Kobayasi) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora {!, C}

A collection by Neil Mezache from Highbanks Metro Park (MO#322095) was identified as this species of mine. This identification should be treated as tentative pending sequence data.

Ophiocordyceps insignis (Cooke & Ravenel) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora

Ophiocordyceps melolonthae (Tulasne & C. Tulasne) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora

Ophiocordyceps ravenelii (Berkeley & M.A. Curtis) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora {!, C} Three collections of mine from Academy Park in Gahanna (MO#303451, MO#302746 and MO#274139) are identified as this species. This species is occasional at this location, but it is a large and distinctive species and may be rare elsewhere in the state.

Ophiocordyceps stylophora (Berkeley & Broome) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora {!, C} Nine collections of mine (MU 000297106, MU 000297129, MO#374158, MO#373215, MO#325125, MO#308276, MO#286999, MO#283830, and MO#262714) are identified as this species. This is a very common species, and one of our most common entomopathogenic fungi, but may have escaped collection previously due to its small size and its dull brown color which makes it more difficult to distinguish it from the logs it fruits through.

Ophiocordyceps superficialis (Peck) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora {!, C} A collection of mine from Camp Asbury in Hiram (MO#294419) is identified as this species.

Ophiocordyceps variabilis (Petch) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora {!, C} Two collections of mine (MO#371180 and MO#302716) are identified as this species.

Ophiognomonia leptostyla (Fries) Sogonov

Ophiognomonia sassafras (Ellis & Everhart) M. Monod {O}

Ophiognomonia setacea (Persoon) Sogonov

Ophiostoma ulmi (Buisman) Melin & Nannfeldt

Orbicula parietina (Schrader) S. Hughes

Orbilia auricolor (A. Bloxam) Saccardo

Orbilia epipora (Nylander) P. Karsten

Orbilia epipora subsp. *major* Spegazzini

Orbilia leucostigma (Fries) Fries

Orbilia luteorubella (Nylander) P. Karsten

Orbilia rubrococcinea (Rehm) Saccardo

Orbilia vinoso (Fries) P. Karsten

Orbilia xanthostigma (Fries) Fries

Ossicaulis lignatilis (Persoon) Redhead & Ginns {C}

Osteina obducta (Berkeley) Donk

Otidea alutacea (Persoon) Massee

Ohio collections identified as *O. alutacea* may include several cryptic species (Olariaga *et al.* 2015).

Otidea bufonia (Persoon) Boudier

Otidea leporina (Batsch) Fuckel

Otidea unicisa (Peck) Harmaja {C}

Otthia ostryogena Ellis & Everhart

Oudemansiella furfuracea (Peck) Zhu L. Yang, G.M. Mueller, G. Kost & Rexer

Oudemansiella megalospora (Clements) Zhu L. Yang, G.M. Mueller, G. Kost & Rexer {C}

Oviculiculopora parmeliae (Berkeley & M.A. Curtis) Etayo

Oxneria fallax (Arnold) S.Y. Kondratyuk & Kärnefelt {L}

Oxyporus corticola (Fries) Ryvarden

Oxyporus obducens (Persoon) Donk

Oxyporus similis (Bresadola) Ryvarden {C}

Pachnolepia pruinata (Persoon) Frisch & G. Thor {L}

Pachyella adnata (Berkeley & M.A. Curtis) Pfister

Pachyella clypeata (Schweinitz) Le Gal

Pachyphlodes citrina (Berk. & Broome) Doweld

Paecilomyces divaricatus (Thom) Samson, Houbraken & Frisvad

Panaeolus antillarum (Fries) Dennis

Panaeolus bisporus (Malençon & Bertault) Ew. Gerhardt {!, C}

Five collections of mine (MU 000296712, MO#188954, MO#188944, MO#188934 and MO#168233) are identified as this species. ITS sequences were obtained for MO#188954, MO#188944 and MO#188934 and support the identification of these collections as *P. bisporus*.

Panaeolus cinctulus (Bolton) Saccardo {C}

Panaeolus fimicola (Fries) Quélet {!, C, S}

A collection of mine from Academy Park in Gahanna (MO#188499) is identified as this species. An ITS sequence was obtained for this collection, which supports the identification of this collection as *P. fimicola*.

Panaeolus foenisecii (Persoon) J. Schröter

Panaeolus fraxinophilus A.H. Smith {!, C, S, *}

A collection of mine from Academy Park in Gahanna (MO#395895) is identified as this species. An ITS sequence was obtained from the collection and a BLAST search supported its placement in *Panaeolus*. Sequences were lacking in GenBank for other collections identified as *P. fraxinophilus*.

Panaeolus papilionaceus (Bulliard) Quélet

Panaeolus semiovatus (Sowerby) S. Lundell & Nannfeldt

Panaeolus solidipes (Peck) Saccardo

Panellus pusillus (Persoon ex Léveillé) Burdsall & O.K. Miller

Panellus stipticus (Bulliard) P. Karsten {C}

Pannaria lurida (Montagne) Nylander {L}

Pannaria rubiginosa (Thunberg) Delise {L}

Panus conchatus (Bulliard) Fries {C}

Panus neostrigosus Drechsler-Santos & Wartchow {C}

Parachnopeziza miniopsis (Ellis) Korf

Paraconiothyrium fuckelii (Saccardo) Verkley & Gruyter

Paragalactinia michelii (Boudier) Van Vooren {C}

Paragalactinia succosa (Berkeley) Van Vooren {C, S}

Paraglomus albidum (C. Walker & L.H. Rhodes) Oehl, F.A. Souza, G.A. Silva & Sieverding

{O}

Paragymnopus perforans (Hoffmann) J.S. Oliveira

Paralepista flaccida (Sowerby) Vizzini

Paralepista maculosa (Saccardo) Vizzini

Paraleptosphaeria macrospora (Thümen) Gruyter, Aveskamp & Verkley

Paramyrothecium roridum (Tode) L. Lombard & Crous

Paranamyces uniporus Letcher and M.J. Powell

Parasola auricoma (Patouillard) Redhead, Vilgalys & Hopple

Parasola conopilea (Fries) Örstadius & E. Larsson

Parasola hemerobia (Fries) Redhead, Vilgalys & Hopple

Parasola leiocephala (P.D. Orton) Redhead, Vilgalys & Hopple

Parasola plicatilis (Curtis) Redhead, Vilgalys & Hopple

Parastagonospora nodorum (Berkeley) W. Quaedvlieg, G.J.M. Verkley & P.W. Crous

Parmelia leana Tuckerman {O, L}

Parmelia madagascariacea (Hue) Abbayes {L}

Parmelia rufecta (Hudson) M. Choisy & Werner {L}

Parmelia saxatilis (Linnaeus) Acharius {L}

Parmelia squarrosa Hale {L}

Parmelia sulcata Taylor {L}

Parmelina coleae Argüello & A. Crespo {L}

Parmelina quercina (Willdenow) Hale {L}

Parmelina tiliacea (Hoffmann) Hale {L}

Parmotrema arnoldii (Du Rietz) Hale {L}

Parmotrema austrosinense (Zahlbruckner) Hale {L}

Parmotrema cetratum (Acharius) Hale {L}

Parmotrema crinitum (Acharius) M. Choisy {L}

Parmotrema despectum Kurokawa {L}

Parmotrema eurysacum (Hue) Hale {L}

Parmotrema gardneri (C.W. Dodge) Sérusiaux {L}

Parmotrema haitiense (Hale) Hale {L}

Parmotrema hypotropum (Nylander) Hale {L}

Parmotrema margaritatum (Hue) Hale {O, L}

Parmotrema perforatum (Wulfen) A. Massalongo {L}

Parmotrema perlatum (Hudson) M. Choisy {L}

Parmotrema reticulatum (Taylor) M. Choisy {L}

Parmotrema stuppeum (Taylor) Hale {L}

Parmotrema subisidiosum (Müller Arg.) Hale {L}

Parmotrema submarginale (Michaux) DePriest & B.W. Hale {L}

Parmotrema subtinctorium (Zahlbruckner) Hale {L}

Parmotrema ultralucens (Krog) Hale {L}

Parmotrema xanthinum (Müller Arg.) Hale {L}

Passalora avicularis (G. Winter) Crous, U. Braun & M.J. Morris

Passalora bataticola (Ciferri & Bruner) U. Braun & Crous

Passalora caulophylli (Peck) U. Braun

Passalora cercidicola (Ellis) U. Braun

Passalora clavata (W.R. Gerard) U. Braun

Passalora convolvuli (Tracy & Earle) U. Braun & Crous

Passalora desmodii (Ellis & Kellerman) U. Braun

Passalora dissiliens (Duby) U. Braun & Crous

Passalora dubia (Riess) U. Braun

Passalora effusa (Berkeley & M.A. Curtis) U. Braun

Passalora fuliginosa (Ellis & Kellerman) Crous, Alfenas & R.W. Barreto

Passalora fulva (Cooke) U. Braun & Crous

Passalora granuliformis (Ellis & Holway) U. Braun

Passalora hamamelidis (Peck) U. Braun & Crous

Passalora helianthi (Ellis & Everhart) U. Braun & Crous

Passalora incarnata (Deighton) U. Braun & Crous

Passalora oculata (Ellis & Kellerman) U. Braun & Crous

Passalora omphacodes (Ellis & Holway) Crous & U. Braun

Passalora pastinaceae (Saccardo) U. Braun

Passalora saniculae (Davis) U. Braun & Crous

Passalora spegazzinii U. Braun

Passalora venturioides (Peck) U. Braun & Crous

Patellaria atrata (Hedwig) Fries {C}

Patellaria tetraspora Massee & Morgan {O}

Patellariopsis atrovinosa (A. Bloxam ex Currey) Dennis

Patellariopsis clavispora (Berkeley & Broome) Dennis

Patinellaria sanguinea (Persoon) H. Karsten

Paxillus involutus (Batsch) Fries

Some Ohio collections identified as this species may represent the very similar *P. vernalis* instead (Jarosch and Bresinsky 1999).

Peltigera aphthosa (Linnaeus) Willdenow {L}

Peltigera canina (Linnaeus) Willdenow {L}

Peltigera canina var. *spongiosa* (Tuckerman) Tuckerman {L}

Peltigera didactyla (Withering) J.R. Laundon {L}

Peltigera elisabethae Gyelnik {L}

Peltigera evansiana Gyelnik {L}

Peltigera horizontalis (Hudson) Baumgarten {L}

Peltigera hymenina (Acharius) Delise {L}

Peltigera lepidophora (Nylander) Bitter {L}

Peltigera membranacea (Acharius) Nylander {L}

Peltigera polydactylon (Necker) Hoffmann {L}

Peltigera praetextata (Flörke ex Sommerf.) Zopf {L}

Peltigera rufescens (Weiss) Humboldt {L}

Peltigera venosa (Linnaeus) Hoffmann {L}

Penicillium aurantiogriseum Dierckx

Penicillium camemberti Thom

Penicillium glaucum Link

Penicillium hirsutum Dierckx

Penicillium hypomyctes Saccardo

Penicillium janczewskii K.W. Zaleski

Peniophora aurantiaca (Bresadola) Höhnel & Litschauer

Peniophora boidinii D.A. Reid {!, C}

A collection of mine from the Ohio State University campus (MO#345314) is identified
as this species.

Peniophora cinerea (Persoon) Cooke {C}

Peniophora incarnata (Persoon) P. Karsten {C, S}

Peniophora laeta (Fries) Donk

Peniophora limitata (Chaillet ex Fries) Cooke

Peniophora lycii (Persoon) Höhnel & Litschauer

Peniophora nuda (Fries) Bresadola

Peniophora polygonia (Persoon) Bourdot & Galzin

Peniophora quercina (Persoon) Cooke

Peniophora rufa (Fries) Boidin

Peniophora rufomarginata (Persoon) Bourdot & Galzin

Peniophora violaceolivida (Sommerfelt) Massee

Peniophorella guttulifera (P. Karsten) K.H. Larsson

Peniophorella pubera (Fries) P. Karsten {C}

Peniophorella subpraetermissa (Sheng H. Wu) K.H. Larsson {!, C}

A collection of mine from Columbus (MU 000292848) is identified as this species. This collection is a good match for *P. subpraetermissa* based on morphology, but this is a species otherwise only known from East Asia (Wu 1997). An attempt to obtain an ITS sequence for this collection failed and this identification should be treated as tentative.

Peniophorella tessulata (Berkeley & M.A. Curtis) Nakasone

Perenniporia compacta (Overholts) Ryvarden & Gilbertson

Perenniporia fraxinophila (Peck) Ryvarden

Perenniporia medulla-panis (Jacquin) Donk

Perenniporia subacida (Peck) Donk

Perenniporia tenuis (Schweinitz) Ryvarden

Periconia byssoides Persoon

Peroneutypa scoparia (Schweinitz) Carmarán & A.I. Romero

Pertusaria globularis (Acharius) Tuckerman {L}

Pertusaria leioplaca DeCandolle {L}

Pertusaria macounii (I.M. Lamb) Dibben {L}

Pertusaria marginata Nylander {L}

Pertusaria ostiolata Dibben {L}

Pertusaria paratuberculifera Dibben {L}

Pertusaria pertusa (Linnaeus) Tuckerman {L}

Pertusaria plittiana Erichsen {L}

Pertusaria pustulata (Acharius) Duby {L}

Pertusaria rubescens Erichsen {L}

Pertusaria subpertusa Brodo {L}

Pertusaria tetrathalamia (Fée) Nylander {L}

Pertusaria texana Müller Arg. {L}

Pertusaria xanthodes Müller Arg. {L}

Pestalotia heterocornis Guba

Pestalotiopsis funereoides Steyaert

Pestalotiopsis versicolor (Spegazzini) Steyaert

Peyritschella furcifera (Thaxter) I.I. Tavares

Peyronellaea obtusa (Fuckel) Aveskamp, Gruyter & Verkley

Pezicula acericola (Peck) Peck ex Saccardo & Berlese

Pezicula carpinea (Persoon) Tulasne & C. Tulasne ex Fuckel

Pezicula cinnamomea (DeCandolle) Saccardo

Peziza ampliata Persoon

Peziza arvernensis Roze & Boudier

Peziza atrofuscata Schweinitz

Not a true *Peziza*. This species may belong in *Cengangiopsis* and was given a combination in that genus my M. P. Sharma, but this combination was not validly published (Dennis 1963; Perić, Baral and Pärtel 2015).

Peziza atrovinosa Cooke & W.R. Gerard {C, S}

Peziza brunneoatra Desmazières

Peziza chlorascens Schweinitz

Not a true *Peziza*. This species may belong in the Dermateaceae (Ramamurthi, Korf and Batra 1957).

Peziza domiciliana Cooke

Peziza echinospora P. Karsten

Peziza griseorosea W.R. Gerard

Peziza labessiana (Boudier) Svrcek {!, C}

A collection of mine from Tar Hollow State Park (FLAS-F-64203) is identified as this species.

Peziza mespiliformis Wallroth

Peziza ostracoderma Korf

Including collections under the anamorph name *Chromelosporium fulvum*. Some of these Ohio collections identified as *C. fulvum* may represent the anamorphs of other taxa in the Pezizales instead (Henneber 2020).

Peziza praetervisa Bresadola

Peziza sepiatrica Cooke

Peziza sepiatrella Saccardo

Peziza spissa Berkeley

Peziza varia (Hedwig) Albertini & Schweinitz {C}

Peziza vesiculosa Bulliard

Pezizella hyalinosulphurea Rehm

Phacostromella coronata (Fuckel) Petrak

Phaeocalicium curtisii (Tuckerman) Tibell {L}

Phaeocalicium polyporaeum (Nylander) Tibell {L}

Phaeocalicium populneum (Brondeau ex Duby) A.F.W. Schmidt {L}

Phaeoclavulina abietina (Persoon) Giachini

Phaeoclavulina argentea (R.H. Petersen) Giachini

Phaeoclavulina eumorpha (P. Karsten) Giachini

Phaeoclavulina flaccida (Fries) Giachini

Phaeoclavulina macrospora Brinkmann

Phaeocystostroma ambiguum (Montagne) Petrak

Phaeographis inusta (Acharius) Müller Arg. {L}

Phaeohelotium epiphyllum (Persoon) Hengstmengel

Phaeohelotium monticola (Berkeley) Dennis {!, C}

A collection of mine from Alexandria (MO#398214) is identified as this species.

Phaeoisaria glauca (Ellis & Everhart) de Hoog & Papendorf

Phaeolus schweinitzii (Fries) Patouillard

Phaeophyscia adiastola (Esslinger) Esslinger {L}

Phaeophyscia cernohorskyi (Nádvorník) Esslinger {L}

Phaeophyscia ciliata (Hoffmann) Moberg {L}

Phaeophyscia decolor (Kashiwadani) Esslinger {L}

Phaeophyscia endococcina (Körber) Moberg {L}

Phaeophyscia hirsuta (Mereschkowski) Esslinger {L}

Phaeophyscia hirtella Esslinger {L}

Phaeophyscia hispidula (Acharius) Esslinger {L}

Phaeophyscia imbricata (Vainio) Esslinger {L}

Phaeophyscia insignis (Mereschkowski) Moberg {L}

Phaeophyscia leana (Tuckerman) Esslinger {O, L}

Phaeophyscia orbicularis (Necker) Moberg {L}

Phaeophyscia pusilloides (Zahlbrückner) Esslinger {L}

Phaeophyscia rubropulchra (Degelius) Esslinger {L}

Phaeophyscia sciastra (Acharius) Moberg {L}

Phaeophyscia squarrosa Kashiwadani {L}

Phaeosolenia ravenelii (Berkeley & M.A. Curtis) W.B. Cooke

Phaeostalagmus altissimus C.J.K. Wang & B. Sutton

Phaeotremella foliacea (Persoon) Wedin, J.C. Zamora & Millanes

Phaeotremella frondosa (Fries) Spirin & V. Malysheva {C}

Phallogaster saccatus Morgan {O}

Phallus hadriani Ventenat

Phallus impudicus Linnaeus

Phallus indusiatus Ventenat

Phallus ravenelii Berkeley & M.A. Curtis

Phanerochaete burtii (Romell) Parmasto {O}

Phanerochaete calotricha (P. Karsten) J. Eriksson & Ryvarden

Phanerochaete carnosa (Burt) Parmasto

Phanerochaete incrustans (Spegazzini) Rajchenberg & J.E. Wright

Phanerochaete laevis (Fries) J. Eriksson & Ryvarden

Phanerochaete magnoliae (Berkeley & M.A. Curtis) Burdsall {!, C, S}

A collection of mine from Galena (MU 000292841) is identified as this species. This collection was identified as *P. magnoliae* based on an ITS sequence obtained from it. MU 000292841 was an unusual collection of this species in that it had few cystidia, if any (Volobuev *et al.* 2015).

Phanerochaete sanguinea (Fries) Pouzar

Phanerochaete sordida (P. Karsten) J. Eriksson & Ryvarden

Phanerochaete subceracea (Burt) Burdsall

Phanerochaete tuberculata (P. Karsten) Parmasto {C}

Phanerochaete velutina (DeCandolle) P. Karsten

Phanerochaete viticola (Schweinitz) Parmasto

Phellinidium ferrugineofuscum (P. Karsten) Fiasson & Niemelä

Phellinopsis conchata (Persoon) Y.C. Dai

Phellinus badius (Cooke) G. Cunningham

Phellinus everhartii (Ellis & Galloway) A. Ames

Phellinus nigricans (Fries) P. Karsten

Phellinus pomaceus f. *crataegi* (D.V. Baxter) Domański, Orłos & Skirgiello

P. pomaceus is a strictly European species. *P. pomaceus* f. *crataegi* is a form described from North America and may be an earlier name for the North American segregate species *P. pomaceoides* (Niemelä 1997, Zhou *et al.* 2016b).

Phellinus prunicola (Murrill) Gilbertson

Phellinus spiculosus (W.A. Campbell & R.W. Davidson) Niemelä

Phellodon confluens (Persoon) Pouzar {C}

Phellodon fibulatus K.A. Harrison

Phellodon fuligineoalbus (J.C. Schmidt) Baird {C}

Phellodon melaleucus (Swartz ex Fries) P. Karsten

Phellodon niger (Fries) P. Karsten

Phellodon putidus (G.F. Atkinson) Banker

Phellodon tomentosus (Linnaeus) Banker

Phellodon violascens (Albertini & Schweinitz) A.M. Ainsworth

Phellorinia erinacea (Spegazzini) Spegazzini

Phialocephala aylmerensis J.B. Tanney & B. Douglas {!,#}

A collection by Crystal Davidson from the Batavia Township Sports Complex (MO#378075) was identified as this species. An ITS sequence obtained from this collection supports its identification as *P. aylmerensis*.

Phlebia acerina Peck {!, C, S}

A collection of mine from Shafer Park in Westerville (MO#278977) is identified as this species and is pictured in Fig. 2D. An ITS sequence obtained for this collection supports its identification as *P. acerina*.

Phlebia chrysocreas (Berkeley & M.A. Curtis) Burdsall

Phlebia coccineofulva Schweinitz {C}

Phlebia cretacea (Romell ex Bourdot & Galzin) J. Eriksson & Hjortstam

Phlebia fascicularis (Rick) Nakasone & Burdsall

Phlebia hydnoidea Schweinitz

Phlebia ludoviciana (Burt) Nakasone & Burdsall {!, C}

A collection of mine from Shafer Park in Westerville (MU 000296932) is identified as this species.

Phlebia radiata Fries {C}

Phlebia rufa (Persoon) M.P. Christiansen

Phlebia setulosa (Berkeley & M.A. Curtis) Nakasone {!, C}

A collection of mine from Flint Ridge State Park (MO#393782) is identified as this species.

Phlebia tuberculata (Hallenberg & E. Larsson) Ghobad-Nejhad

Phlebiella tulasnelloidea (Höhnel & Litschauer) Ginns & M.N.L. Lefebvre

Phlebiopsis crassa (Léveillé) Floudas D. & Hibbett D.S. {C}

Phlebiopsis flavidaoalba (Cooke) Hjortstam {C}

Phlebiopsis gigantea (Fries) Jülich

Phlebiopsis ravenelii (Cooke) Hjortstam {H}

A C. G. Lloyd collection (F260296) at S is identified as this species.

Phleogena faginea (Fries & Palmquist) Link {C}

Phloeomana clavata (Peck) Redhead {!, C}

A collection of mine from Cedar Bog (MO#366859) is identified as this species.

Phloeomana hiemalis (Osbeck) Redhead {!, C}

A collection of mine from Gahanna Woods (MO#365936) is identified as this species.

Phloeomana minutula (Saccardo) Redhead

Phloeomana speirea (Fries) Redhead {C}

Phlyctema iridis (Ellis & G. Martin) Petrak

Phlyctis agelaea (Acharius) Flotow {L}

Phlyctis argena (Acharius) Flotow {L}

Phlyctis boliviensis Nylander {L}

Phlyctis petraea R.C. Harris, Muscavitch, Ladd & Lendemer {L}

Pholiota aberrans A.H. Smith & Hesler

Pholiota adiposa (Batsch) P. Kummer

Pholiota angustipes (Peck) Saccardo {C}

Three collections of mine (MU 000297124, MO#337035 and MO#337034) are identified as this species. L. O. Overholts (1927) also collected this species from Ohio, but these collections are not present in MyCoPortal. Some Overholts collections are present at OS, which is not accessible on MyCoPortal, and it is possible that his *P. angustipes* collections could be among these.

Pholiota aurivella (Batsch) P. Kummer {C}

Pholiota contorta A.H. Smith & Hesler {O}

Pholiota discolor (Peck) Saccardo

Pholiota granulosa (Peck) A.H. Smith & Hesler {C}

Pholiota gummosa (Lasch) Singer

Pholiota highlandensis (Peck) A.H. Smith & Hesler

The similar *P. brunnescens* is also present in the Midwestern United States (Matheny *et al.* 2018). It is possible that some Ohio collections identified as *P. highlandensis* could represent *P. brunnescens* instead.

Pholiota johnsoniana (Peck) G.F. Atkinson

Pholiota lenta (Persoon) Singer

Pholiota limonella (Peck) Saccardo

Pholiota lubrica (Persoon) Singer

Pholiota mixta (Fries) Kuyper & Tjallingii-Beukers

Pholiota paludosella (G.F. Atkinson) A.H. Smith & Hesler {O}

Pholiota piceina (Murrill) A.H. Smith & Hesler

Pholiota polychroa (Berkeley) A.H. Smith & H.J. Brodie {C}

Pholiota prolixa A.H. Smith & Hesler

This species may be synonymous with *P. parvula*, and possibly also with *P. conissans* (Tian and Matheny 2020).

Pholiota pseudosiparia A.H. Smith & Hesler {!, C}

A collection of mine from Alexandria (MO#398270) is identified as this species. This species may belong in *Flammulaster* or some other similar genus rather than in *Pholiota sensu stricto*.

Pholiota simulans A.H. Smith & Hesler

Pholiota spumosa (Fries) Singer

Pholiota squalida (Peck) A.H. Smith & Hesler

Pholiota squarrosa (Oeder) P. Kummer {C}

Pholiota squarrosoadiposa J.E. Lange

Pholiota squarrosoides (Peck) Saccardo {C}

Pholiota subsulphurea A.H. Smith & Hesler {!, C, S, *, #}

A collection of mine from Stonelick State Park (MU 000292839) was identified as this species. A collection by Crystal Davidson from the Otto Armleder Dog Park in Cincinnati (MO#366306) was also identified as this species. ITS sequences were obtained for both of these collections, but other collections identified as *P. subsulphurea* were lacking in GenBank. This species may not belong in *Pholiota sensu stricto* and is in need of revision.

Pholiota terrestris Overholts

Pholiotina aporos (Kits van Waveren) Clémençon {!, C}

A collection of mine from Academy Park in Gahanna (MO#406523) is identified as this species.

Pholiotina brunnea (J.E. Lange & Kühner ex Watling) Singer

Pholiotina intermedia (A.H. Smith) Singer

Pholiotina pygmaeoaffinis (Fries) Singer

Pholiotina vexans (P.D. Orton) Bon {!, C, S}

A collection of mine from Mentor (PUL F26246) is identified as this species. An ITS sequence obtained for this collection supports its identification as *P. vexans*.

Phoma dispersa Cooke

Phoma herbarum Westendorp

Phoma leguminum Westendorp

Phoma longissima (Persoon) Westendorp

Phoma lophanthei Bubák {O}

Phoma mariae G.P. Clinton

Phoma media Ellis & Everhart

Phoma pallens Berkeley & M.A. Curtis

Phoma persicae Saccardo

Phomopsis convallariae (Westendorp) Grove

Phomopsis endogena (Spegazzini) Ciferri

Phomopsis glandicola (Léveillé) González Fragoso

Phomopsis incarcerated (Saccardo) Höhnel

Phomopsis japonica (Saccardo) Traverso

Phomopsis lirella (Desm.) Grove

Phomopsis longicolla Hobbs {O}

Phomopsis menispermi (Peck) Grove

Phomopsis obscurans (Ellis & Everhart) B. Sutton

Phomopsis occulta Traverso

Phomopsis phlyctaenoides (Berkeley & M.A. Curtis) Höhnel

Phomopsis phytolaccae (Berkeley & M.A. Curtis) Grove

Phomopsis rufis (Saccardo) Höhnle

Phomopsis vexans (Saccardo & P. Sydow) Harter

Phragmidium americanum (Peck) Dietel

Phragmidium fragariae (De Candolle) G. Winter

Phragmidium ivesiae Sydow & P. Sydow

Phragmidium mucronatum (Persoon) Schlechtendal

Phragmidium potentillae (Persoon) P. Karsten

Phragmidium potentillae-canadensis Dietel {O}

Phragmidium speciosum (Fries) Burrill

Phragmotrichum chailletii Kunze

Phylacia turbinata (Berkeley) Dennis

Phyllachora graminis (Persoon) Fuckel

Phyllachora lespedezae (Schweinitz) Saccardo

Phyllachora luteomaculata (Schweinitz) Orton ex J.A. Stevenson

Phyllachora microsperma Parbery

Phyllachora panici (Schweinitz) Saccardo

Phyllachora potentillae (Schweinitz) Peck

Phyllachora solidaginum (Saccardo) Saccardo

Phyllachora vulgata Theissen & Sydow

Phyllactinia alnicola U. Braun {H}

A W. A. Kellerman collection (MA-Fungi 30943) at MA (Herbario de Criptogamia 2020).

Phyllactinia angulata (E.S. Salmon) S. Blumer {O}

Phyllactinia celastri U. Braun {O,H}

Two W. A. Kellerman collections (F270779 and F270780) at S are identified as this species.

Phyllactinia guttata (Wallroth) Léveillé

Phyllactinia mali (Duby) U. Braun

Phylloedua faginea (Libert) Saccardo

Phylloporia ribis (Schumacher) Ryvarden

Phylloporus foliiporus (Murrill) Singer

Phylloporus leucomycelinus Singer {!, C}

Two collections of mine (MU 000296920 and MU 000296949) are identified as this species. Some Ohio collections identified as *P. rhodoxanthus* may represent this species as well.

Phylloporus rhodoxanthus (Schweinitz) Bresadola {C}

Phylloscypha phyllogena (Cooke) Van Vooren {C}

Phyllosticta aceris (Saccardo) Saccardo

Phyllosticta ampelicida (Engelmann) Aa

Phyllosticta asiminae Ellis & Kellerman {O}

Phyllosticta bignoniae Westendorp

Phyllosticta catalpicola (Schweinitz) Ellis & Everhart

Phyllosticta cercidicola Ellis & Everhart

Phyllosticta confertissima Ellis & Everhart

Phyllosticta cookei Saccardo

Phyllosticta cruenta (Kunze ex Fries) J. Kickx f.

Phyllosticta cucurbitacearum Saccardo

Phyllosticta decidua Ellis & Kellerman {O}

Phyllosticta dioscoreae (Cooke) Cooke

Phyllosticta fraxini Ellis & G. Martin

Phyllosticta fuscozonata Thümen

Phyllosticta ipomoeae Ellis & Kellerman

Phyllosticta larpentae Tassi

Phyllosticta liriodendri Thümen

Phyllosticta magnoliae Saccardo

Phyllosticta minima (Berkeley & M.A. Curtis) Underwood & Earle

Phyllosticta paviae Desmazières

Phyllosticta persicae Saccardo {O}

Phyllosticta phaseolina Saccardo

Phyllosticta podophylli (M.A. Curtis) G. Winter

Phyllosticta populea Saccardo

Phyllosticta rubella S. Wikee & P.W. Crous

Phyllosticta smilacina Spegazzini

Phyllosticta solani Ellis & G. Martin

Phyllosticta solitaria Ellis & Everhart

Phyllosticta subeffusa (Ellis & Everhart) Tehon & G.L. Stout

*Phyllosticta verbena*e Saccardo

Phyllosticta vincae-minoris Bresadola & Krieg.

Phyllotopsis nidulans (Persoon) Singer

Physcia adscendens (Fries) H. Olivier {L}

Physcia aipolia (Ehrhart ex Humboldt) Fürnrohr {L}

Physcia americana G. Merrill {L}

Physcia astroidea (Baglietto) Nylander {L}

Physcia caesia (Hoffmann) Hampe ex Fürnrohr {L}

Physcia clementei (Turner) Lyngé {L}

Physcia dubia (Hoffmann) Lettau {L}

Physcia halei J.W. Thomson {L}

Physcia lacinulata Müller Arg. {L}

Physcia millegrana Degelius {L}

Physcia phaea (Tuckerman) J.W. Thomson {L}

Physcia pseudospeciosa J.W. Thomson {L}

Physcia pulverulenta (Schreber) Hampe ex Fürnrohr {L}

Physcia pumilior R.C. Harris {L}

Physcia stellaris (Linnaeus) Nylander {L}

Physcia subtilis Degelius {L}

Physcia thomsoniana Esslinger {L}

Physcia tribacia (Acharius) Nylander {L}

Physcia tribacioides Nylander {L}

Physciella chloantha (Acharius) Esslinger {L}

Physciella melanchra (Hue) Esslinger {L}

Physconia americana Esslinger {L}

Physconia detersa (Nylander) Poelt {L}

Physconia distorta (Withering) J.R. Laundon {L}

Physconia enteroxantha (Nylander) Poelt {L}

Physconia grisea (Lamarck) Poelt {L}

Physconia kurokawae Kashiwadani {L}

Physconia leucoleiptes (Tuckerman) Esslinger {L}

Physconia subpallida Esslinger {L}

Physisporinus crocatus (Patouillard) F. Wu, Jia J. Chen & Y.C. Dai {C}

Physisporinus sanguinolentus (Albertini & Schweinitz) Pilát

Physisporinus vinctus (Berkeley) Murrill

Physisporinus vitreus (Persoon) P. Karsten

Physoderma maydis (Miyabe) Miyabe

Piccola nannaria (Tuckerman) Lendemer & Beeching {L}

Picipes badius (Persoon) I.V. Zmitrovich & A.E. Kovalenko

Picipes melanopus (Persoon) I.V. Zmitrovich & A.E. Kovalenko

Pileolaria terebinthi Castagne

Pilidium lythri (Desmazières) Rossman

Pilobolus crystallinus (F.H. Wiggers) Tode

Piloderma fallax (Libert) Stalpers

Piptocephalis freseniana de Bary

Pisolithus arhizus (Scopoli) Rauschert {H}

A C. G. Lloyd collection (F310712) at S is identified as this species.

Pithya cupressina (Batsch) Fuckel

Placidiopsis minor R.C. Harris {L}

Placidium arboreum (Schweinitz ex E. Michener) Lendemer {L}

Placidium lachneum (Acharius) B. de Lesdain {L}

Placidium squamulosum (Acharius) Breuss {L}

Placidium tuckermanii (Ravenel ex Montagne) Breuss {L}

Placopyrenium fuscellum (Turner) Gueidan & Cl. Roux {L}

Placynthiella dasaea (Stirton) Tønsberg {L}

Placynthiella hyporhoda (Th. Fries) Coppins & P. James {L}

Placynthiella icmalea (Acharius) Coppins & P. James {L}

Placynthiella oligotropha (J.R. Laundon) Coppins & P. James {L}

Placynthiella uliginosa (Schrader) Coppins & P. James {L}

Placynthium asperellum (Acharius) Trevisan {L}

Placynthium nigrum (Hudson) Gray {L}

Placynthium petersii (Nylander) Burnham {L}

Plagiostoma salicellum (Fries) Sogonov

Platismatia lacunosa (Acharius) W.L. Culberson & C.F. Culberson {L}

Platismatia tuckermanii (Oakes) W.L. Culberson & C.F. Culberson {L}

Platysma lacunosum (Acharius) Nylander {L}

Platystomum tingens (Ellis) Saccardo & D. Saccardo

Plenozythia equiseti Arx

Pleonectria chlorinella (Cooke) Hirooka, Rossman & P. Chaverri

Pleopsidium flavum Körber {L}

Pleosphaeria microloncha (Berkeley & M.A. Curtis) Saccardo

Pleuroceras gleditschiae (J.H. Miller & F.A. Wolf) M.E. Barr

Reported in Ohio as the anamorph synonym *Leptostroma hypophyllum* (Luck 1947).

Pleurocybella porrigens (Persoon) Singer

Pleuroflammula multifolia (Peck) E. Horak

This is not a true *Pleuroflammula* species, but it also does not belong in *Pholiota* or

Flammulaster (M. Catherine Aime pers. comm.). It may require a novel genus.

Pleuroflammula tuberculosa (Schaeffer) E. Horak

This may not be a true *Pleuroflammula* species, but it is not a *Pholiota* either. Its proper generic placement is unclear, but it appears to belong in the Crepidotaceae. It may require a new genus (Petersen, Knudsen, and Seberg 2010).

Pleurothecium recurvatum (Morgan) Höhnel {O}

Pleurotus cornucopiae (Paulet) Rolland

Pleurotus cystidiosus O.K. Miller {!, C}

A collection of mine from Columbus (MO#324007) is identified as this species. This collection was of the "*Antromycopsis broussonetiae*" anamorph stage of *P. cystidiosus*. This species is likely rare in Ohio, and in the Midwest more generally (Stephen Russell pers. comm.).

Pleurotus dryinus (Persoon) P. Kummer {C}

Pleurotus levis (Berkeley & M.A. Curtis) Singer

Pleurotus ostreatus (Jacquin) P. Kummer

Pleurotus sapidus Quélet

Plicaria trachycarpa (Currey) Boudier

Plicariella flavovirens (Fuckel) Van Vooren & Moyne {!, C, S, *}

A collection of mine from Mohican State Park (FLAS-F-62609) is identified as this species. An ITS sequence was obtained for this collection, but other sequences identified as *P. flavovirens* were lacking in GenBank.

Plicatura nivea (Fries) P. Karsten

Plicaturopsis crispa (Persoon) D.A. Reid {C}

Ploioderma hedgcockii (Dearness) Darker

Ploioderma lethale (Dearness) Darker

Pluteus americanus (P. Banerjee & Sundberg) Justo, E.F. Malysheva & Minnis {!, C}

Four collections of mine (MU 000296742, MO#271197, MO#303457 and MO#414424) are identified as this species. This species is occasional on hardwood logs in our area and probably the most common bluing *Pluteus* species in Ohio. Most Ohio collections identified as the strictly Eurasian *P. salicinus* likely represent this species instead (Justo *et al.* 2014).

Pluteus aurantiorugosus (Trog) Saccardo

Pluteus cervinus (Schaeffer) P. Kummer {C}

Some Ohio collections identified as this species may represent *P. hongoi*, *P. petasatus*, or other similar species in *Pluteus* sect. *Pluteus* instead (Justo *et al.* 2014).

Pluteus chrysophlebius (Berkeley & M.A. Curtis) Saccardo {C}

Pluteus deceptivus Minnis & Sundberg {!, C, S}

Three collections (MO#396851, MO#304929 and MO#304930) were identified as this species of mine based on their morphology. ITS sequences were obtained for all three of these collections, which places each as a separate species, two of which are conspecific with other North American collections identified as *P. deceptivus*. It is likely that one of these collections represents the true *P. deceptivus*, but which one that is is not yet clear. Regardless, there are also two other cryptic *P. deceptivus*-like species in Ohio (Alfredo Justo unpublished data).

Pluteus flavofuligineus G.F. Atkinson

Pluteus fuliginosus Murrill {!, C}

A collection of mine from Blacklick Woods Metro Park (MO#273627) is identified as this species.

Pluteus granularis Peck

Pluteus hongoi Singer {!, C}

Three collections of mine (MU 000296983, MU 000296994 and MO#319520) are identified as this species. This is one of our most common *Pluteus* species and is very similar to *P. cervinus*. Many Ohio collections identified as *P. cervinus* likely represent this species instead (Justo *et al.* 2014).

Pluteus longistriatus (Peck) Peck {C}

Pluteus methvenii Minnis & Justo {!, C}

Two collections of mine (MO#258071 and MO#296353) are identified as this species.

This species is very similar to *P. cervinus*, but grows exclusively on conifer wood and differs in its microscopic features (Justo *et al.* 2014). Some Ohio collections identified as *P. cervinus* may represent this species instead.

Pluteus nanus (Persoon) P. Kummer

It is not yet clear what the true *P. nanus* is. Several species have gone under this name in Europe, and it is not clear which of these, if any, represent Persoon's species. Whether this species truly occurs in North America is another issue yet to be addressed (Justo *et al.* 2011, Alfredo Justo pers. comm.).

Pluteus petasatus (Fries) Gillet {C}

Pluteus phlebophorus (Ditmar) P. Kummer

A W. B. Cooke collection (MU 000164846) identified in Mycoportal as "Pluteus species" represents this species (Minnis and Sundberg 2010).

Pluteus saupei Justo & Minnis {!, C}

A collection by Chris Curry from Trumbull County (MO#300931) was identified as examined of mine and identified as this species. This species is similar to *P. americanus* but differs in its pleurocystidia lacking horns. This species is likely rare in Ohio, but some collections identified as the strictly Eurasian *P. salicinus* may also represent this species (Justo *et al.* 2014).

Pluteus septocystidiatus Ševčíková, Antonín & Borovička {!, C,#}

A collection of mine from the Upper Alum Creek Corridor in Morrow County (MO#442035) is identified as this species. A collection by Crystal Davidson from Pierce Township in Clermont County (MO#366665) is also identified as this species. ITS and TEF1 sequences were obtained from MO#366665 and support its identification as *P. septocystidiatus*.

Pluteus seticeps (G.F. Atkinson) Singer {!, C, S}

Two collections of mine (MO#396744 and MO#177404) are identified as this species. ITS and LSU sequences were obtained for MO#177404 which support its identification as *P. seticeps*.

Pluteus tomentosulus Peck

Podoscypha elegans (G. Meyer) Patouillard

Podoscypha multizonata (Berkeley & Broome) Patouillard

Podoscypha ravenelii (Berkeley & M.A. Curtis) Patouillard

Podosphaera aphanis (Wallroth) U. Braun & S. Takamatsu

Podosphaera clandestina (Wallroth) Léveillé

Podosphaera ferruginea (Schlechtendal) U. Braun & S. Takamatsu

As *Sphaerotheca sanguisorbae* (Bresinsky 2016).

Podosphaera fuliginea (Schlechtendal) U. Braun & S. Takamatsu

Podosphaera fusca (Fries) U. Braun & Shishkoff

Podosphaera leucotricha (Ellis & Everhart) E.S. Salmon

Podosphaera macularis (Wallroth) U. Braun & S. Takamatsu

Podosphaera minor Howe

Podosphaera pannosa (Wallroth) de Bary

Podosphaera phytoptophila (Kellerman & Swingle) U. Braun & S. Takamatsu

Podosporiella verticillata O'Gara

Polyblastidium casarettianum (A. Massalongo) K. Kalb {L}

Polyblastidium hypoleucum (Acharius) K. Kalb {L}

Polyblastidium squamulosum (Degelius) K. Kalb {L}

Polycauliona candelaria (Linnaeus) Frödén, Arup & Søchting {L}

Polycauliona polycarpa (Hoffmann) Frödén, Arup & Søchting {L}

Polycephalomyces tomentosus (Schrader) K.A. Seifert {C}

Polycoccum minutulum Kocourková & F. Berger

Polyporus radicatus Schweinitz

Polyporus tuberaster (Jacquin ex Persoon) Fries

Polysporina simplex (Taylor) Vězda {L}

Polysporina subfuscescens (Nylander) K. Knudsen & Kocourková

Polythrincium trifolii Kunze

Poria decolorans (Schweinitz) Cooke

A poorly known but potentially valid species (Overholts 1923, Overholts 1929). If it is not a synonym of some other resupinate polypore species, then it requires a combination in a new genus.

Poria laetifica (Peck) Saccardo

Similar to *Hapalopilus mutans* according to Overholts (1923). Possibly a synonym of that species. If it is not a synonym of that or another species, it requires a combination in a new genus.

Porina scabrida R.C. Harris {L}

Porodisculus pendulus (Schweinitz ex Fries) Murrill {C}

Poronia punctata (Linnaeus) Fries

Porostereum spadiceum (Persoon) Hjortstam & Ryvarden

Porotheleum fimbriatum (Persoon) Fries

Porphyrellus fumosipes (Peck) Snell

Possible synonym of *P. sordidus* (Both 1993).

Porphyrellus sordidus (Frost) Snell {C}

Porpidia albocaerulescens (Wulfen) Hertel & Knoph {L}

Porpidia cinereoatra (Acharius) Hertel & Knoph {L}

Porpidia crustulata (Acharius) Hertel & Knoph {L}

Porpidia degelii (H. Magnusson) Lendemer {L}

Porpidia macrocarpa (DeCandolle) Hertel & A.J. Schwab {L}

Porpidia soredizodes (Lamy) J.R. Laundon {L}

Porpidia speirea (Acharius) Krempelhuber {L}

Porpidia subsimplex (H. Magnusson) Fryday {L}

Porpidia tahawasiana Gowan {L}

Porpolomopsis calyptiformis (Berkeley) Bresinsky

Porpomyces mucidus (Persoon) Jülich

Postia caesia (Schrader) P. Karsten

Postia fragilis (Fries) Jülich {C}

Postia guttulata (Peck) Jülich

Postia sericeomollis (Romell) Jülich

Postia tephroleuca (Fries) Jülich

Proliferodiscus pulveraceus (Albertini & Schweinitz) Baral

Propolis farinosa (Persoon) Fries {C}

Prostheciumpyriforme Jaklitsch & Voglmayr

Protoblastenia calva (Dickson) Zahlbruckner {L}

Protoblastenia rupestris (Scopoli) J. Steiner {L}

Protocrea pallida (Ellis & Everhart) Jaklitsch, K. Pöldmaa & Samuels

Protopcreopsis albofimbriata (Saccardo & Penzig) Yoshim. Doi

Protoparmelia oleagina (Harmand) Coppins {L}

Protoparmeliopsis muralis (Schreber) M. Choisy {L}

Protostropharia semiglobata (Batsch) Redhead, Moncalvo & Vilgalys

Pruniphilomyces circumscissus (Saccardo) Crous & Bulgakov

Psathyrella ammophila (Léveillé & Durieu) P.D. Orton

Psathyrella artemisiae (Passerini) Konrad & Maublanc

Psathyrella atomata (Fries) Quélet

Psathyrella atrifolia (Peck) A.H. Smith

P. atrifolia *sensu* Smith is *P. praevenuis*, but the Ohio collections were collected by C. G.

Lloyd (as *Hypholoma atrifolium*) before Smith's (1971) monograph of *Psathyrella*. It is not yet clear if Peck's species is the same as Smith's concept of it (Voto, Dovana, and Garbelotto 2019).

Psathyrella bipellis (Quélet) A.H. Smith {!, C}

A collection of mine from Academy Park in Gahanna (MU 000296916) is identified as this species.

Psathyrella canadensis A.H. Smith {!, C}

A collection of mine from Mohican State Park (MO#409544) is identified as this species.

This species likely belongs in *Typhrasa* and could be a junior synonym of *T. gossypina* (Moreau and Padovan 2003; Örstadius, Ryberg, and Larsson 2015). The North American species in this group are in need of revision.

Psathyrella corrugis (Persoon) Konrad & Maublanc

Psathyrella crenata (Lasch) Gillet

Psathyrella debilis Peck {!, C, S, *}

A collection of mine from the Scioto Audubon Metro Park (MO#370205) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search on this sequence suggests that this species may belong in *Coprinopsis* rather than *Psathyrella sensu stricto*. Other collections identified as *P. debilis* were lacking in GenBank.

Psathyrella delineata (Peck) A.H. Smith {C}

This species may belong in *Typhrasa* (Örstadius, Ryberg, and Larsson 2015).

Psathyrella ferrugipes A.H. Smith {O}

Psathyrella hirta Peck {B}

Kellerman (1907i) cites a collection from the Ohio State University campus. This collection may at OS, which is not accessible on MyCoPortal.

Psathyrella hymenocephala (Peck) A.H. Smith

This species is apparently very close to *Candolleomyces candolleanus* and may require a combination in that genus if it is not synonymous with *C. candolleanus* (Smith 1971, Padamsee *et al.* 2008).

Psathyrella incerta (Peck) A.H. Smith {C}

This species is also very close to *Candolleomyces candolleanus* and may require a combination in that genus (Smith 1971, Padamsee *et al.* 2008).

Psathyrella kauffmanii A.H. Smith

Psathyrella kellermanii (Peck) Singer {O}

Psathyrella lacrymabunda var. *aggregata* (Peck) A.H. Smith

This taxon belongs in *Lacrymaria*. If it is not synonymous with *L. lacrymabunda*, then it may require a new species-level combination in that genus (Smith 1971).

Psathyrella microsperma (Peck) A.H. Smith {O}

Psathyrella minima Peck {O}

Psathyrella obtusata (Fries) A.H. Smith

Psathyrella pennata (Fries) A. Pearson & Dennis

Psathyrella piluliformis (Bulliard) P.D. Orton

Psathyrella potteri A.H. Smith {!, C}

A collection of mine from the Ohio State University campus (MO#410078) is identified as this species.

Psathyrella prona (Fries) Gillet

Psathyrella pulicosa (Montagne) Guzmán {O, B}

Described from Ohio (Murrill 1923, Guzmán 1978), but no records present in MyCoPortal. The type may be at MNHN.

Psathyrella rhodophaea (Montagne) Guzmán {O, B}

Described from Ohio (Murrill 1923, Guzmán 1978), but no records present in MyCoPortal. The type may be at MNHN.

Psathyrella senex (Peck) A.H. Smith {!, C}

A collection of mine from Holden Arboretum (MO#393023) is identified as this species.

Psathyrella septentrionalis A.H. Smith

Psathyrella subagraria (G.F. Atkinson) A.H. Smith

Psathyrella subamara A.H. Smith {!, C, S}

A collection of mine from Tuttle Park in Columbus (MO#366070) is identified as this species. An ITS sequence was obtained, and a BLAST search for this sequence suggests that this species belongs in *Cystoagaricus* rather than *Psathyrella sensu stricto*. This sequence is apparently conspecific with 2 collections in GenBank identified as *C. sylvestris*. However, the other sequence for a collection identified as *P. subamara* in GenBank (Accession = DQ986261.1) is conspecific with another, different collection identified as *C. sylvestris*. It is unclear which clade corresponds to the true *C. sylvestris*, and which corresponds to the true *P. subamara*. This group is in need of revision and one is currently underway (Stephen Russell pers. comm.).

Psathyrella sullivantii (Montagne) Guzmán {O, B}

Described from Ohio (Murrill 1923, Guzmán 1978), but no records present in MyCoPortal. The type may be at MNHN.

Psathyrella tenera Peck

Psathyrella tephrophylla (Romagnesi) Bon {!, C}

A collection of mine from Woodside Green Park in Gahanna (MO#410067) is identified as this species.

Psathyrella trepida (Fries) Gillet

Psathyrella variabilissima A.H. Smith

Psathyrella vestita (Peck) A.H. Smith

Psathyrella waltersii A.H. Smith {O}

Pseudevernia consocians (Vainio) Hale & W.L. Culberson {L}

Pseudoboletus parasiticus (Bulliard) Šutara

Pseudocenangium succineum (Sprée) Dyko & B. Sutton

Pseudocercospora asiminae (Ellis & Morgan) U. Braun & Crous {O}

Pseudocercospora depazeoides (Desmazières) U. Braun & Crous

Pseudocercospora fraxinites (Ellis & Everhart) Y.L. Guo & X.J. Liu

Pseudocercospora macclatchieana (Saccardo & Sydow) U. Braun & Crous

Pseudocercospora nymphaeacea (Cooke & Ellis) Deighton

Pseudocercospora platanigena S.I.R. Videira & P.W. Crous

Pseudocercospora pycnidioides (Chupp) U. Braun & Crous

Pseudocercospora sabbatiae (Ellis & Everhart) U. Braun & Crous

Pseudocercospora salicina (Ellis & Everhart) Deighton

Pseudocercospora sordida (Saccardo) Deighton

Pseudocercosporella bakeri (Sydow & P. Sydow) Deighton

Pseudoclitocybe cyathiformis (Bulliard) Singer {C}

Pseudofistulina radicata (Schweinitz) Burdsall

Pseudohydnum gelatinosum (Scopoli) P. Karsten {C}

Pseudoinonotus dryadeus (Persoon) T. Wagner & M. Fischer {C}

Pseudolachnea hispidula (Schrader) B. Sutton

Pseudomarasmius straminipes (Peck) R.H. Petersen

Pseudomassaria polystigma (Ellis & Everhart) Arx {O}

Pseudombrophila hepatica (Batsch) Brummelen

Pseudomerulius aureus (Fries) Jülich

Pseudomicromyces juglandis (Berenger) T. Kijpornyongpan & Aime

Pseudonectria buxi (DeCandolle) K.A. Seifert, Gräfenhan & Schroers {!, C}

A collection of mine on *Buxus sempervivens* from the Ohio State University campus (MU 000297141) is identified as this species.

Pseudopeziza medicaginis (Libert) Saccardo

Pseudopeziza meliloti Sydow

Pseudopeziza trifolii (Bivona-Bernardi) Fuckel

Pseudoplectania nigrella (Persoon) Fuckel

Pseudosagedia aenea (Wallroth) Hafellner & Kalb {L}

Pseudosagedia cestrensis (E. Michener) R.C. Harris {L}

Pseudosagedia chlorotica (Acharius) Hafellner & Kalb {L}

Pseudosagedia guentheri (Flotow) Hafellner & Kalb {L}

Pseudosagedia isidiata (R.C. Harris) R.C. Harris {L}

Pseudosperma rimosum (Bulliard) Matheny & Esteve-Raventós

Pseudosperma umbrinellum (Bresadola) Matheny & Esteve-Raventós

Pseudostegia nubilosa Bubák {O}

Pseudotomentella humicola M.J. Larsen {!, C}

A collection of mine from Chadwick Arboretum in Columbus (MO#341009) is identified as this species.

Pseudotomentella nigra (Höhn & Litschauer) Svrček

Pseudotomentella umbrina (Fries) M.J. Larsen

Pseudotricholoma umbrosum (A.H. Smith & M.B. Walters) Sánchez-García & Matheny

Pseuderovalsella modonia (Tulasne & C. Tulasne) Kobayashi

Psilocybe atrobrunnea (Lasch) Gillet

Psilocybe caerulipes (Peck) Saccardo {C}

Some Ohio collections identified as this species may represent *P. ovoideocystidiata* instead.

Psilocybe ovoideocystidiata Guzmán & Gaines {H, C}

Several collections of this species collected by D. Molter from 2006 are present at XAL.

These collections are not accessible at MyCoPortal (Allen, Gartz and Molter 2009). A collection of mine from Franklin County (MU 000296908) is also identified as this species. This is a common species in Ohio along floodplains in the Spring and it is likely that some Ohio collections identified as *P. caeruleipes* represent this species instead.

Psiloglonium clavisporum (Seaver) E.W.A. Boehm, C.L. Schoch & Spatafora

Psiloglonium lineare (Fries) Petrak

Psiloglonium simulans (W.R. Gerard) E.W.A. Boehm, C.L. Schoch & Spatafora

Psilolechia lucida (Acharius) M. Choisy {L}

Psilopezia nummularia Berkeley {O}

Psora decipiens (Hedwig) Hoffmann {L}

Psora pseudorussellii Timdal {L}

Psora rubiformis (Wahlenberg ex Acharius) Hooker {L}

Psora russellii (Tuckerman) A. Schneider {L}

Psoroglaena dictyospora (Orange) H. Harada {L}

Psorotrichia schaeferi (A. Massalongo) Arnold {L}

Pterula multifida E.P. Fries ex Fries

Pterula penicellata Berkeley

Pterula plumosa (Schweinitz) Fries

Puccinia amphigena Dietel

Puccinia andropogonis Schweinitz {C}

Puccinia andropogonis var. *pustulata* (M.A. Curtis) Arthur

Puccinia anemones-virginianae Schweinitz

Puccinia angustata Peck

Puccinia antirrhini Dietel & Holway

Puccinia argentata (Schultz) G. Winter

Puccinia asparagi DeCandolle

Puccinia asterum (Schweinitz) F. Kern

Puccinia bolleyana Saccardo

Puccinia brachypodii G.H. Otth

Puccinia brachypodii var. *poae-nemoralis* (G.H. Otth) Cummins & H.C. Greene

Puccinia calcitrapae DeCandolle

Puccinia canaliculata Arthur

Puccinia caricina DeCandolle

Puccinia caricis var. *grossulariata* Arthur

Puccinia caricis-asteris Arthur

Puccinia chrysanthemi Roze

Puccinia circaeae Persoon

Puccinia cnici H. Martius

Puccinia cnici-oleracei Persoon ex Desmazières

Puccinia columbiensis Ellis & Everhart

Puccinia conocephalii Seymour

Puccinia convolvuli (Persoon) Castagne

Puccinia coronata Corda {C}

Puccinia cyani Passerini

Puccinia cyperi Arthur

Puccinia dentariae (Albertini & Schweinitz) Fuckel

Puccinia diffiformis Kunze

Puccinia dioicae Magnus

Puccinia dioicae var. *extensicola* (Plowright) D.M. Henderson

Puccinia eatoniae Arthur

Puccinia eleocharidis Arthur

Puccinia elymi Westendorp

Puccinia emaculata Schweinitz

Puccinia erigeniae (Orton) Arthur

Puccinia extensicola var. *asteris* (Thümén) Arthur

Puccinia extensicola var. *erigerontis* Arthur

Puccinia extensicola var. *oenatherae* (Montagne) Arthur

Puccinia flosculosorum Röhling

Puccinia glechomatis DeCandolle

Puccinia graminis Persoon

Puccinia helianthi Schweinitz

Puccinia helianthi-mollis H.S. Jackson

Puccinia heterospora Berkeley & M.A. Curtis

Puccinia heucherae (Schweinitz) Dietel

Puccinia hieracii (Röhling) H. Martius

Puccinia hordei G.H. Otth

Puccinia hydnoidea (Berkeley & M.A. Curtis) Arthur

Puccinia hydrophylli Peck & Clinton

Puccinia hyssopi Schweinitz

Puccinia impatientis-elymi Arthur

Puccinia iridis Wallroth

Puccinia jussiaeae Spegazzini

Puccinia lagenophorae Cooke {!, C}

A collection of mine on *Senecio vulgaris* from Columbus (MU 000296737) is identified as this species.

Puccinia lapsanae (Schultz) Fuckel

Puccinia malvacearum Bertero ex Montagne

Puccinia mariae-wilsoniae Clinton {C}

Puccinia marylandica Lindroth

Puccinia menthae Persoon

Puccinia minutissima Arthur

Puccinia monardae J.W. Baxter

Puccinia myosotidis Tranzschel

Puccinia myrrhis Schweinitz

Puccinia obliqua Berkeley & M.A. Curtis

Puccinia obscura J. Schröter

Puccinia obtecta Peck

Puccinia orbicula Peck & G.P. Clinton

Puccinia paradoxapoda Spegazzini

Puccinia peridermiospora (Ellis & Tracy) Arthur

Puccinia phragmitis (Schumacher) Körnicke

Puccinia pimpinellae (F. Strauss) Martius

Puccinia poarum E. Nielsen

Puccinia podophylli Schweinitz

Puccinia polygoni-amphibii Persoon

Puccinia polygoni-amphibii var. *persicariae* Arthur

Puccinia punctata Link

Puccinia recondita Roberge ex Desmazières

Puccinia ruelliae Lagerheim

Puccinia sambuci (Schweinitz) Arthur

Puccinia saniculae Greville

Puccinia schedonnardi Kellerman & Swingle

Puccinia seymeriae Burrill

Puccinia silphii Schweinitz

Puccinia smilacis Schweinitz

Puccinia sorghi Schweinitz

Puccinia striiformis Westendorp

Puccinia suaveolens (Persoon) Rostrup

Puccinia tanaceti DeCandolle

Puccinia tenuis Burrill

Puccinia thompsonii H.H. Hume

Puccinia tiarella Peck

Puccinia tumidipes Peck

Puccinia uniporula Orton

Puccinia vagans (DeCandolle) Arthur

As *Puccinia gayophyti* (Arthur 1934).

Puccinia vernoniae Cooke

Puccinia vilfae Arthur & Holway

Puccinia violae DeCandolle {C}

Puccinia windsoriae Schweinitz

Puccinia xanthii Schweinitz

Pucciniastrum agrimoniae (Ditel) Tranzschel

Pucciniastrum americanum (Farlow) Arthur

Pucciniastrum epilobii G.H. Otth

Pucciniastrum guttatum (J. Schröter) Hylander, Jørstad & Nannfeldt

Pucciniastrum hydrangeae (Magnus) Arthur

Pulveroboletus curtisii (Berkeley) Singer

Pulveroboletus ravenelii (Berkeley & M.A. Curtis) Murrill

Pulvinula carbonaria (Fuckel) Boudier

Pulvinula cinnabarinata (Fuckel) Boudier

Pulvinula convexella (P. Karsten) Pfister

Punctelia appalachensis (W.L. Culberson) Krog {L}

Punctelia bolliana (Müller Arg.) Krog {L}

Punctelia borreri (Smith) Krog {L}

Punctelia caseana Lendemer & Hodkinson {L}

Punctelia missouriensis G. Wilhelm & Ladd {L}

Punctelia perreticulata (Räsänen) G. Wilhelm & Ladd {L}

Punctelia punctilla (Hale) Krog {L}

Punctelia rudentata (Acharius) Krog {L}

Punctelia subflava (Taylor) Elix & J. Johnston {L}

Punctelia subrudecta (Nylander) Krog {L}

Punctularia strigosozonata (Schweinitz) P.H.B. Talbot

Pycnothelia papillaria (Ehrhart) L.M. Dufour {L}

Pyrenidium aggregatum Knudsen & Kocourková

Pyrenodesmia variabilis (Persoon) A. Massalongo {L}

Pyrenomyxa invocans Morgan {O}

Pyrenopeziza dilutella (Fries) Gminder

Pyrenophora catenaria (Drechsler) Rossman & K.D. Hyde

Pyrenophora chaetomioides Spegazzini

Pyrenophora dictyoides A.R. Paul & Parbery

Pyrenophora lolii Dovaston

Pyrenophora poae (Baudyš) Y. Marín & P.W. Crous

Pyrenophora teres Drechsler

Pyrenopsis lecideella Fink ex J. Hedrick {O, L}

Pyrenopsis phaeococca (Tuckerman) Tuckerman {L}

Pyrenula chlorospila (Nylander) Arnold {L}

Pyrenula confoederata R.C. Harris {L}

Pyrenula cruenta (Montagne) Vainio {L}

Pyrenula dermatodes (Borrer) Schaerer {L}

Pyrenula glabrata (Acharius) A. Massalongo {L}

Pyrenula laevigata (Persoon) Arnold {L}

Pyrenula mamillana (Acharius) Trevisan {L}

Pyrenula nitida (Weigel) Acharius {L}

Pyrenula pseudobufonia (Rehm) R.C. Harris {L}

Pyrenula punctella (Nylander) Trevisan {L}

Pyrenula sexlocularis (Nylander) Müller Arg. {L}

Pyrenula subelliptica (Tuckerman) R.C. Harris {L}

Pyronema omphalodes (Bulliard) Fuckel

Pyxine caesiopruinosa (Tuckerman) Imshaug {L}

Pyxine sorediata (Acharius) Montagne {L}

Pyxine subcinerea Stirton {L}

Racodium rupestre Persoon {L}

Raduliporus aneirinus (Sommerfelt) Spirin & Zmitrovich

Radulodon casearius (Morgan) Ryvarden {O}

Radulomyces confluens (Fries) M.P. Christiansen {C}

Radulomyces copelandii (Patouillard) Hjortstam & Spooner

Radulomyces molaris (Chaillet ex Fries) M.P. Christiansen

Ramalina americana Hale {L}

Ramalina calicaris (Linnaeus) Röhling {L}

Ramalina complanata (Swartz) Acharius {L}

Ramalina fastigiata (Persoon) Acharius {L}

Ramalina fraxinea (Linnaeus) Acharius {L}

Ramalina intermedia Delise ex Nylander {L}

Ramalina labiosorediata A. Gasparyan, H.J.M. Sipman & R. Lücking {L}

Ramalina pollinaria (Westring) Acharius {L}

Ramaria apiculata (Fries) Donk

Ramaria aurea (Schaeffer) Quélet

Ramaria aureofulva Corner

Ramaria botrytis (Persoon) Ricken

Ramaria concolor (Corner) R.H. Petersen

Ramaria fennica (P. Karsten) Ricken {C}

Ramaria flava (Schaeffer) Quélet

Ramaria formosa (Persoon) Quélet

Ramaria holorubella (G.F. Atkinson) Corner {O}

Ramaria obtusissima (Peck) Corner

Ramaria pallida (Schaeffer) Ricken

Ramaria rubella (Schaeffer) R.H. Petersen

Ramaria secunda (Berkeley) Corner

Ramaria spinulosa (Persoon) Quélet

Ramaria stricta (Persoon) Quélet {C}

Ramaricium albo-ochraceum (Bresadola) Jülich

Ramaricium polyporoideum (Berkeley & M.A. Curtis) Ginns

Ramariopsis crocea (Persoon) Corner {C, S}

Ramariopsis kunzei (Fries) Corner

Ramboldia russula (Acharius) Kalb, Lumbsch & Elix {L}

Ramularia ajugae (Niessl) Saccardo

Ramularia albomaculata Peck

Ramularia amorphae Ying X. Wang & Z.Y. Zhang

Ramularia armoraciae Fuckel

Ramularia celastri Peck

Ramularia endophylla Verkley & U. Braun

Ramularia geranii Fuckel

Ramularia grevilleana (Oudemans) Jørstad

Ramularia heraclei (Oudemans) Saccardo

Ramularia impatiensis Peck

Ramularia inaequale (Preuss) U. Braun

Ramularia lamii var. *minor* U. Braun

Ramularia mimuli Ellis & Kellerman {O}

Ramularia rhabdospora (Berkeley & Broome) Nannfeldt

Ramularia rubella (Bonorden) Nannfeldt

Ramularia urticae Cesati

Ramularia variabilis Fuckel

Rectipilus davidii (D.A. Reid) Agerer {!, C, S}

A collection of mine from Highbanks Metro Park (MU 000292846) is identified as this species. An ITS sequence was obtained for this collection. A BLAST search on this sequence supported placement of this collection in *Rectipilus* but other sequenced collections identified as *R. davidii* were lacking in GenBank.

Rectipilus fasciculatus (Persoon) Agerer

Rectipilus sulphureus (Saccardo & Ellis) W.B. Cooke

Resinicium bicolor (Albertini & Schweinitz) Parmasto

Resinomycena rhododendri (Peck) Redhead & Singer {C}

Resupinatus alboniger (Patouillard) Singer {!, C}

A collection of mine from Highbank Metro Park (MU 000297086) is identified as this species.

Resupinatus applicatus (Batsch) Gray

Resupinatus atropellitus (Peck) Murrill

Resupinatus cupuliformis (Berkeley & Ravenel) J.V. McDonald & Thorn

Resupinatus dealbatus (Berkeley) Singer {O}

Resupinatus griseopallidus (Weinmann) Knudsen & Elborne

Resupinatus niger (Schweinitz) Murrill

Resupinatus poriaeformis (Persoon) Thorn, Moncalvo & Redhead

Resupinatus trichotis (Persoon) Singer {!, C}

A collection by Jason C. Slot from Pataskala (MU 000297119) was examined of mine and identified as this species.

Retiboletus griseus (Frost) Manfr. Binder & Bresinsky {C}

Retiboletus ornatipes (Peck) Manfr. Binder & Bresinsky

Retiboletus retipes (Berkeley & M.A. Curtis) Manfr. Binder & Bresinsky

Rhabdospora rufa (Preuss) Saccardo

Rhamphospora nympheae D.D. Cunningham

Rhinotrichum oblongisporum Preuss

Rhizocarpon eupetraeum (Nylander) Arnold {L}

Rhizocarpon grande (Flörke ex Flotow) Arnold {L}

Rhizocarpon hochstetteri (Körber) Vainio {L}

Rhizocarpon ignobile Th. Fries {L}

Rhizocarpon infernulum (Nylander) Lyngé {L}

Rhizocarpon infernulum f. *sylvaticum* Fryday {L}

Rhizocarpon lavatum (Fries) Hazslinszky {L}

Rhizocarpon petraeum (Wulfen) A. Massalongo {L}

Rhizocarpon reductum Th. Fries {L}

Rhizocarpon subgeminatum Eitner {L}

Rhizocarpon vernicomoidicum Fink {O, L}

Rhizochaete filamentosa (Berkeley & M.A. Curtis) Greslebin, Nakasone & Rajchenberg

Rhizochaete radicata (Hennings) Greslebin, Nakasone & Rajchenberg {H}

A W. B. Cooke collection (K 61554) at K is identified as this species (Kew Mycology Collection 2020).

Rhizochaete sulphurina (P. Karsten) K.H. Larsson

Rhizoclostratum globosum H.E. Petersen

Rhizoctonia ochracea (Massee) Oberwinkler, R. Bauer, Garnica & R. Kirschner

Rhizocybe pruinosa (P. Kummer) Vizzini, G. Moreno & P. Alvarado {H}

An I. G. Lea collection at K (K 205009) is identified as this species (Kew Mycology Collection 2020).

Rhizodiscina lignyota (Fries) Hafellner

Rhizomarasmius pyrrhocephalus (Berkeley) R.H. Petersen {C,#}

This is a very common species among hardwood leaf litter year-round. An ITS sequence was obtained for a collection by Crystal Davidson from Pierce Township in Clermont County (MO#377854) identified as this species. A BLAST search for this sequence supports its identification as *R. pyrrhocephalus*.

Rhizophydium brooksianum Longcore

Rhizoplaca subdiscrepans (Nylander) R. Santesson {L}

Rhizopogon evadens A.H. Smith

Rhizopogon roseolus (Corda) Th. Fries

Rhizopogon villosulus Zeller

Rhizopus arrhizus A. Fischer

Rhizopus stolonifer (Ehrenberg) Vuillemin

Rhodocollybia butyracea (Bulliard) Lennox

Rhodocollybia maculata (Albertini & Schweinitz) Singer

Rhodocollybia maculata var. *scorzonerea* (Fries) Lennox

Rhodocybe parilis (Fries) Singer

Rhodofomes cajanderi (P. Karsten) B.K. Cui, M.L. Han & Y.C. Dai

Rhodofomes roseus (Albertini & Schweinitz) Kotlaba & Pouzar

Rhodonia placenta (Fries) Niemelä, K.H. Larsson & Schigel

Rhodotus palmatus (Bulliard) Maire

The true *R. palmatus* may not occur in North America (Stephen Russell pers. comm.). If this is the case, the eastern North American species would require a new combination. *Lentinula reticeps* may represent this taxon and could be combined in *Rhodotus* (Bigelow 1986).

Rhopalogaster transversarius (Bosc) J.R. Johnston

Rhymbocarpus neglectus (Vainio) Diederich & Etayo {L}

Rhytidhysteron rufulum (Sprengel) Spegazzini {C, S}

Rhytisma acerinum (Persoon) Fries {C}

While *R. acerinum* does occur in Ohio, many Ohio collections identified as *R. acerinum* are likely to be *R. americanum* or *R. punctatum* instead (Hudler, Jensen-Tracy, and Banik 1998; Beug, Bessette and Bessette 2013).

Rhytisma americanum Hudler & Banik {!, C}

Three collections of mine (MU 000296731, MU 000296733 and MU 000296800) are identified as this species. This is a very common leaf parasite on *Acer saccharinum* in Ohio. While the true *R. acerinum* does occur in Ohio, most Ohio collections identified as *R. acerinum* likely represent *R. americanum* instead (Hudler, Jensen-Tracy, and Banik 1998; Beug, Bessette and Bessette 2013).

Rhytisma andromedae (Persoon) Fries

Rhytisma concavum Ellis & Kellerman {O}

Rhytisma decolorans Fries

Rhytisma prini (Schweinitz) Fries {!, C, S, *}

A collection of mine from Browns Lake Bog (MO#374157) is identified as this species.

An ITS sequence was obtained for this collection but other collections identified as *R.*

prini were lacking in GenBank.

Rhytisma punctatum (Persoon) Fries {C}

Rhytisma salicinum (Persoon) Fries

Ricasolia amplissima (Scopoli) De Notaris {L}

Ricasolia quercizans (Michaux) Stizenberger {L}

Ricasolia virens (Withering) H.H. Blom, Tønsberg {L}

Rickenella fibula (Bulliard) Raithelhuber {C}

Rigidoporus populinus (Schumacher) Pouzar {C}

Rigidoporus ulmarius (Sowerby) Imazeki

Rimbachia neckerae (Fries) Redhead {!, C, S}

A collection by Crystal Davidson from Cincinnati (MO#368341) was examined of mine and identified as this species. An ITS sequence was obtained for this collection but ITS sequences for other collections identified as *R. neckerae* were lacking in GenBank.

Rimularia badioatra (Krempelhuber) Hertel & Rambold {L}

Rinodina arenaria (Hepp) Th. Fries {L}

Rinodina ascociscana (Tuckerman) Tuckerman {L}

Rinodina atrocinerea (Fries) Körber {L}

Rinodina buckii Sheard {L}

Rinodina bullata Sheard & Lendemer {L}

Rinodina exigua (Acharius) Gray {L}

Rinodina freyi H. Magnusson {L}

Rinodina kentuckyensis Fink ex J. Hedrick {L}

Rinodina maculans (Krempelhuber) Müller Arg. {L}

Rinodina moziana (Nylander) Zahlbrückner {L}

Rinodina oxydata (A. Massalongo) A. Massalongo {L}

Rinodina pachysperma H. Magnusson {L}

Rinodina papillata H. Magnusson {L}

Rinodina siouxiana J.W. Sheard {L}

Rinodina sophodes (Acharius) A. Massalongo {L}

Rinodina subpariata (Nylander) Zahlbrückner {L}

Rinodina tephraaspis (Tuckerman) Herre {L}

Roesleria subterranea (Weinmann) Redhead

Ropalospora chlorantha (Tuckerman) S. Ekman {L}

Ropalospora viridis (Tønsberg) Tønsberg {L}

Roridomyces roridus (Fries) Rexer {!, C}

A collection of mine from Geneva State Park (MO#207831) is identified as this species.

Rosellinia anthostomoides Berlese

Rosellinia aquila (Fries) De Notaris

Rosellinia confertissima Ellis & Everhart {O}

Rosellinia corticium (Schweinitz) Saccardo {C}

Rosellinia hyalospora Theissen {!, C}

A collection of mine form the Denison Biological Reserve (MU 000292852) is identified as this species. An attempt to obtain an ITS sequence from this collection was unsuccessful.

Rosellinia subcompressa Ellis & Everhart

This species may belong in *Coniochaeta* but lacks a combination in that genus (Petrak 1992).

Rosellinia subiculata (Schweinitz) Saccardo {C}

Rosisphaerella rosicola (Passerini) U. Braun, C. Nakashima, Videira & Crous

Rubroboletus rhodosanguineus (Both) Kuan Zhao & Zhu L. Yang {!, C}

Three collections of mine are identified as this species: MO#260751 and MO#260748 in the herbarium of Michael Kuo, and MU 000296823. This is a fairly common and distinctive bolete in grassy areas under *Quercus rubra* and likely other oaks in the Summer. Some Ohio collections identified as other red-pored bolete species may also represent this species.

Rufoplaca arenaria (Persoon) Arup, Søchting & Frödén {L}

Rufoplaca oxfordensis (Fink ex J. Hedrick) Arup, Søchting & Frödén {O, L}

Rusavskia elegans (Link) S.Y. Kondratyuk & Kärnefelt {L}

Russula adusta (Persoon) Fries

Russula aeruginea Lindblad

Russula alachuana Murrill

Russula albida Peck

Russula alutacea (Persoon) Fries

Russula amygdaloides Kauffman

Russula atropurpurea Peck

Russula ballouii Peck {!, C}

A collection of mine from Delaware State Park (MU 000296748) is identified as this species.

Russula blanda Burlingham

Russula brevipes Peck

Russula brevipes var. *acrior* Shaffer {!, C}

A collection of mine from Delaware State Park (MU 000296747) is identified as this taxon.

Russula brunneola Burlingham

Russula chamaeleontina (Lasch) Fries

Russula claroflava Grove

Russula compacta Frost {C}

Russula crustosa Peck

Ohio collections identified as *R. crustosa* may include *R. parvovirescens* and several underscribed species in *Russula* subsect. *Virescentiae* (Buyck, Mitchell and Parrent 2006).

Russula cyanoxantha (Schaeffer) Fries

Russula decolorans (Fries) Fries

Russula dissimulans Shaffer

Russula earlei Peck {!, C}

Three collections of mine (MU 000297102, MO#260052 and MO#260052) are identified as this species.

Russula eccentrica Peck {C}

Russula emetica (Schaeffer) Persoon

Russula flavidula Frost {C}

Russula flocculosa Burlingham {O}

Russula foetens Persoon

Russula fragilis Fries

Russula granulata (Peck) Peck {C, S}

Russula integra (Linnaeus) Fries

Russula lilacea Quélet

Russula lutea (Hudson) Gray

Russula magnifica Peck

May be a synonym of *R. polyphylla* (Adamčík, Jančovičová and Buyck 2018).

Russula mariae Peck {C}

Russula michiganensis Shaffer {!, C}

Three collections of mine (MU 000296762, MO#374383 and MO#253417) are identified as this species.

Russula nigrescentipes Peck

Russula nigricans Fries

Russula nitida (Persoon) Fries

Russula ochraleucoides Kauffmann

Russula ochrophylla Peck

Russula paludosa Britzelmayr

Russula peckii Singer

Russula pectinata Fries

This may be a strictly European species, but this is not yet certain due in part to confusion over the identification of that species in Europe. Ohio collections identified as this species may include *R. pectinatoides* and several unnamed species in *Russula* subsect. *Foetentinae* (Melera *et al.* 2017).

Russula pectinatoides Peck

Russula puellaris Fries

Russula pulverulenta Peck {C}

Russula purpurina Quélet & Schulzer

Ohio collections identified as *R. purpurina* may include collection of *R. purpurina* *sensu* Peck, which is *R. peckii* (Adamčík and Buyck 2012).

Russula pusilla Peck

Russula redolens Burlingham

Russula risigallina (Batsch) Saccardo

Russula rosea Persoon

Russula roseipes Secretan ex Bresadola

Russula rubescens Beardslee

Russula sanguinea (Bulliard) Fries

Russula sordida Peck

Russula sororia (Fries) Romell

Russula subfoetens W.G. Smith

Russula subsordida Peck

Russula subvelutina Peck

Russula uncialis Peck

Russula variata Banning

Russula velutipes Velenovský

Russula vinacea Burlingham {!, C}

A collection of mine from Shafer Park in Westerville (MO#303416) is identified as this species.

Russula vinoso Lindblad

Russula virescens (Schaeffer) Fries

Ohio collections identified as *R. virescens* may include *R. parvovirescens* and several underscribed species in *Russula* subsect. *Virescentiae* (Buyck, Mitchell and Parrent 2006).

Rutola graminis (Desmazières ex Fries) Crane & Schoknecht

Rutstroemia nebulosa (Cooke) Kauffman & Kanouse

Rutstroemia petiolorum (Roberge ex Desmazières) W.L. White

Ruzenia spermoides (Hoffmann) O. Hilber ex A.N. Miller & Huhndorf

Saccharomyces cerevisiae Meyen ex E.C. Hansen

Saccobolus minimoides Prokhorov {!, C}

A collection of mine from Tuttle Park in Columbus (MO#423523) is identified as this species.

Sagaranella tylicolor (Fries) V. Hofstetter, Clémenton, Moncalvo & Redhead

Sarcodon imbricatus (Linnaeus) P. Karsten

Sarcodontia crocea (Schweinitz) Kotlaba {C}

Sarcogyne canadensis (H. Magnusson) K. Knudsen, J.N. Adams, Kocourkova & Y. Wang {L}

Sarcogyne clavus (DeCandolle) Krempelhuber {L}

Sarcogyne hypophaea (Nylander) Arnold {L}

Sarcogyne regularis Körber {L}

Sarcogyne similis H. Magnusson {L}

Sarcomyxa serotina (Persoon) V. Papp {C}

Sarcoscypha austriaca (Beck ex Saccardo) Boudier {C, S}

Sarcoscypha dudleyi (Peck) Baral

Sarcoscypha occidentalis (Schweinitz) Saccardo {O,C}

The oldest fungal collection from Ohio that could be located was the holotype collection of this species (FH barcode-00601556) collected by L. D. von Schweinitz from modern Tuscarawas County in 1823 (Schweinitz 1832, Stuckey 1966). A collection of mine (MO#411962) is pictured in Fig. 1F.

Sarcosphaera coronaria (Jacquin) J. Schröter

Sarea difformis (Fries) Fries

Sarea resinae (Fries) Kuntze

Sarocladium strictum (W. Gams) Summerbell

Schizophyllum amplum (Léveillé) Nakasone

Schizophyllum commune Fries {C}

Schizothecium fimicola Corda

Schizoxylon alboatrum Rehm

Sclerococcum parasiticum (Flörke) Ertz & Diederich

Sclerococcum pertusariicola (Willey ex Tuckerman) Ertz & Diederich

Sclerococcum stygium (Berkeley & M.A. Curtis) Olariaga, Teres, J.M. Martín, M. Prieto & Baral

Scleroderma albhidum Patouillard & Trabut

Scleroderma areolatum Ehrenberg {C}

Scleroderma bovista Fries

Scleroderma cepa Persoon

Scleroderma citrinum Persoon

Scleroderma flavidum Ellis & Everhart

Scleroderma hypogaeum Zeller

Scleroderma nitidum Berkeley

Scleroderma polyrhizum (J.F. Gmelin) Persoon

Scleroderma verrucosum (Bulliard) Persoon

Scleroderris rubra Morgan {O}

Sclerophomella verbascicola (Schweinitz) Höhnle

Sclerophora nivea Tibell {L}

Sclerophora pallida (Persoon) Y.J. Yao & Spooner {L}

Sclerotinia sclerotiorum (Libert) de Bary

Sclerotium rolfsii Saccardo {C, S}

This species Has been classified in both *Athelia* for its teleomorph and *Sclerotium* (= *Typhula*) for the anamorph but belongs in neither genus (Olariaga *et al.* 2020). Its proper placement is within the Amylocorticiales, and it may requirie a combination in a novel genus (Song *et al.* 2016).

Scoliciosporum chlorococcum (Graewe ex Stenhammar) Vezda {L}

Scoliciosporum pensylvanicum R.C. Harris {L}

Scoliciosporum umbrinum (Acharius) Arnold {L}

Scopuloides hydnoides (Cooke & Massee) Hjortstam & Ryvarden

Scorias spongiosa (Schweinitz) Fries

Scotomyces subviolaceus (Peck) Jülich {!, C}

A collection of mine from Mohican State Park (MU 000297042) is identified as this species.

Scutellinia erinaceus (Schweinitz) Kuntze

Scutellinia hirta (Schumacher) Cooke

Scutellinia pennsylvanica (Seaver) Denison

Scutellinia scutellata (Linnaeus) Lambotte

Scutellinia setosa (Nees) Kuntze {C, S, *}

An ITS sequence was obtained for a collection of mine from Tuttle Park in Columbus (FLAS-F-65568) but other sequences identified as *S. setosa* were lacking in GenBank.

Scutellinia umbrorum (Fries) Lambotte {C}

Scutula circumspecta (Nylander ex Vainio) Kistenich, Timdal, Bendiksby & S. Ekman {L}

Scutula heeri (Hepp ex A. Massalongo) P. Karsten {L}

Scytinium dactylinum (Tuckerman) Otálora, P.M. Jørgensen & Wedin {L}

Scytinium fragrans (Smith) Otálora, P.M. Jørgensen & Wedin {L}

Scytinium juniperinum (Tuckerman) Otálora, P.M. Jørgensen & Wedin {L}

Scytinium lichenoides (Linnaeus) Otálora, P.M. Jørgensen & Wedin {L}

Scytinium subtile (Schrader) Otálora, P.M. Jørgensen & Wedin {L}

Scytinium tenuissimum (Dickson) Otálora, P.M. Jørgensen & Wedin {L}

Scytinostroma duriusculum (Berkeley & Broome) Donk

Scytinostroma portentosum (Berkeley & M.A. Curtis) Donk

Scytinostroma protrusum (Burt) Nakasone {!, C}

A collection of mine from Shafer Park in Westerville (MU 000296927) is identified as this species.

Seaverinia geranii (Seaver & W.T. Horne) Whetzel

Sebacina confusa R. Kirschner & Oberwinkler

Sebacina dendroidea (Berkeley & M.A. Curtis) Lloyd

Not a true *Sebacina*, but the proper generic placement of this species is uncertain (Ginns and Lefebvre 1993).

Sebacina epigaea (Berkeley & Broome) Neuhoff {!, C}

A collection of mine from Glen Echo Park in Columbus (MU 000296791) is identified as this species.

Sebacina incrassans (Persoon) Tulasne & C. Tulasne

Sebacina sparassoidea (Lloyd) P. Roberts {C}

Segestria lectissima Fries {L}

Selinia pulchra (G. Winter) Saccardo

Sepedonium ampullosporum Damon

This is a *Hypomyces* anamorph but lacks a combination in that genus (Sahr *et al.* 1999).

Sepedonium chalcipori Helfer

This is a *Hypomyces* anamorph but lacks a combination in that genus (Sahr *et al.* 1999).

Sepedonium subochraceum Berkeley & M.A. Curtis

This may be a *Hypomyces* anamorph given its placement in the anamorphic genus

Sepedonium (Sahr *et al.* 1999).

Septobasidium curtisii (Berkeley & Desmazières) Boedijn & B.A. Steinmann

Septobasidium pedicellatum (Schweinitz) Patouillard

Septocylindrium viride (Corda) Saccardo

Septoria aegopodii Desmazières ex J.J. Kickx

Septoria agrimoniae Roumeguère

Septoria ampelina Berkeley & M.A. Curtis

Septoria apiicola Spegazzini

Septoria asclepiadicola Ellis & Everhart

Septoria astericola Ellis & Everhart

Septoria atropurpurea Peck

Septoria brunellae Ellis & Holway

Septoria cacaliae Ellis & Kellerman

Septoria callistephi Gloyer

Septoria campanulae (Léveillé) Saccardo

Septoria caryae Ellis & Everhart

Septoria cirsii Niessl

Septoria consimilis Ellis & G. Martin

Septoria convolvuli Desmazières

Septoria cryptotaeniae Ellis & Rau

Septoria erigerontis Peck {O}

Septoria farfaricola Dearness

Septoria fraxinicola U. Braun

Septoria helianthi Ellis & Kellerman

Septoria humuli (Westendorp) Westendorp

Septoria irregularis Peck

Septoria lactucae Passerini

Septoria lepidiicola Ellis & G. Martin

Septoria leptostachyae Ellis & Kellerman {O}

Septoria littorea Saccardo

Septoria lobeliae Peck

Septoria lophanthi G. Winter {O}

Septoria lycopersici Spegazzini

Septoria malvicola Ellis & G. Martin

Septoria mimuli Ellis & Kellerman {O}

Septoria nabali Berkeley & M.A. Curtis

Septoria noli-tangere W.R. Gerard

Septoria oenotherae Westendorp

Septoria phlogina Bondartsev

Septoria phlogis Saccardo & Spegazzini

Septoria pileae Thümen

Septoria podophyllina Peck

Septoria polygonorum Desmazières

Septoria polymniae Ellis & Everhart

Septoria querceti Thümen

Septoria rhoina Berkeley & M.A. Curtis

Septoria rubi var. *pallida* Ellis & Holway

Septoria scrophulariae Peck {O}

Septoria solidaginicola Peck

Septoria sphaerelloides Ellis & Kellerman {O}

Septoria stachydis Roberge ex Desmazières

Septoria trillii Peck

Septoria unicolor G. Winter

Septoria urticae Roberge ex Desmazières

Septoria verbascicola Berkeley & M.A. Curtis

Septoria verbenaе Roberge ex Desmazières

Septoria violae-palustris Diedicke

Septoria viriditingens M.A. Curtis ex Peck {C}

Septoria wilsonii G.P. Clinton

Sepultariella semiimmersa (P. Karsten) Van Vooren, U. Lindemann & Healy

Serpula himantoides (Fries) P. Karsten

Serpula lacrymans (Wulfen) J. Schröter

Sidera lenis (P. Karsten) Miettinen {!, C}

A collection of mine from Mohican State Park (MO#354127) is identified as this species.

Sidera vulgaris (Fries) Miettinen

Sigmoideomyces dispiroides Thaxter

Simocybe centunculus (Fries) P. Karsten {C}

Simocybe haustellaris (Fries) Watling {!, C}

A collection of mine from Kelleys Island (MO#367608) is identified as this species.

Singerocybe adirondackensis (Peck) Zhu L. Yang & J. Qin

Sirosporium beaumontii (Saccardo) M.B. Ellis

Sirothecium fragile Morgan {O}

Sirothecium nigrum Morgan {O}

Sistotrema brinkmannii (Bresadola) J. Eriksson {C, S}

Sistotrema confluens Persoon

Sistotrema coroniferum (Höhn & Litschauer) D.P. Rogers & H.S. Jackson

Sistotrema coronilla (Höhn) Donk

Sistotrema heteronemum (J. Eriksson) Å. Strid {!, C}

A collection of mine from Zaleski State Forest (MO#415250) is identified as this species.

Sistotrema octosporum (J. Schröter ex Höhn & Litschauer) Hallenberg {!, C}

A collection of mine from Academy Park in Gahanna (MU 000297078) is identified as this species.

Sistotrema raduloides (P. Karsten) Donk

Sistotrema subtrigonospermum D.P. Rogers {!, C}

A collection of mine from Zaleski State Forest (MO#415150) is identified as this species.

Sistotremastrum sueicum Litschauer ex J. Eriksson

Skeletocutis amorpha (Fries) Kotlaba & Pouzar

Skeletocutis nivea (Junghuhn) Jean Keller

Skeletocutis odora (Peck ex Saccardo) Ginns

Skeletocutis semipileata (Peck) Miettinen & A. Korhonen

Skvortzovia furfuracea (Bresadola) G. Gruhn & Hallenberg

Skvortzovia furfurella (Bresadola) Bononi & Hjortstam

Sordaria fimicola (Roberge ex Desmazières) Cesati & De Notaris

Sowerbyella radiculata (Sowerby) Nannfeldt

Spadicoides obovata (Cooke & Ellis) S. Hughes

Sparassis americana R.H. Petersen {!, C}

A collection of mine from Zaleski State Forest (MO#423085) is identified as this species.

Ohio collections identified as the strictly European *S. crispa* likely represent this species as well (Hughes, Segovia and Petersen 2014).

Sparassis spathulata (Schweinitz) Fries

Spathularia rufa Nees

Sphaceloma plantaginis Jenkins & Bitancourt

Sphaceloma symphoricarpi Barrus & Horsfall

Sphacelotheca hydropiperis (Schumacher) de Bary

Sphaerellopsis filum (Bivona-Bernardi) B. Sutton

Sphaeria solidaginis Schwein.

This species may belong in *Darluca* (Greene 1949).

Sphaeridium miniatum Saccardo

Sphaerobolus stellatus Tode {C}

Sphaeropsis aristolochiae Dearnness & House {O}

Sphaeropsis caryae Cooke & Ellis

Sphaeropsis glandulosa Cooke

Sphaeropsis pericarpiae Peck

Sphaeropsis sapinea (Fries) Dyko & B. Sutton

Sphaeropsis sphaerelloides Ellis & Everhart {O}

Sphaerospora brunnea (Albertini & Schweinitz) Svrcek & Kubicka

Sphaerosporium lignatile Schweinitz {C, S}

Sphaerostilbella penicillioides (Corda) Rossman, L. Lombard & P.W. Crous {C, S, *}

An ITS sequence was obtained for a collection of mine from Madison Township in Perry County (MO#363800) identified as this species. Other sequences identified as *S. penicilloides* were lacking in GenBank.

Sphaerotheca castagniei Léveillé

Sphaerulina aceris (Libert) Verkley, Quaedvlieg & Crous

Sphaerulina cornicola (DeCandolle) Verkley, Quaedvlieg & Crous

Sphaerulina gei (Roberge ex Desmazières) Verkley, Quaedvlieg & Crous

Sphaerulina musiva (Peck) W. Quaedvlieg, G.J.M. Verkley & P.W. Crous

Sphaerulina quercicola (Desmazières) W. Quaedvlieg, G.J.M. Verkley & P.W. Crous

Sphaerulina rubi Demaree & Wilcox

Sphaerulina westendorpii Verkley, Quaedvlieg & P.W. Crous

Sphagnurus paluster (Peck) Redhead & V. Hofst.

Sphinctrina tigillaris Berkeley & Broome {L}

Sphinctrina turbinata (Persoon) De Notaris {L}

Splanchnonema monospermum (Peck) M.E. Barr

Splanchnonema sporadicum (Ellis & Everhart) M.E. Barr

Spongipellis delectans (Peck) Murrill {O}

Spongipellis pachyodon (Persoon) Kotlaba & Pouzar {C}

Spongipellis spumeus (Sowerby) Patouillard

Spongipellis unicolor (Schweinitz) Murrill

Spongiporus floriformis (Quélet) B.K. Cui, L.L. Shen & Y.C. Dai

Sporidesmium coronatum Fuckel

Sporidesmium multiforme R.F. Castañeda

Sporidesmium socium M.B. Ellis

Sporidesmium vagum Nees & T. Nees

Sporidesmium velutinum Cooke

Sporisorium ellisii (G. Winter) M. Piepenbring

Sporisorium montaniense (Ellis & Holway) Vánky

Sporisorium reilianum (J.G. Kühn) Langdon & Fullerton

Sporisorium sorghi Ehrenberg ex Link

Sporocystis condita Morgan {O}

Sporophagomyces chrysostomus (Berkeley & Broome) K. Pöldmaa & Samuels {C}

Sporormiella minima (Auerswald) S.I. Ahmed & Cain

Sporotrichum oligocarpum (Corda) Rabenhorst

Sporotrichum ruberrimum Fries

Sporotrichum tenue (Corda) Rabenhorst

Squamulea galactophylla (Tuckerman) Arup, Søchting & Frödén {L}

Squamulea parviloba (Wetmore) Arup, Søchting & Frödén {L}

Squamulea subsoluta (Nylander) Arup, Søchting & Frödén {L}

Stachybotrys chartarum (Ehrenberg) S. Hughes

Stachybotrys dichroa Grove

Stachylidium bicolor Link

Stachylidium olivaceum (Corda) Saccardo

Stagonospora arenaria (Saccardo) Saccardo

Stagonospora atriplicis (Westendorp) Lind

Stagonosporopsis cucurbitacearum (Fries) Aveskamp, Gruyter & Verkley

Stamnaria americana Massee & Morgan {O}

Stamnaria persoonii (Mougeot ex Persoon) Fuckel

Staphylotrichum coccosporum J.A. Meyer & Nicot

Staurothele areolata (Acharius) Lettau {L}

Staurothele fissa (Taylor) Zwackh {L}

Steccherinum collabens (Fries) Vesterholt

Steccherinum laeticolor (Berkeley & M.A. Curtis) Banker

Steccherinum morganii Banker {O}

This may represent a senior synonym of *S. subrawakense*.

Steccherinum nitidum (Persoon) Vesterholt {C}

Steccherinum ochraceum (Persoon ex J.F. Gmelin) Gray {C}

Steccherinum rhois (Schweinitz) Banker

Steccherinum robustius (J. Eriksson & S. Lundell) J. Eriksson {!, C}

A collection of mine from the Ohio State University campus (MO#314791) is identified as this species.

Steccherinum subrawakense Murrill {!, C, S, *}

Eleven collections of mine (PUL F26252, MO#262508, MO#262573, MO#260161, MO#279033, MO#293444, MO#302988, MO#294404, MO#302725 and MO#308126 and MO#392968) are identified as this species. This is a very common and distinctive species. Ohio collections identified as *S. rawakense* and *S. reniforme* may represent this species instead (V. Spirin pers. comm.). It is also possible that *S. morganii* represents a senior synonym of *S. subrawakense*. An ITS sequence was obtained for PUL F26252. A BLAST search supports placement of this species in *Metuloidea* rather than *Steccherinum sensu stricto*. Placement in *Metuloidea* is also consistent with the morphology of this species (Jülich and Stalpers 1980, Miettinen and Ryvarden 2016). Other sequences identified as *S. subrawakense* were lacking in GenBank. This group is in need of revision.

Steccherinum tenue Burdsall & Nakasone

Stegocintractia junci (Schweinitz) M. Piepenbring

Stegophora ulmea (Schweinitz) P. Sydow & Sydow

Steinia geophana (Nylander) Stein {L}

Stemphylium polymorphum (Corda) Bonorden

Stemphylium sarciniforme (Cavara) Wiltshire

Stemphylium vesicarium (Wallroth) E.G. Simmons

Stenocarpella maydis (Berkeley) B. Sutton

Stenocephalopsis subalutacea (Peck) Chamuris & C.J.K. Wang

Stenocybe pullatula (Acharius) Stein {L}

Stereocaulon dactylophyllum Flörke {L}

Stereocaulon paschale (Linnaeus) Hoffmann {L}

Stereocaulon saxatile H. Magnusson {L}

Stereopsis burtiana (Peck) D.A. Reid

Stereopsis hiscens (Berkeley & Ravenel) D.A. Reid

Stereum complicatum (Fries) Fries {C}

Stereum fasciatum (Schweinitz) Fries

Stereum gausapatum (Fries) Fries {C}

Stereum hirsutum (Willdenow) Persoon {C}

Stereum lobatum (Kunze ex Fries) Fries {C}

Stereum rugosum Persoon

Stereum sanguinolentum (Albertini & Schweinitz) Fries

Stereum striatum (Fries) Fries {C}

Stereum versicolor (Swartz) Fries

According to Ryvarden (2010), this is a tropical species. Ryvarden also considers *S. ostrea*, *S. fasciatum* and *S. lobatum* to be synonyms of this species. Delong-Duhon and Bagley (2020) found these to be distinct species based on ITS phylogeny and morphology. Welden (1971) considers *S. versicolor* to be a member of the *S. hirsutum* group that occurs in the Neotropics and southern North America. It is unclear whether this species is truly present in Ohio, but it is plausible.

Sterigmatobotrys rufa (Saccardo) Heuchert, U. Braun & Ertz*Sticta beauvoisii* Delise {L}*Sticta fuliginosa* (Dickson) Acharius {L}*Sticta weigelii* (Acharius) Vainio {L}*Stictis radiata* (Linnaeus) Persoon*Stictis sphaeroboloidea* Ellis*Stictis stellata* Wallroth {!, C}

A collection of mine from Columbus (MO#399249) is identified as this species.

Stictis urceolatum (Acharius) Gilenstam {L}*Stigmidium lendemeri* Kocourková & K. Knudsen*Stilbella aciculosa* (Ellis & Everhart) K.A. Seifert*Stilbella fimetaria* (Persoon) Lindau

Strangospora pinicola (A. Massalongo) Körber {L}

Streptothrix cinerea Morgan {O}

Strigula jamesii (Swinscow) R.C. Harris {L}

This species does not belong in *Strigula* sensu stricto and requires a combination in a new genus (Jiang *et al.* 2020).

Strigula stigmatella (Acharius) R.C. Harris {L}

Strobilomyces confusus Singer

Strobilomyces strobilaceus (Scopoli) Berkeley

Strobilurus albipilatus (Peck) V.L. Wells & Kempton

Strobilurus conigenoides (Ellis) Singer {!, C}

A collection of mine from Camp Asbury in Hiram (MO#302676) is identified as this species.

Stromatinia smilacinae (E.J. Durand) Whetzel

Stropharia aeruginosa (Curtis) Quélet

Stropharia coronilla (Bulliard) Quélet

Stropharia hardii G.F. Atkinson {O,C}

Stropharia pseudocyanea (Desmazières) Morgan

Stropharia rugosoannulata Farlow ex Murrill {C}

Strossmayeria alba (P. Crouan & H. Crouan) Iturriaga & Korf

Strossmayeria basitricha (Saccardo) Dennis

Subbaromyces splendens Hesseltine

Subulicystidium cochleum Punugu

Subulicystidium longisporum (Patouillard) Parmasto

Suillus acidus (Peck) Singer

Suillus americanus (Peck) Snell

Suillus brevipes (Peck) Kuntze

Suillus clintonianus (Peck) Kuntze {!, C}

A collection of mine from the James H. Barrow Field Station in Garrettsville (MO#257444) is identified as this species. This collection is in the herbarium of Michael Kuo. Ohio collections identified as the strictly European *S. grevillei* likely represent this species instead (Nguyen and Vellinga 2016).

Suillus collinitus (Fries) Kuntze

Suillus granulatus (Linnaeus) Roussel

Some Ohio collections identified as this species may represent *S. weaverae* instead (Nguyen and Vellinga 2016).

Suillus hirtellus (Peck) Kuntze

Suillus luteus (Linnaeus) Roussel

Suillus pinorigidus Snell & E.A. Dick

Possible synonym of *S. salmonicolor* (Both 1993, Nguyen and Vellinga 2016).

Suillus spectabilis (Peck) Kuntze

Suillus spraguei (Berk. & M.A. Curtis) Kuntze

Suillus subaureus (Peck) Snell

Sutorius eximius (Peck) Halling, Nuhn & Osmundson

Sydowia polyspora (Brefeld & Tavel) E. Müller

Sydowiella fenestrans (Duby) Petrak

Synchytrium aecidioides Lagerheim

Synchytrium fulgens J. Schröter

Synnemaspora aculeans (Schweinitz) X.L. Fan & J.D.P. Bezerra

Synthetospora electa Morgan {O}

Syspastospora parasitica (Tulasne) P.F. Cannon & D. Hawksworth

Syzygites megalocarpus Ehrenberg

Syzygospora mycetophila (Peck) Ginns

Taeniolella alta (Ehrenberg) S. Hughes

Taeniolina schimae Y.D. Zhang et X.G. Zhang {!, C}

A collection of mine from the Ohio State University campus (MO#401091) is identified as this species.

Takamatsuella circinata (Cooke & Peck) U. Braun & A. Shi

Tapesia cinerella Rehm

Tapesia discincola (Schweinitz) Saccardo

Tapesia fusca (Persoon) Fuckel

Tapesia mollisioides (Schweinitz) Saccardo

Taphrina caerulescens (Desmazières & Montagne) Tulasne

Taphrina communis (Sadebeck) Giesenhangen

Taphrina deformans (Berkeley) Tulasne {C}

Taphrina polystichi Mix

Taphrina pruni Tulasne

Taphrina sacchari Jenkins {O}

Taphrina tormentillae Rostrup

Taphrina ulmi (Fuckel) Johanson

Tapinella atrotomentosa (Batsch) Sutara

Tapinella panuoides (Fries) E.-J. Gilbert

Tarzetta catinus (Holmskjold) Korf & J.K. Rogers {#}

Tarzetta cupularis (Linnaeus) Lambotte {!, C}

A collection of mine from Columbus (FLAS-F-62608) is identified as this species.

Tatraea macrospora (Peck) Baral {C}

An ITS sequence was obtained for a Crystal Davidson collection from the Batavia Township Sports Complex (MO#382359). A BLAST search on this sequence supports the identification of this collection as *T. macrospora*.

Teichospora patellariooides Saccardo

Teichospora tuberculata Ellis & Everhart {O}

Telimena bicincta (E. Bommer & M. Rousseau) Theissen & Sydow

Teloschistes chrysophthalmus (Linnaeus) Beltramini {L}

Teloschistes lychneus (Acharius) Tuckerman {L}

Tephrocybe atrata (Fries) Donk

Tephrocybe murina (Batsch) M.M. Moser

Tephromela atra (Hudson) Hafellner {L}

Terana caerulea (Schrader ex Lamarck) Kuntze

Tetraploa ellisii Cooke

Tetrapyrgos nigripes (Fries) E. Horak

Thaxteriella pezizula (Berkeley & M.A. Curtis) Petrak

Thecaphora desmodii (Peck) Woronin

Thecaphora oxalidis (Ellis & Tracy) M. Lutz, R. Bauer & Piatek

Thekopsora minima (Arthur) Syd. & P. Syd.

Thelebolus lignicola Lloyd

Thelebolus stercoreus Tode

Thelenella brasiliensis (Müller Arg.) Vainio {L}

Thelephora albidobrunnea Schweinitz

Thelephora americana (Peck) Saccardo

Thelephora anthocephala (Bulliard) Fries {C}

Thelephora caryophyllea (Schaeffer) Persoon

Thelephora cervicornis Corner

Thelephora cuticularis Berkeley {O}

Thelephora intybacea Persoon

Thelephora multipartita Schweinitz {C}

Thelephora palmata (Scopoli) Fries

Thelephora penicillata (Persoon) Fries

Thelephora regularis Schweinitz

Thelephora spiculosa (Fries) Fries

Thelephora terrestris Ehrhart

Thelephora vialis Schweinitz

Thelidium fontigenum A. Massalongo {L}

Thelidium minutulum Körber {L}

Thelidium parvulum Arnold {L}

Thelidium pyrenophorum (Acharius) Körber {L}

Thelidium zwackhii (Hepp) A. Massalongo {L}

Thelocarpon laureri (Flotow) Nylander {L}

Thelocarpon prasinellum Nylander {L}

Thelotrema subtile Tuckerman {L}

Therrya pini (Albertini & Schweinitz) Höhnle

Thrombium epigaeum (Persoon) Wallroth {L}

Thyrea confusa Henssen {L}

Thyrea pulvinata (Schaerer) A. Massalongo {L}

Thyridaria minima (Ellis & Everhart) Wehmeyer

Thyronectria austroamericana (Spegazzini) Seeler

Thyronectria berolinensis (Saccardo) Seaver

Thyronectria chrysogramma Ellis & Everhart

Thyronectria virens Harkness {O}

Thyronectria zanthoxyli (Peck) Ellis & Everhart {!, C, S}

A collection of mine from the Ohio State University campus (MO#344305) is identified as this species. This collection is at WU. An ITS sequence was obtained from this collection and supports its identification as *T. zanthoxyli*.

Thyrostroma carpophilum (Léveillé) B. Sutton

Tilletia laevis J.G. Kühn

Tinctoporellus epimiltinus (Berkeley & Broome) Ryvarden

Tolypocladium capitatum (Holmskjold) Quandt, Kepler & Spatafora

Tolypocladium ophioglossoides (Ehrhart ex J.F. Gmelin) Quandt, Kepler & Spatafora {C}

Tomentella albomarginata (Bourdot & Galzin) M.P. Christiansen

Tomentella botryoides (Schweinitz) Bourdot & Galzin

Tomentella bryophila (Persoon) M.J. Larsen

Tomentella ferruginea (Persoon) Patouillard

Tomentella griseoumbrina Litschauer

Tomentella lapida (Persoon) Stalpers

Tomentella lateritia Patouillard

Tomentella olivascens (Berkeley & M.A. Curtis) Bourdot & Galzin

Tomentella pilosa (Burt) Bourdot & Galzin

Tomentella punicea (Albertini & Schweinitz) J. Schröter

Tomentella rubiginosa (Bresadola) Maire

Tomentella stuposa (Link) Stalpers

Tomentella umbrinospora M.J. Larsen

Tomentellopsis echinospora (Ellis) Hjortstam

Tomentellopsis zygodesmoides (Ellis) Hjortstam

Toninia populorum (A. Massalongo) Kistenich, Timdal, Bendiksby & S. Ekman

Torula abbreviata Corda

Torula composita Preuss

Torula fusca (Bonorden) Saccardo

Torula herbarum (Persoon) Link

Torula herbarum f. *quaternella* Saccardo

Torula tenuissima Corda

Trametes betulina (Linnaeus) Pilát

Trametes cinnabarina (Jacquin) Fries {C}

Trametes conchifer (Schweinitz) Pilát

Trametes hirsuta (Wulfen) Lloyd

Trametes lactinea (Berkeley) Saccardo {!, C}

A collection of mine from Columbus (MO#311158) is identified as this species. A collection by Darin Wiseman from Blue Ash (MO#381314) was examined of mine and also identified as this species.

Trametes ochracea (Persoon) Gilbertson & Ryvarden

Trametes pubescens (Schumacher) Pilát {C, S}

Trametes sanguinea (Linnaeus) Lloyd

Trametes suaveolens (Linnaeus) Fries {C}

Trametes versicolor (Linnaeus) Lloyd {C}

Trametopsis cervina (Schweinitz) Tomsovský

Tranzschelia anemones (Persoon) Nannfeldt

Tranzschelia arthurii Tranzschel & M.A. Litvinov

A W. B. Cooke collection identified as this species is present at PUL (Lopez-Franco and Hennen 1990) but without a corresponding record in MyCoPortal.

Tranzschelia pruni-spinosae (Persoon) Dietel

Trapelia coarctata (Turner ex Smith) M. Choisy {L}

Trapelia glebulosa (Smith) J.R. Laundon {L}

Trapelia placodioides Coppins & P. James {L}

Trapeliopsis flexuosa (Fries) Coppins & P. James {L}

Trapeliopsis granulosa (Hoffmann) Lumbsch {L}

Trapeliopsis viridescens (Schrader) Coppins & P. James {L}

Traponora varians (Acharius) J. Kalb & K. Kalb {L}

Trappea phillipsii (Harkness) Castellano

Trechispora araneosa (Höhnel & Litschauer) K.H. Larsson

Trechispora candidissima (Schweinitz) Bondartsev & Singer

Trechispora farinacea (Persoon) Liberta

Trechispora laevis K.H. Larsson {!, C}

A collection of mine from the Spruce Run Education Center in Galena (MO#314802) is identified as this species.

Trechispora mollusca (Persoon) Liberta

Trechispora regularis (Murrill) Liberta {!, C}

A collection of mine from Shafer Park in Westerville (MO#414464) is identified as this species.

Trematosphaeria nuclearia (De Notaris) Saccardo

Trematosphaeria pertusa (Persoon) Fuckel

Tremella candelariellae Diederich & Etayo

Tremella fuciformis Berkeley {!, C}

A collection of mine from the Waterloo Wildlife Area (MU 000296780) is identified as this species.

Tremella mesenterica Retzius {C}

Tremellodendron cladonia (Schweinitz) Burt

Tremellodendron merismatooides (Schweinitz) Burt

Tremellodendron schweinitzii G.F. Atkinson {C}

Tremellodendron tenax (Schweinitz) Burt {C, S}

An ITS sequence was obtained for a collection of mine from Highbanks Metro Park (MO#323213). A BLAST search on this sequence supported placement in *Tremellodendron*, but sequences for other collections identified as *T. tenax* were lacking in GenBank.

Tremellodropsis semivestita (Berkeley & M.A. Curtis) R.H. Petersen

Tremellodropsis tuberosa (Greville) D.A. Crawford

Tremelloscypha amesii (Lloyd) Oberwinkler, Garnica & K. Riess

Triangularia backusii L.H. Huang

Triblidium ohiense Ellis & Everhart {O}

Trichaptum abietinum (Persoon ex J.F. Gmelin) Ryvarden

Trichaptum biforme (Fries) Ryvarden {C}

Trichaptum fuscoviolaceum (Ehrenberg) Ryvarden

Trichobolus zukalii (Heimerl) Kimbrough {!, C}

A collection of mine from Tuttle Park in Columbus (MO#423393) is identified as this species.

Trichocladium asperum Harz

Trichoderma alutaceum Jaklitsch {C}

Trichoderma aureoviride Rifai

Trichoderma brevipes (Montagne) G.J. Samuels

Trichoderma chromospermum P. Chaverri & Samuels

Trichoderma citrinoviride Bissett

Trichoderma citrinum (Pers. : Fr.) Jaklitsch, W. Gams & Voglmayr

Trichoderma decipiens (Jaklitsch, K. Pöldmaa & Samuels) Jaklitsch & Voglmayr

A K. Poldmaa and G. J. Samuels collection (TAA 169648) from Fort Ancient identified as this species is present at the Estonian University of Life Sciences. A split of this collection also apparently exists in the U.S. National Fungus Collections (BPI 744529) but this collection is not accessible at MyCoPortal (Jaklitsch, Poldmaa and Samuels 2008).

Trichoderma gelatinosum P. Chaverri & Samuels

Trichoderma hamatum (Bonorden) Bainier

Trichoderma harzianum Rifai

Trichoderma koningii Oudemans

Trichoderma latizonatum (Peck) G.J. Samuels {O}

Trichoderma ochroleucum (Berk. & Ravenel) Jaklitsch & Voglmayr

Trichoderma patella (Cooke & Peck) Jaklitsch & Voglmayr

Trichoderma polysporum (Link) Rifai

Trichoderma sulphureum (Schwein.) Jaklitsch & Voglmayr {C}

Trichoderma viride Persoon

Trichoglossum farlowii (Cooke) E.J. Durand

Trichoglossum hirsutum (Persoon) Boudier {C}

Trichoglossum octopartitum Mains {!, C}

A collection of mine from Blacklick Woods Metro Park (MU 000296848) is identified as this species.

Trichoglossum velutipes (Peck) E.J. Durand

Tricholoma acerbum (Bulliard) Quélet

Some Ohio collections identified as *T. acerbum* may represent *T. roseoacerbum* instead (Bessette *et al.* 2013).

Tricholoma albobrunneum (Persoon) P. Kummer

Tricholoma album (Schaeffer) P. Kummer

Tricholoma atrosquamosum Saccardo

Tricholoma aurantium (Schaeffer) Ricken

Tricholoma caligatum (Viviani) Ricken

Tricholoma columbetta (Fries) P. Kummer

Tricholoma equestre (Linnaeus) P. Kummer

Tricholoma focale (Fries) Ricken

Tricholoma fulvum (Fries) Bigeard & H. Guillemin {C}

Tricholoma fumidellum (Peck) Saccardo

Poorly known species (Bessette *et al.* 2013). This species may not represent a true

Tricholoma.

Tricholoma fumosoluteum (Peck) Saccardo {H}

A C. G. Lloyd collection (F277125) at S is identified as this species.

Tricholoma grande Peck

Poorly known species (Bessette *et al.* 2013). The description of this species is consistent with placement in *Tricholoma sensu stricto* (Peck 1891).

Tricholoma imbricatum (Fries) P. Kummer

Tricholoma lascivum (Fries) Gillet

Tricholoma myomyces (Persoon) J.E. Lange

Tricholoma odorum Peck

Tricholoma piperatum Peck

Poorly known species (Bessette *et al.* 2013).

Tricholoma platyphyllum (Murrill) Murrill

May be a synonym of *T. inamoenum* (Bessette *et al.* 2013).

Tricholoma portentosum (Fries) Quélet

Tricholoma resplendens (Fries) P. Karsten

Tricholoma saponaceum (Fries) P. Kummer

Tricholoma sculpturatum (Fries) Quélet {!, C, S}

A collection of mine from Blendon Woods Metro Park (MO#280427) is identified as this species. An ITS sequence was obtained from this collection and a BLAST search on this sequence supports its identification as *T. sculpturatum*.

Tricholoma sejunctum (Sowerby) Quélet

Tricholoma sulphureum (Bulliard) P. Kummer {B}

Kellerman (1906j) cites a M. E. Hard collection identified as this species. This collection may be at OS, which is not accessible on MyCoPortal.

Tricholoma terreum (Schaeffer) P. Kummer {C}

Tricholoma terriferum Peck

May be a synonym of *T. pessundatum* (Bessette *et al.* 2013).

Tricholoma trentonense (Peck) Saccardo

Poorly known species (Bessette *et al.* 2013).

Tricholoma ustale (Fries) P. Kummer

Tricholomopsis decora (Fries) Singer

Tricholomopsis flammula Métrod ex Holec {!, C}

A collection of mine from the Kilbourne Run Sports Park in Columbus (MO#208708) is identified as this species.

Tricholomopsis rutilans (Schaeffer) Singer {C}

Tricholomopsis sulphureoides (Peck) Singer

Trichopeziza mollissima Fuckel {!, C}

A collection of mine from Columbus (MO#397005) is identified as this species.

Trichophaea albospadicea (Greville) Boudier

Trichophaea livida (Schumach.) Boud.

Trichophyton ajelloi (Vanbreuseghem) Ajello

Trichothecium roseum (Persoon) Link {C}

Trimmatostroma salicis Corda

Trimmatothelopsis dispersa (H. Magnusson) K. Knudsen & Lendemer

Trullula melanochlora (Desmazières) Höhnel

Truncospora ohiensis (Berkeley) Pilát {O,C}

Tryblidaria cucurbitaria (Cooke) M.E. Barr

Tryblidaria fenestrata (Cooke & Peck) M.E. Barr

Tubakia dryina (Saccardo) B. Sutton

Tubaria confragosa (Fries) Harmaja

Tubaria dispersa (Berkeley & Broome) Singer

Tubaria furfuracea (Persoon) Gillet

Tuber californicum Harkness

Tuber texense Heimsch

Tubeufia cerea (Berkeley & M.A. Curtis) Höhnel

Tubulicrinis accedens (Bourdotted & Galzin) Donk

Tubulicrinis glebulosus (Fries) Donk

Tubulicrinis subulatus (Bourdotted & Galzin) Donk

Tuckermanopsis americana (Sprengel) Hale {L}

Tuckermanopsis ciliaris (Acharius) Gyelnik {L}

Tulasnella allantospora Wakefield & A. Pearson

Tulasnella aurantiaca (Bonorden) J. Mack & Seifert

Tulasnella bifrons Bourdot & Galzin

Tulasnella pruinosa Bourdot & Galzin

Tulasnella violea (Quélet) Bourdot & Galzin {C}

Tulostoma americanum Lloyd

Tulostoma australianum Lloyd

Tulostoma campestre Morgan {O}

Tulostoma lloydii Bresadola {O}

Tulostoma montanum Patouillard

Tulostoma punctatum Peck

Tulostoma punciculosum Long & S. Ahmad

Tulostoma simulans Lloyd

Tulostoma squamosum (J.F. Gmelin) Persoon

Tulostoma striatum G. Cunningham

Tulostoma subfuscum V.S. White

Tulostoma volvulatum I.G. Borshchov

Turbinellus floccosus (Schwein.) Earle ex Giachini & Castellano {C}

Turbinellus kauffmanii (A.H. Smith) Giachini

Tylopilus alboater (Schweinitz) Murrill {C}

Tylopilus atratus Both {!, C}

A collection of mine from Mohican State Park (MO#261110) is identified as this species.

This collection is in the herbarium of Michael Kuo.

Tylopilus atronicotianus Both {!, C}

A collection of mine from Delaware State Park (MO#266096) is identified as this species. This collection is in the herbarium of Michael Kuo.

Tylopilus badiceps (Peck) A.H. Smith & Thiers {C}

Tylopilus cyaneotinctus A.H. Smith & Thiers

Possible synonym of *Porphyrellus sordidus* (Both 1993).

Tylopilus felleus (Bulliard) P. Karsten {C}

Tylopilus ferrugineus (Frost) Singer {C}

Tylopilus indecisus (Peck) Murrill {C}

Tylopilus intermedius A.H. Smith & Thiers

Tylopilus plumbeoviolaceus (Snell & E.A. Dick) Snell & E.A. Dick {C}

Tylopilus rubrobrunneus Mazzer & A.H. Smith {C}

Tylopilus subpunctipes (Peck) A.H. Smith & Thiers

Tylopilus umbrosus (G.F. Atkinson) A.H. Smith & Thiers

Tympanis confusa Nylander

Tympanis conspersa (Fries) Fries

Typhula phacorrhiza (Reichard) Fries

Typhula pusilla (Persoon) J. Schröter

Typhula setipes (Greville) Berthier

Typhula spathulata (Corner) Berthier

Typhula variabilis Riess

As *Typhula lactea* (Remsberg 1940).

Tyromyces chioneus (Fries) P. Karsten {C}

Tyromyces fumidiceps G.F. Atkinson

Tyromyces galactinus (Berkeley) J. Lowe {O}

Umbelopsis isabellina (Oudemans) W. Gams

Umbelopsis vinacea (Dixon-Stewart) Arx

Umbilicaria mammulata (Acharius) Tuckerman {L}

Umbilicaria vellea (Linnaeus) Acharius {L}

Urceolella papillaris (Bulliard) Boudier

Uredinopsis americana Sydow & P. Sydow {C}

Uredo gaurina (Peck) Saccardo

Urnula craterium (Schweinitz) Fries

Urocystis anemones (Persoon) Rabenhorst

Urocystis carcinodes (Berkeley & M.A. Curtis) A.A. Fisch. Waldh.

Urocystis colchici (Schlechtendal) Rabenhorst

Urocystis erythronii G.P. Clinton

Urocystis occulta (Wallroth) Rabenhorst ex Fuckel

Urocystis syncocca (L.A. Kirchner) B. Lindeberg

Uromyces andropogonis Tracy

Uromyces ari-triphylli (Schweinitz) Seeler {C}

Uromyces asclepiadis Cooke

Uromyces bicolor Ellis

Uromyces burrillii Lagerh.

Uromyces caladii Farlow

Uromyces coloradensis Ellis & Everhart

Uromyces dianthi (Persoon) Niessl

Uromyces euphorbiae Cooke & Peck {O}

Uromyces fallens (Arthur) Bartholomew

Uromyces geranii (DeCandolle) Léveillé

Uromyces hedysari-paniculati (Schweinitz) Farlow

Uromyces houstoniatus J. Sheldon

Uromyces hyperici (Schweinitz) M.A. Curtis

Uromyces junci (Desmazières) Tulasne & C. Tulasne

Uromyces junci-effusi P. Sydow & Sydow

Uromyces lespedezae-procumbentis (Schweinitz) Lagerheim

Uromyces lineolatus (Desmazières) J. Schröter

Uromyces pedatatus Sheldon

Uromyces phaseoli (Persoon) G. Winter

Uromyces phaseoli var. *strophostylis* Arthur

Uromyces plumbarius Peck

Uromyces polygoni-avicularis (Persoon) P. Karsten

Uromyces rhynchosporae Ellis

Uromyces silphii Arthur

Uromyces sparganii Cooke & Peck

Uromyces striatus J. Schröter

Uromyces toxicodendri Berkeley & Ravenel

As *Pileolaria brevipes* (Arthur 1934).

Uromyces trifolii (R. Hedwig) Léveillé

Uromyces trifolii-repentis Liro

Uromyces viciae-fabae J. Schröter

Uropyxis agrimoniae Arthur

Usnea angulata Acharius {L}

Usnea barbata var. *hirta* (Linnaeus) Fries {L}

Usnea cavernosa Tuckerman {L}

Usnea ceratina Acharius {L}

Usnea dasaea Stirton {L}

Usnea dasopoga (Acharius) Nylander {L}

Usnea florida (Linnaeus) Weber ex F.H. Wiggers {L}

Usnea glabrata (Acharius) Vainio {L}

Usnea hirta (Linnaeus) Weber ex F.H. Wiggers {L}

Usnea mutabilis Stirton {L}

Usnea pennsylvanica Motyka {L}

Usnea rubicunda Stirton {L}

Usnea strigosa (Acharius) Eaton {L}

Usnea subfloridana Stirton {L}

Usnea subfuscata Stirton {L}

Usnea subscabrosa Nylander ex Motyka {L}

Usnocetraria oakesiana (Tuckerman) M.J. Lai & J.C. Wei {L}

Ustilago avenae (Persoon) Rostrup

Ustilago bullata Berkeley

Ustilago crameri Körnicke

Ustilago hordei (Persoon) Lagerheim

Ustilago maydis (DeCandolle) Corda {C}

Ustilago nuda (C.N. Jensen) Rostrup

Ustilago residua G.P. Clinton

Ustilago sphaerogena Burrill

Ustilago striiformis (Westendorp) Niessl

Ustilago syntherismae (Schweinitz) Peck

Ustilago tritici C. Bauhin

Ustilago utriculosa (Nees) Gray

Vaginatispora fuckelii (Sacc.) Thambugala, Wanasinghe, Kaz. Tanaka & K.D. Hyde

Vahliella leucophaea (Vahl) P.M. Jørgensen {L}

Valsa acclinis Schweinitz

Valsa ambiens subsp. *leucostomoides* (Peck) Spielman

Valsa ceratophora Tulasne & C. Tulasne

Valsa pustulata Auerswald

Valsaria anthostomoides Saccardo

As *Valsa moroides*. Possible synonym of *Pseudovalsaria ferruginea* (Untereiner 2018).

Valsaria insitiva (Tode) Cesati & De Notaris

Valsaria insitiva var. *coluteae* Saccardo

Valsella melastoma (Fries) Saccardo

Valsella nigroannulata Fuckel

Vanderbylia fraxinea (Bulliard) D.A. Reid

Vanderbylia robbiniphila (Murrill) B.K. Cui & Y.C. Dai {C}

Vankya heufleri (Fuckel) Ershad

Vararia investiens (Schweinitz) P. Karsten {C}

Varicellaria velata (Turner) I. Schmitt & Lumbsch {L}

Venturia acerina Plakidas ex M.E. Barr

Venturia inaequalis (Cooke) G. Winter

Venturia macularis (Fries) E. Müller & Arx

Venturia orbicula (Schweinitz) Cooke & Peck

Venturia potentillae (Fries) Cooke

Venturia saliciperda J. Nüesch

Vermicularia compacta Cooke & Ellis

Verpa bohemica (Krombholz) J. Schröter

Verpa conica (O.F. Müller) Swartz

Verpa digitaliformis Persoon

Verpa krombholzii Corda

Verrucaria bryoictona (Th. Fries) Orange {L}

Verrucaria calkinsiana Servít {L}

Verrucaria cernaensis Zschacke {L}

Verrucaria dolosa Hepp {L}

Verrucaria elaeina Borrer {L}

Verrucaria fayettensis Servít {L}

Verrucaria glaucina Acharius {L}

Verrucaria margacea (Wahlenberg) Wahlenberg {L}

Verrucaria muralis Acharius {L}

Verrucaria nigrescens Persoon {L}

Verrucaria nigrescentoidea Fink ex J. Hedrick {L}

Verrucaria praetermissa (Trevisan) Anzi {L}

Verrucaria rupestris Schrader {L}

Verrucaria sordida Servít {L}

Verrucaria sphinctrina Acharius {L}

Verrucaria subelliptica Tuckerman {L}

Verrucaria sublobulata Eitner ex Servít {L}

Verrucaria trabalis Nylander {L}

Verrucaria umbrinula Nylander {L}

Verrucaria viridula (Schrader) Acharius {L}

Vezdaea leprosa (P. James) Vezda {L}

Vezdaea schuyleriana Lendemer {L}

Vibrissea truncorum (Albertini & Schweinitz) Fries {!, C}

A collection of mine from Zaleski State Forest (MO#414427) is identified as this species.

Villophora microphyllina (Tuckerman) S.Y. Kondratyuk {L}

Violella fucata (Stirton) T. Spribille {L}

Virgaria nigra (Link) Nees

Viridothelium virens (Tuck. ex Michener) Lücking, M.P. Nelsen & Aptroot {L}

Volvariella bombycina (Schaeffer) Singer {C}

Volvariella hypopithys (Fries) M.M. Moser {H}

An H. C. Beardslee collection (F276688) at S is identified as this species.

Volvariella pusilla (Persoon) Singer {C}

Volvariella taylorii (Berkeley & Broome) Singer {!, C}

A collection of mine from Columbus (MO#338774) is identified as this species.

Volvariella villosavolva (Lloyd) Singer {O, B}

C. G. Lloyd's type collection from Ohio is apparently missing (Shaffer 1957).

Volvariella volvacea (Bulliard) Singer

Volvopluteus gloiocephalus (DeCandolle) Vizzini, Contu & Justo

Vulpicida viridis (Schweinitz) J.-E. Mattsson & M.J. Lai {L}

Whalleya microplaca (Berkeley & M.A. Curtis) J.D. Rogers, Y.M. Ju & F. San Martín

Willeya diffractella (Nylander) Müller Arg. {L}

Wolfina aurantiopsis (Ellis) Seaver ex Eckblad

Wolfiporia cocos (F.A. Wolf) Ryvarden & Gilbertson

Wolfiporia dilatohypha Ryvarden & Gilbertson

Wynnea americana Thaxter

Xanthocarpia crenulatella (Nylander) Frödén, Arup & Søchting {L}

Xanthocarpia feracissima (H. Magnusson) Frödén, Arup & Søchting {L}

Xanthoconium affine (Peck) Singer {C}

Xanthoconium affine var. *maculosus* (Peck) Singer

Xanthoconium purpureum Snell & E.A. Dick {C}

Xanthomendoza fulva (Hoffmann) Søchting, Kärnefelt & S.Y. Kondratyuk {L}

Xanthomendoza hasseana (Räsänen) Søchting, Kärnefelt & S.Y. Kondr. {L}

Xanthomendoza mendozae (Räsänen) S.Y. Kondratyuk & Kärnefelt {L}

Xanthomendoza ulophyllodes (Räsänen) Søchting, Kärnefelt & S.Y. Kondratyuk {L}

Xanthomendoza weberi (S.Y. Kondratyuk & Kärnefelt) L. Lindblom {L}

Xanthoparmelia angustiphylla (Gyelnik) Hale {L}

Xanthoparmelia atrobarbatica (Elix) O. Blanco, A. Crespo, Elix, D. Hawksworth & Lumbsch
{L}

Xanthoparmelia conspersa (Ehrhart ex Acharius) Hale {L}

Xanthoparmelia cumberlandia (Gyelnik) Hale {L}

Xanthoparmelia hypomelaena (Hale) Hale {L}

Xanthoparmelia isidiosa (Müller Arg.) Elix & J. Johnston {L}

Xanthoparmelia plittii (Gyelnik) Hale {L}

Xanthoparmelia stenophylla (Acharius) Ahti & D. Hawksworth {L}

Xanthoparmelia subramigera (Gyelnik) Hale {L}

Xanthoparmelia taractica (Krempelhuber) Hale {L}

Xanthoparmelia tasmanica (Hooker f. & Taylor) Hale {L}

Xanthoparmelia verrucigera (Nylander) Hale {L}

Xanthoporia radiata (Sowerby) Tura, Zmitrovich, Wasser, Raats & Nevo

Xanthoria parietina (Linnaeus) Beltramini {L}

Xanthoria substellaris (Acharius) Vainio {L}

Xenasmatella alnicola (Bourdot & Galzin) K.H. Larsson & L. Ryvarden

Xenasmatella vaga (Fries) Stalpers {C}

Xenodidymella catariae (Cooke & Ellis) Q. Chen & L. Cai {H}

A W. A. Kellerman collection (F263389) at S is identified as this species.

Xenosporium berkeleyi (M.A. Curtis) Pirozynski

Xenosporium larvale (Morgan) Pirozynski {O}

Xerocomellus truncatus (Singer, Snell & E.A. Dick) Klofac

Xerocomus illudens (Peck) Singer {C}

Xerocomus morrisii (Peck) M. Zang

Xerocomus subtomentosus (Linnaeus) Quélet

Xeromphalina campanella (Batsch) Kühner & Maire

Xeromphalina kauffmanii A.H. Smith

Xeromphalina tenuipes (Schweinitz) A.H. Smith {C}

Xylaria acuta Peck {C}

Xylaria apiculata Cooke

Xylaria bulbosa (Persoon) Berkeley & Broome

Xylaria corniformis (Fries) Fries {C, S}

Xylaria cornu-damae (Schweinitz) Berkeley

Xylaria cubensis (Montagne) Fries

Xylaria filiformis (Albertini & Schweinitz) Fries

Xylaria hypoxylon (Linnaeus) Greville {C}

Xylaria longipes Nitschke

Xylaria mali Fromme {C, S}

Xylaria morganii Lloyd {O, B, H}

The type collection is at K but is not accessible through the Kew online database (Kew Mycology Collection 2020). Some Ohio collections identified as *X. conocephala* may also represent this species (Ju, Hsieh, and Dominick 2016).

Xylaria multiplex (Kunze ex Fries) Fries

Xylaria muscula Lloyd

Xylaria oxyacanthalae Tulasne & C. Tulasne

Xylaria polymorpha (Persoon) Greville {C}

Xylaria tentaculata Ravenel ex Berkeley {C}

Xylaria vasconica J. Fournier & M. Stadler {!, C}

A collection of mine from Mohican State Park (MO#350114) is identified as this species.

An ITS sequence was obtained for this collection and a BLAST search on this sequence supported its identification as *X. vasconica*. This species is very similar to *X. hypoxylon* and it is likely that some Ohio collections identified as that species represent *X. vasconica* instead (Fournier *et al.* 2011).

Xyleborus sporodochifer R.C. Harris & Ladd {L}

Xylobolus frustulatus (Persoon) Boidin {C}

Xylobolus subpileatus (Berkeley & M.A. Curtis) Boidin

Xylodon asperus (Fries) Hjortstam & Ryvarden

Xylodon borealis (Kotiranta & Saarenoksa) Hjortstam & Ryvarden {!, C}

A collection of mine from Chadwick Arboretum in Columbus (MO#401552) is identified as this species.

Xylodon brevisetus (P. Karsten) Hjortstam & Ryvarden

Xylodon candidissimus (Berkeley & M.A. Curtis) Hjortstam & Ryvarden

Xylodon flavigiporus (Berkeley & M.A. Curtis ex Cooke) Riebesehl & E. Langer {!, C}

Two collection of mine (MU 000296955 and MO#394022) are identified as this species. It is possible that some Ohio collections identified as *X. paradoxus* represent this species as well.

Xylodon laurentianus J. Fernández-López, Telleria, M. Dueñas & M.P. Martín {!, C, S}

A collection of mine from Hinckley Reservation (MO#377828) is identified as this species. An ITS sequence was obtained for this collection and a BLAST search on this sequence supports its identification as *X laurentianus*. It is possible that some Ohio collections identified as *X. paradoxus* represent this species as well.

Xylodon paradoxus (Schrader) Chevallier

Xylodon rimosissimus (Peck) Hjortstam & Ryvarden

Xylodon spathulatus (Schrader) Kuntze

Xylohypha nigrescens (Persoon) E.W. Mason As *Torula tenera* (Hughes and Sugiyama 1972).

Xylopsora friesii (Acharius) Bendiksby & Timdal {L}

Yuchengia narymica (Pilát) B.K. Cui, C.L. Zhao & Steffen {!, C}

A collection of mine from Zaleski State Park (MO#414973) is identified as this species.

Zopfiella ebriosa Guarro, P.F. Cannon & Aa

Zwackhia viridis (Acharius) Poetsch & Schiedermayr {L}

Zymoseptoria passerinii (Saccardo) Quaedvlieg & Crous

Zymoseptoria tritici (Desmazières) Quaedvlieg & Crous

APPENDIX B – Dubious and Excluded Taxa

The following taxa are those that were removed from the overall checklist of Ohio fungi (APPENDIX A). These taxa were removed for several reasons. These are *nomina dubia*, species known to have previously been erroneously reported from eastern North America, species that have otherwise only been collected from very distant localities (*e.g.*, Australia), or taxa where the basis of their being reported from Ohio is otherwise in doubt.

Taxa are listed in alphabetical order. Notes following the taxon names and author information indicate the reasons for the removal of these taxa from the overall checklist. Herbarium codes are after Index Herbariorum (Thiers 2020).

Acanthonitschkea tristis (J. Kickx f.) Nannfeldt

An A. P. Morgan collection (ISC0368943) is identified as *Sphaeria tristis* Persoon, which is the basionym for this species. However, this name was applied to several different pyrenomycete species before Nannfeldt's (1975) type study. Morgan's collection is best regarded as an indeterminate pyrenomycete pending restudy.

Agaricus bambusigenus Berkeley & M.A. Curtis

Cuban species. Probably not present in the USA (Kerrigan 2016). Ohio collections may represent several other *Agaricus* species.

Agaricus moelleri Wasser

European species name erroneously used for North American collections of several different *Agaricus* species (Kerrigan 2016).

Agaricus villaticus Brondeau

Dubious European species (Kerrigan 2016). It is unclear which *Agaricus* species the Ohio collection (CUP-A-031365) identified as this species represents.

Amanita caesarea (Scopoli) Persoon

Strictly European species. This name has been misapplied to several species in of *Amanita* sect. *Caesareae* in eastern North America including *A. arkansana*, *A. jacksonii*, *A. banningiana* Tulloss *nom. prov.* and *A. cahokiana* Tulloss & Sanchez-Ramírez *nom. prov.* (Bunyard and Justace 2020, Tulloss 2020). Ohio collections identified as *A. caesarea* likely represent several of the aforementioned species.

Amanita excelsa (Fries) Bertillon

European species name applied to several different *Amanita* species in eastern North America (Tulloss 2020).

Amanita gemmata (Fries) Bertillon

European species mistakenly reported from eastern North America (Bunyard and Justice 2020). Ohio collections likely represent other *Amanita* species.

Amanita mappa (Batsch) Fries

European species. Ohio collections reported under this name and its synonym *A. citrina* likely represent *A. lavendula* (Bunyard and Justice 2020, Tulloss 2020).

Amanita muscaria (Linnaeus) Lamarck

The true *A. muscaria* is a strictly European taxon. Ohio collections identified as *A. muscaria* likely represent the eastern North America *A. muscaria* var. *guessowii* instead (Bunyard and Justice 2020).

Amanita muscaria var. *formosa* Persoon

Strictly European variety. Ohio collections likely represent *A. muscaria* var. *guessowii* (Tulloss 2020).

Amanita pantherina (DeCandolle) Krombholz

Strictly European species. Ohio collections likely represent *A. multisquamosa* or *A. velatipes* (Tulloss 2020).

Amanita phalloides (Fries) Link

European species that has been introduced to the East and West Coasts of North America. It has recently spread to Pennsylvania and New York state, but Ohio collections predate this recent spread and likely represent other species in *Amanita* sect. *Phalloideae* (Wolfe et al. 2010, Tulloss 2020).

Amanita rubescens Persoon

European species. Ohio collections likely represent one of the several North American rubescent species of *Amanita* sect. *Validae*, some of which are undescribed (Tulloss 2020).

Amanita solitaria (Bulliard) Mérat

European species. Ohio collections likely represent various species in *Amanita* subgen. *Lepidella* (Tulloss 2020).

Amanita strobiliformis (Paulet ex Vittadini) Bertillon

European species name applied to a number of different North American *Amanita* species (Tulloss 2020). It is unclear which of these the Ohio collections represent.

Amanita umbrinolutea (Secretan ex Gillet) Bataille

European species. The Ohio collection (MICH 73463) likely represents a different species in *Amanita* sect. *Vaginatae* (Tulloss 2020).

Amanita verna (Bulliard) Lamarck

European species name misapplied to several North American species in *Amanita* sect. *Phalloideae* (Tulloss 2020).

Amanita virosa Bertillon

European species name misapplied to several North American species in *Amanita* sect. *Phalloideae* (Tulloss 2020).

Artomyces turgidus (Léveillé) Jülich

Australasian species. Ohio collections likely represent *A. pyxidata* (Lickey, Hughes, and Petersen 2003).

Astraeus hygrometricus (Persoon) Morgan

European species. Ohio collections may represent *A. morganii* or *A. smithii* (Phosri *et al.* 2007; Phosri, Martín and Watling 2013).

Auricularia auricula-judae (Bulliard) J. Schröter

European species. Ohio collections likely represent *A. angiospermum*, *A. americana* or other *Auricularia* species (Wu *et al.* 2015).

Auricularia cornea Ehrenberg

Tropical species. The Ohio collection (ISC-F-0084175) may represent *A. fuscosuccinea*, *A. nigricans*, or even *A. angiospermum* (Looney, Birkebak and Matheny 2013).

Boletus crassus Massee

Dubious European species. Ohio collection (BPI 780441) likely represent *B. edulis* or a related species (Both 1993).

Boletus erythropus Persoon

Dubious European species. *Boletus erythropus* *sensu auct.* is *Neoboletus luridiformis*, but it is not yet clear whether this species truly occurs in North America (Gelardi *et al.* 2019). Ohio collections identified as this species may represent *Neoboletus* species or species in other red-pored bolete genera.

Boletus modestus Peck

Peck's type represents a mix of several different species. It is unclear what Ohio collections identified as this species represent (Both 1993).

Boletus sullivantii Berkeley & Montagne

Collected by W.S. Sullivant from the Columbus area. A poorly known red-pored bolete species. Likely not a true *Boletus*. The type may be missing (Both 1993).

Bondarzewia mesenterica (Schaeffer) Kreisel

European species. Ohio collections likely represent *B. berkeleyi* (Chen *et al.* 2016).

Bresadolia craterella (Berkeley & M.A. Curtis) Audet

Neotropical species. May not occur in North America. Ohio reports may represent an unnamed species in *Polyporus sensu stricto* (Motato-Vásquez *et al.* 2018, Ryvarden 2016).

Calycella crocina (Berkeley & M.A. Curtis) Dennis

Poorly known species very similar to *Bisporella citrina* (Dennis 1961). Ohio collections may represent that species.

Camillea fossulata (Montagne) Læssøe, J.D. Rogers & Whalley

An A. P. Morgan collection (ISC0368351) is identified as this species. This is apparently a strictly neotropical species (Læssøe, Rogers, and Whalley 1989). The Morgan collection may represent a different *Camillea* species.

Cantharellus cibarius Fries

A species restricted to northern Europe. Ohio collections identified as this species likely represent various native *Cantharellus* species (Buyck and Hofstetter 2011; Foltz, Perez and Volk 2013; Leacock *et al.* 2016; Olariaga *et al.* 2017).

Ceriporia rhodella (Fries) Cooke

Dubious European species name applied to various *Ceriporia purpurea*-like species in North America (Spirin *et al.* 2016).

Ceriporia rubescens (Petch) Ryvarden

A species only known with certainty from Sri Lanka. Ohio collections identified as this species may represent other *Ceriporia* or even *Hapalopilus* species (Ryvarden 2015).

Chroogomphus rutilus (Schaeffer) O.K. Miller

Eurasian species. Ohio collections may represent *C. ochraceus* or other *Chroogomphus* species (Miller 2003, Scambler *et al.* 2018).

Cladosporium fuscum Link

Holotype is a sterile basidiomycete crust. Unclear what Ohio collections identified as this species represent (Bensch *et al.* 2012).

Cladosporium pericarpium Cooke

Dubious species. The A. P. Morgan collection (ISC-F-0081723) identified as this species could represent any number of other hyphomycete species (Bensch *et al.* 2012).

Clavaria berkeleyi Montagne

Likely synonym of *Ramaria stricta* (Corner 1950).

Claviceps microcephala (Wallroth) Tulasne

Dubious species. *Claviceps microcephala* *sensu auct.* may represent *C. arundinis*, and it is possible the Ohio collections represent that or some other *Claviceps* species (Pažoutová *et al.* 2015).

Clitocybe cartilaginea (Bulliard ex Persoon) Bresadola

Dubious European species. Ohio collections likely represent *Lyophyllum* species (Bigelow 1985).

Clitocybe columbana (Montagne) Saccardo

Probable junior synonym of *Omphalotus illudens* (Murrill 1915a, Bigelow 1982b, Bigelow 1985).

Clitocybe erubescens (Montagne) Saccardo

Type is poorly preserved. Unclear what genus or species this represents (Murrill 1915a).

Coleosporium asterum (Dietel) Sydow & P. Sydow

Asian species. Ohio collections likely represent *C. delicatulum*, *C. montanum* and/or *C. solidaginis* (McTaggart and Aime 2018).

Collybia estensis Morgan

Poorly described species. May be a synonym of *Gymnopus dryophilus*, *Marasmius strictipes* or some other similar species (Stover 1912, Murrill 1916).

Conocybe tortipes (Montagne) Watling

Dubious species. Type is in very poor condition. Likely not a true *Conocybe* (Hausknecht and Krisai-Greilhuber 2004).

Corticium centrifugum (Léveillé) Bresadola

Illegitimate name. Name preoccupied by *Corticium centrifugum* (Weinmann) Fries. North American collections represent various corticioid species in *Athelia*, *Leptosporomyces* and *Fibulomyces* (Ginns and Lefebvre 1993). It is unclear to which genus the Ohio collection (ILLS 39103) belongs.

Corticium debile Berkeley & M.A. Curtis

Type is an indeterminate corticioid from Venezuela (Ginns and Lefebvre 1993). It is unclear what genus the Ohio collection (ISC-F-0081916) belongs.

Corticium lacteum (Fries) Fries

Dubious European corticioid species. Various species have gone under this name in North America (Rogers and Jackson 1943). It is unclear to what genus or genera the Ohio collections belong.

Corticium ochroleucum (Fries) Fries

Dubious European corticioid species. Various species have gone under this name in North America (Burt 1920). It is unclear which genus the Ohio collection (NY 1929977) belongs in.

Corticium spretum Burt

Type is a sterile *Corticium* species (Ginns and Lefebvre 1993). Ohio collection (ILL00057598) likely represents some other *Corticium* species.

Craterellus cornucopioides (Linnaeus) Persoon

European species. Ohio collections likely represent *C. fallax* instead (Matheny *et al.* 2010).

Craterellus undulatus (Persoon) Redeuilh

A G. Diehl collection (CINC-F-0003637) is identified as this species (as *Craterellus crispus*). This is a strictly European species and this collection likely represents a different small *Craterellus* species (Petersen 1969).

Cyanoboletus pulverulentus (Opatowski) Gelardi, Vizzini & Simonini

European species. Ohio collections identified as this species likely represent *Boletus cyanoeitinctus*, which will be given a combination in *Cyanoboletus* in an upcoming publication (Arian Farid pers. comm.).

Cycloderma ohiense Cooke & Morgan

This is an immature *Gastrum* species (Lloyd 1904).

Cymatoderma dendriticum (Persoon) D.A. Reid

Strictly tropical species (Ryvarden 2010). Ohio collections identified as this species may represent *C. caperatum* or some other stereoid basidiomycete.

Cystolepiota hemisclera (Berkeley & M.A. Curtis) Pegler

A neotropical species with strong reticulation on the cap surface. A single A. P. Morgan collection (ISC-F-0086275) identified as this species (as *Lepiota hemisclera*) from Ohio likely represents a different species in the Lepiotaceae, as Morgan's description of the species does not fit *C. hemisclera sensu stricto* (Montoya and Bandala 2005).

Dacrymyces caesius Sommerfelt

Dubious European species. An alleged synonym of both *Dacrymyces tortus* and *Myxarium hyalinum* (Kennedy 1958, McNabb 1973). It is unclear what genus the Ohio collection identified as this species (BPI 702549) belongs in.

Daedalea pallidofulva Berkeley

Supposed synonym of *Trametes elegans* described from Ohio (Fidalgo and Fidalgo 1966). It is more likely that this represents *T. aesculi* instead given that *T. elegans* is a strictly tropical species (Carlson, Justo and Hibbett 2014).

Daldinia concentrica (Bolton) Cesati & De Notaris

European species. Ohio collections identified as this species likely represent *D. chilidae* or other *Daldinia* species (Stadler et al. 2014).

Diplocladium majus Bonorden

This may be another anamorph synonym of *Hypomyces odoratus* (Gams and Hoozemans 1970).

Eutypella platani (Schweinitz) Saccardo

The holotype is apparently immature (Spielman 1985). Ohio collections likely represent other pyrenomycete species.

Exidia albida (Hudson) Brefeld

Dubious European species. This name has been applied to species in many different "heterobasidiomycete" genera (Reid 1970). It is unclear what genera the Ohio collections identified as this species belong in.

Exidiopsis calcea (Persoon) K. Wells

Exidiopsis calcea sensu auct. Amer. likely represents a different, possibly unnamed species (Ginns and Lefebvre 1993).

Fomes fulvus (Scopoli) Gillet

F. fulvus sensu auct. Amer. may be *Phellinus pomaceus* (Murrill 1903, Overholts 1911).

Fomitopsis pinicola (Swartz) P. Karsten

Eurasian species. Ohio collections identified as this species likely represent *F. mounceae* and/or *F. ochracea* instead (Haight *et al.* 2019).

Ganoderma lucidum (Curtis) P. Karsten

European species only present in North America in northern Utah and California, where it has possibly escaped from cultivation. Ohio collections identified as this species likely represent native laccate *Ganoderma* species such as *G. tsugae*, *G. curtisii* and *G. sessile* (Loyd *et al.* 2018).

Ganoderma resinaceum Boudier

European species. Ohio collections identified as this species likely represent *G. sessile* or *G. curtisii* (Loyd et al. 2018).

Gibellula capillaris Morgan

Type is poorly preserved. Not a true *Gibellula*, but it is unclear what it is (Mains 1950a).

Gonatobotryum maculicola (G. Winter) Saccardo

Dubious species. Type collection is lost (Walker and Minter 1981). It is unclear what genus the Ohio collection (BPI 868584) belongs in.

Guepinia spathulata Junghuhn

A poorly known species from Java (Saccardo 1888). Ohio collections under this name are likely *Dacryopinax spathularia* reported using a misspeling of the older name *Guepinia spathularia*.

Gymnopilus junonius (Fries) P.D. Orton

European species. Ohio collections likely represent *G. luteus*, *G. speciosissimus*, or *G. voitkii* (Thorn et al. 2020).

Gymnopus fusipes (Bulliard) Gray

Rooting European species (Halling 1983). It is unclear what the Ohio collection (FH 00597052) identified as this species represents, but an *Oudemansiella* species is possible given that *G. fusipes* is a superficially similar rooting taxon.

Gyromitra grandis (Cumino) Van Vooren & M. Carbone

European species. Ohio collections (as the synonym *G. fastigiata*) likely represent *G. brunnea* instead (Van Vooren and Carbone 2019).

Hebeloma firmum (Persoon) Saccardo

Dubious European species (Vesterholt 1989). The Ohio collection (BPI 839443) may be a *Hebeloma* or a member of some other agaric genus.

Hebeloma latericolor (Montagne) Saccardo

Probable synonym of *Hypholoma lateritium* (Stover 1912, Murrill 1917b).

Helotium citrinum var. *lenticulare* (Bull.) Rehm

Poorly known species. May be a synonym of *Bisporella citrina* or *B. pallescens* (Dennis 1956).

Helvella mitra Linnaeus

Dubious European species. Ohio collections identified as this species likely represent *H. crispa* or some other *Helvella* species (Skrede, Carlsen and Schumacher 2017).

Hohenbuehelia atrocoerulea (Fries) Singer

Eurasian species. Ohio collections identified as this species may represent *H. grisea*, *H. fluxilis*, *H. algonquinensis* and/or *H. canadensis* (Consiglio, Setti and Thorn 2018).

Hohenbuehelia cyphelliformis (Berkeley) O.K. Miller

Strictly European species. Ohio collections identified as this species likely represent *H. pseudocyphelliformis* instead (R. G. Thorn pers. comm.).

Hyaloscypha hyalina (Persoon) Boudier

Dubious European species (Huhtinen 1989). Ohio collections identified as this species likely represent other *Hyaloscypha* species or species in other discomycete genera.

Hydnellum mirabile (Fries) P. Karsten

A C. G. Lloyd collection at S is identified as this species. This is a strictly European species and this collection likely represent *H. cristatum* instead (Baird *et al.* 2013).

Hydnum repandum Linnaeus

Strictly European species. Ohio collections identified as this species likely represent other *Hydnum* species (Niskanen *et al.* 2018).

Hydnum stratosum Berkeley

Poorly known coral fungus growing on wood (Ginns and Lefebre 1993, Desjardin and Ryvarden 2003). May represent *Artomyces pyxidatus* or a *Ramaria* species.

Hygrophorus velutinus I.G. Borshchow

Probable synonym of *Hygrophoropsis aurantiaca* (Boertmann 2002).

Hypocrea armeniacea Berkeley & M.A. Curtis

Dubious species. Holotype is apparently poorly preserved (Seaver 1912).

Hypomyces viridis (Albertini & Schweinitz) P. Karsten

Probable synonym of *H. luteovirens*. Type may be lost (Rogerson and Samuels 1994).

Hypoxylon glycyrrhiza Berkeley & M.A. Curtis

This may be a *Camillea* species, and potentially synonymous with *C. tinctor*, but the type is too poorly preserved to be certain (Læssøe, Rogers, and Whalley 1989). Ohio collections identified as *H. glycyrrhiza* may represent *Camillea* species or species in other similar pyrenomycete genera.

Hysteroglonium ovatum (Cooke) Lindau

Type is poorly preserved and not distinctive (Bisby 1932). Ohio collections identified as this species likely represent species in various hysteroid Dothideomycete genera.

Hysterographium cinerascens Schwein.

Type is immature and not distinctive (Bisby 1932). Ohio collections identified as this species likely represent species in various hysteroid Dothideomycete genera.

Inocybe argentina Spegazzini

An A. P. Morgan collection (ISC0367784) is apparently the only collection identified as this species from North America. C. Spegazzini described this species from Argentina, and it seems unlikely that this same species occurs in Ohio (Spegazzini 1898). Morgan's collection is likely of a different *Inocybe* species.

Inocybe eutheloides Peck

Peck's type description is brief and not especially informative. It is not clear what later collections under this name, including Ohio collections, represent (Matheny 2018).

Inocybe pyriodora (Persoon) P. Kummer

European species. Ohio collections identified as this species likely represent *I. dulciolens* instead (Matheny 2018).

Inonotus tricolor (Bresadola) Y.C. Dai

A C. G. Lloyd collection (NY 3023564) is identified as this species (as *Phellinus tricolor*). This is apparently the only North American collection identified as this strictly East Asian species (Dai 2010). This collection may represent some other species in *Phellinus sensu lato*.

Lactifluus pergamenus (Swartz) Kuntze

Dubious European name that has been applied to several species including *L. piperatus* and *L. glaucescens*. Ohio collections (as *Lactarius pergamenus*) may represent either of these species or some other species in *Lactifluus* sect. *Piperati* (De Crop *et al.* 2014).

Lactifluus volemus (Fries) Kuntze

Strictly European species. Ohio collections identified as this species may represent *Lactifluus corrugis*, *Lactarius volemus* var. *flavus*, or other North American species in *Lactifluus* sect. *Lactifluus*, some of which may be undescribed (Methven 2013, Van de Putte *et al.* 2016).

Leccinum griseum (Quélet) Singer

This is a probable synonym of *L. scabrum*, but *L. griseum sensu auct* is *L. pseudoscabrum* (den Bakker and Noordeloos 2005). Ohio collections identified as *L. griseum* are likely *L. pseudoscabrum*.

Leccinum oxydabile (Singer) Singer

Dubious European name (den Bakker and Noordeloos 2005). Ohio collections identified as this species likely represent other *Leccinum* species.

Lentinus crinitus (Linnaeus) Fries

Primarily a tropical and subtropical species. Ohio collections identified as this species likely represent *L. tigrinus* instead (Grand, Hughes and Petersen 2011).

Lentinus squarrosulus Montagne

Primarily a tropical and subtropical species. Ohio collections identified as this species likely represent *L. tigrinus* instead (Grand, Hughes and Petersen 2011).

Lepista purpurascens (Berkeley & M.A. Curtis) Pegler

An A. P. Morgan collection (ISC-F-0087949) is identified as this species (as *Marasmius purpurascens*). This is a tropical species otherwise only known from the Caribbean (Pegler 1987). It is not clear what Morgan's collection represents.

Lycoperdon elegans Morgan

The type is apparently lost. Ohio collections identified as this species may represent *Lycoperdon* or *Calvatia* species (Demoulin 1979).

Macrolepiota procera (Scopoli) Singer

Strictly European species. This name has been misapplied to an as of yet undescribed *Macrolepiota* species and Ohio collections identified as *M. procera* likely represent that species (Vellinga, de Kok and Bruns 2003; Ge, Yang and Vellinga 2010).

Marasmiellus rugulosus (Berkeley & M.A. Curtis) Singer

This is a strictly tropical and subtropical species. An A. P. Morgan collection (ISC-F-0088138) identified as this species (as *Marasmius rugulosus*) may represent *M. nodosus* or some other similar species (Halling 1987).

Marasmius insititius Fries

Dubious European name. Type does not exist. Some Ohio collections identified as this species may represent *Paragymnopus perforans* (Petersen and Hughes 2016).

Marasmius rotalis Berkeley & Broome

This is a strictly tropical species (Grace 2019). An A. P. Morgan collection (ISC-F-0088137) identified as this species may represent *M. rotula* or some other similar *Marasmius* species.

Marasmius sordescens Berkeley & M.A. Curtis

An A. P. Morgan collection (ISC-F-0088146) is apparently the only North American collection identified as this species otherwise only known from the Bonin Islands (Berkeley 1860). This collection may represent some other *Marasmius* species.

Marasmius splachnoides (Hornemann) Fries

An A. P. Morgan collection (MU-F-39507) is identified as this species. This is a dubious European name and North American collections identified as this species, including Morgan's collection, may represent *Marasmius pallidocephalus* or a similar species (Pouzar 1982).

Megacollybia platyphylla (Persoon) Kotlaba & Pouzar

Strictly European species. Ohio collections likely represent *M. rodmanii* (Hughes *et al.* 2007).

Meripilus giganteus (Persoon) P. Karsten

Strictly European species. Ohio collections identified as this species likely represent *M. sumstinei* (Larsen and Lombard 1988).

Merulius fugax Fries

This name has been applied to *Leucogyrophana mollusca* and *L. romellii* in North America, and Ohio collections identified as *M. fugax* likely represent one of these species (Ginns and Lefebvre 1993).

Morchella crassipes (Ventenat) Persoon

This name has been applied to large forms of *M. americana* and other similar *Morchella* species, and the Ohio identified as *M. crassipes* collections likely represent one or several of those species (Richard *et al.* 2015).

Morchella deliciosa Fries

Strictly European species. Ohio collections identified as this species may represent *M. diminutiva*, *M. virginiana* and/or *M. prava* (Kuo *et al.* 2012).

Morchella elata Fries

Strictly European species. Ohio collections identified as this species may represent *M. angusticeps* and/or *M. septentrionalis* (Kuo *et al.* 2012).

Morchella esculenta (Linnaeus) Persoon

Strictly European species. Ohio collections identified as this species may represent *M. americana*, *M. prava*, and/or *M. ulmaria*, (Kuo *et al.* 2012).

Morchella patula (J.F. Gmelin) Persoon

An A. P. Morgan collection (ISC0368294) is identified as this species. This is a dubious European species, and a supposed synonym of *M. semilibera*, which is itself a strictly European species. Morgan's collection may represent *M. punctipes* instead (Morgan 1902a, Kuo *et al.* 2012).

Morchella semilibera DeCandolle

Strictly European species. Ohio collections identified as this species likely represent *M. punctipes* (Kuo *et al.* 2012).

Mycena alcalina (Fries) P. Kummer

Dubious European name that has been applied to many *Mycena* species in Europe and North America, including *M. inclinata*, *M. maculata*, *M. stipata*, *M. vexans*, and *M. viridimarginata* (Maas Geesteranus 1992). Ohio collections identified as *M. alcalina* may represent one of these species or some other *Mycena* species.

Mycena atroalba (Bolton) Gray

A C. G. Lloyd collection (BPI 733535) is identified as this species. This is a dubious European name. Lloyd's collection may represent *M. galopus* (Smith 1947, Maas Geesteranus 1992).

Mycena corticola (Persoon) Gray

An ambiguous European name. Ohio collections identified as this species may represent *M. corticalis*, *M. meliigena*, *M. miralis*, *M. pseudocorticola* and/or *M. alba* (Maas Geesteranus 1983, Maas Geesteranus 1992).

Mycena cymbalifera (Montagne) Saccardo

Poorly described species. Type may be lost (Stover 1912, Smith 1947).

Mycena excisa (Lasch) P. Kummer

An H. C. Beardslee collection (MICH 58569) is identified as this species. This is a dubious European name. *Mycena excisa* *sensu* Smith is *M. coracina*, but Beardslee's 1923 collection predates Smith's 1947 publication and is not mentioned in it (Smith 1947, Maas Geesteranus 1992). Beardslee's collection likely represents a *Mycena* species, but which is unclear.

Mycena parabolica (Fries) Quélet

M. parabolica sensu stricto is poorly known and probably not a true *Mycena*. Ohio collections identified as this species may represent *M. maculata*, *M. hemisphaerica*, *M. galericulata*, *M. polygramma*, *M. erubescens*, *M. coracina*, and possibly even other *Mycena* species (Maas Geesteranus 1983, Maas Geesteranus 1992).

Mycena peltata (Fries) Gillet

Two C. G. Lloyd collections are identified as this species. This is a dubious European name and these collections likely represent other *Mycena* species (Maas Geesteranus 1992).

Mycena plectophylla (Montagne) Dennis

A strictly tropical species. It is unclear what the Ohio collections identified as this species represent (Singer 1953).

Mycena prolifera (Sowerby) Gillet

The type illustration is apparently of a sterile *Psathyrella* species. Later authors applied this name to various *Mycena* species (Maas Geesteranus 1983). The Ohio collections identified as this species likely represent one or several *Mycena* species.

Mycena vitrea (Fries) Quélet

Dubious European species name applied to several *Mycena* species including *M. sepia* and *M. atroalboides* (Maas Geesteranus 1983, Maas Geesteranus 1992). Ohio collections identified as this species may represent one of the aforementioned species or some other *Mycena* species.

Mycetinis prasiosmus (Fries) R.H. Petersen

An H. C. Beardslee collection (F274881) at S is identified as this species (as "*Mycetinis querceus*"). This is a strictly European species and this collection likely represents *M. olidus* instead (Petersen and Hughes 2017).

Naematelia cinnabarina Montagne

A supposed C. G. Lloyd collection from Ohio (BPI 281112) is reported in MyCoPortal, however, the herbarium label indicates that this is a Montagne collection instead. This is apparently a portion of Montagne's type collection for this species and is actually from Tahiti and not Ohio (Olive 1958).

Neofavolus alveolaris (DC.) Sotome & T. Hattori

Eurasian species. Ohio collections may represent *N. americanus*, and/or one of two other undescribed *Neofavolus* species from eastern North America (Xing, Zhou, and Cui. 2020; Stephen Russell pers. comm.)

Neolentinus ponderosus (O.K. Miller) Redhead & Ginns

A W. B. Cooke collection (NY 1772237) is identified as this species. This species is apparently restricted to the Pacific Northwest of North America (Miller 1965). Cooke's collection likely represents *N. lepideus* instead.

Neonectria coccinea (Persoon) Rossman & Samuels

European species reported from Ohio under the anamorph name *Fusidium candidum* and *Cylindrocarpon candidum*. Ohio collections identified as this species likely represent *Neonectria faginata* (Castlebury, Rossman, and Hyten 2006).

Omphalia alboflava Morgan

Probable synonym of *Gerronema strombodes* (Singer 1970).

Omphalia muralis (Sowerby) Quélet

Possible synonym of *Omphalina pyxidata* (Bigelow 1974).

Omphalotus olearius (DeCandolle) Singer

Strictly European species. Ohio collections identified as this species likely represent *O. illudens* (Kirchmair *et al.* 2006).

Otidea grandis (Persoon) Arnould

Dubious European species. Ohio collections identified as this species likely represent *O. bufonia*, *O. unicisa* or other *Otidea* species (Olariaga *et al.* 2015).

Otidea harperi Rehm

Probable synonym of *Phylloscypha phyllogena* (Olariaga *et al.* 2015).

Oudemansiella longipes (Quélet) M.M. Moser

Dubious European species. Ohio collections identified as this species likely represent other *Oudemansiella* species (Petersen and Hughes 2010).

Oudemansiella radicata (Relhan) Singer

European species. Ohio collections likely represent several other *Oudemansiella* species (Petersen and Hughes 2010; Redhead, Ginns and Shoemaker 1987).

Pachybasium pyramidale (Bonorden) Oudemans

Dubious name (Gamms 2017). An A. P. Morgan collection (ISC0370157) identified as this species may represent a *Trichoderma* species or some other sort of hyphomycete.

Panus dorsalis (Bosc) Fries

Dubious European name (Zmitrovich *et al.* 2018). *Panus dorsalis* *sensu auct amer.* is apparently *Phylloptopsis nidulans*, and Ohio collections identified as *Panus dorsalis* likely represent this species (Lloyd 1912).

Peniophora carnea (Berkeley & Cooke) Cooke

Dubious name. Ohio collections identified as this species likely represent other *Peniophora* species (Ginns and Lefebvre 1993).

Peziza abietina Persoon

A W. B. Cooke collection (CINC-F-0001816) is identified as this species. This is a dubious European name and Cooke's collection could represent a species in several different genera in the Pezizales (Olariaga *et al.* 2015).

Peziza nana Massee & Morgan

Probable synonym of *P. brunneoatra* (Seaver 1942).

Peziza repanda Persoon

Dubious European species. Ohio collections identified as this species likely represent *P. varia* (Hansen, Læssøe, and Pfister 2002).

Phellinus igniarius (Linnaeus) Quélet

Strictly Eurasian species. Ohio collections identified as this species may represent *P. alni*, *P. nigricans*, *P. lundellii* or other similar *Phellinus* species instead (Zhou *et al.* 2016b).

Phellinus laevigatus (Fries) Bourdot & Galzin

Strictly European species. Ohio collections identified as this species likely represent *P. betulinus* instead (Zhou *et al.* 2016b).

Phellinus pomaceus (Persoon) Maire

Strictly European species. Ohio collections identified as this species likely represent *P. pomaceides* instead (Zhou *et al.* 2016b).

Phellinus rimosus (Berkeley) Pilát

Ohio collections identified as this species likely represent *Fulvifomes robiniae* instead (Kotlaba and Pouzar 1978).

Pholiota fusa (Batsch) Singer

An M.E. Hard collection (NYSD9087) is the only collection identified as this species from Ohio. Smith and Hesler (1968) examined this collection and found it to be too poorly preserved to be identifiable.

Pirex concentricus (Cooke & Ellis) Hjortstam & Ryvarden

An M. H. Fulford collection (CINC-F-0005036) identified as *Irpex owensii*, a junior synonym of *P. concentricus*, is the only collection identified as this species from Ohio. *P. concentricus* is restricted to the Pacific Northwest of North America, and this collection likely represents some other resupinate hydnaceous basidiomycete (Hallenberg, Hjortstam and Ryvarden 1985; Ginns and Lefebvre 1993).

Pisolithus tinctorius (Persoon) Coker & Couch

Illegitimate name. *P. arenarius* is a valid replacement name, but Ohio collections identified as *P. tinctorius* may include both *P. arenarius* and *P. arhizus* (Lebel, Pennycook, and Barrett 2018).

Pluteus chrysophaeus (Schaeffer) Quélet

Dubious European name. Ohio collections identified as this species likely represent *P. chrysophlebius* (Justo *et al.* 2011).

Pluteus salicinus (Persoon) P. Kummer

Strictly Eurasian species. Ohio collections identified as this species likely represent *P. americanus* and possibly also the much rarer *P. saupei* (Justo *et al.* 2014).

Pluteus tortus Lloyd

Dubious species. Type is lost (Minnis and Sundberg 2010)

Polyporus destructor (Schrader) Fries

A C. G. Lloyd collection (BPI 303083) is identified as this species. This is a dubious European species name that has been applied to several different polypores (Findlay 1951). Lloyd's collection likely represents some sort of resupinate polypore.

Poria cinerea (Schweinitz) Saccardo

Dubious species. Schweinitz' description is brief and the type is apparently lost (Overholts 1923). Many collections under this name represent *Aporpium caryaee*, and some of the Ohio collections may also represent this species (Texeira and Rogers 1955).

Poria micans Ehrenberg

A C. G. Lloyd collection (BPI 318640) is identified as this species. *Poria micans* may be a synonym of *Pachykytospora tuberculosa*, but *Poria micans* sensu Lloyd is likely not that species. What *Poria micans* sensu Lloyd represents is unclear (Donk 1971).

Poria ornata (Peck) Saccardo

Probable synonym of *Perenniporia subacida* (Overholts 1919).

Poria subtilis (Schrader) Bresadola

An A. P. Morgan collection (BPI 243530) is identified as this species. This name has been applied to *Trechispora hymenocystis* and *T. mollusca* (Larrson 1994). Morgan's collection may represent a poroid *Trechispora* of some sort.

Poria subvincta (Berkeley & Broome) Saccardo

An L. O. Overholts collection (BPI 243517) is identified as this species. The type of this species is poorly preserved and from Sri Lanka (Lowe 1963). It is unclear what sort of polypore Overholts' collection represents.

Poria vitellina (Schweinitz) Saccardo

The type is apparently poorly preserved, and the name has been applied to several different species of polypores (Murrill 1921, Overholts 1923). The Ohio collections could represent any number of different resupinate polypore species.

Porodaedalea chrysoloma (Fries) Fiasson & Niemelä

Strictly European. species Ohio collections identified as this species may represent *P. piceina* or *P. cancriformans* (F. Wu *et al.* 2019).

Porodaedalea pini (Brotero) Murrill

Strictly European species. Ohio collections may represent *P. piceina* or *P. cancriformans* (F. Wu *et al.* 2019).

Psathyrella chondroderma (Berkeley & Broome) A.H. Smith

Two S. J. Mazzer collections are identified as this species. *P. chondroderma* *sensu* Smith is a taxon that Smith later described as *P. velibrunnescens*, while *P. chondroderma* *sensu stricto* is a synonym of *P. pertinax* (Smith 1971; Voto, Dovana, and Garbelotto 2019). It is not clear which of these species Mazzer's collections represent.

Pseudoclitocybe obbata (Fries) Singer

Strictly European species. Ohio collections identified as this species likely represent *P. cyathiformis* (Alvarado *et al.* 2018).

Racodium papyraceum Persoon

A J. R. Paddock collection (ILL00037623) is identified as this species. This is a dubious species originally described from France (Persoon 1801, Saccardo 1899). Persoon's original description is of a "white, thin, papery" fungus forming sheets within drying wood of *Salix alba* (Persoon 1801). This description could apply to the sterile hyphae of many wood-rotting basidiomycetes within their substrates, and Paddock's collection is best regarded as an indeterminate basidiomycete.

Ramaria incurvata (Morgan) Corner

Dubious species. Type may be lost (Corner 1950).

Rhodofomes carneus (Blume & T. Nees) B.K. Cui, M.L. Han & Y.C. Dai

Two C. G. Lloyd collections are identified as this species (as *Polyporus carneus*).

Rhodofomes carneus is a species restricted to Asia and Africa, and *R. carneus* *sensu auct.* Amer. is *R. roseus*. It is likely that Lloyd's collections belong to *R. roseus* (Carranza-Velázquez and Gilbertson 1986, Han *et al.* 2016).

Rhytisma aceris-saccharini Nannfeldt

Nannfeldt (1932) described this provisionally as a *Rhytisma* occurring on *Acer saccharinum* differing from *R. acerinum* and *R. punctatum*. As such, it would be a potential senior synonym of *R. americanum*, but Nannfeldt did not formally name this species (Nannfeldt 1932, James Kameron Mitchell pers. comm.).

Rigidoporus undatus (Persoon) Donk

European species. This species name (as *Poria undata*) has been used in North America for collections of *Physisporinus vitreus*, and the Ohio collections identified as *R. undatus* likely represent this species (Lowe 1966).

Rosellinia albolanata Ellis & Everhart

Dubious *Rosellinia* species. The holotype is immature and sterile (Petrak 1992).

Rosellinia araneosa (Persoon) Saccardo

Two A. P. Morgan collections are identified as this species. The holotype is immature and in poor condition (Petrak 1992). These collections likely represent pyrenomycetes of some sort but may not represent true *Rosellinia* species.

Rosellinia julii Fabre

Dubious species. Type may be lost (Petrak 1992).

Rubroboletus satanas (Lenz) Kuan Zhao & Zhu L. Yang

A G. A. Atkinson collection (CUP-A-019932) is identified as this species. This is a strictly European species (Zhao and Shao 2017). Atkinson's collection likely represents a native bolete species in *Rubroboletus*, *Neoboletus*, or a different bolete genus containing red-pored species.

Russula delica Fries

Strictly European species. Ohio collections identified as this species likely represent *R. brevipes* instead (Buyck and Adamčík 2013).

Russula morganii Saccardo

Probable synonym of *R. eccentrica* (Bills 1985).

Russula veternosa Fries

Strictly Eurasian species. Ohio collections identified as this species likely represent other species in *Russula* subsect. *Rubrinae* (Caboň *et al.* 2017).

Sarcoscypha coccinea (Gray) Boud.

This species is not present in eastern North America. Ohio collections identified as *S. coccinea* likely represent *S. austriaca* or *S. dudleyi* (Harrington 1990).

Sparassis crispa (Wulfen) Fries

Strictly European species. Ohio collections identified as this species likely represent *S. americana* (Hughes, Segovia and Petersen 2014).

Spathularia flava Persoon

Strictly Eurasian species. Ohio collections identified as this species may represent *S. velutina*, *S. rufa*, *S. clavata* or one of the several undescribed North American *Spathularia* species (Ge et al. 2014).

Steccherinum rawakense (Persoon) Banker

Southeast Asian species (Maas Geesteranus 1974). Ohio collections identified as this speceis may represent *S. subrawakense* (V. Spirin pers. comm.).

Steccherinum reniforme (Berkeley & M.A. Curtis) Banker

Neotropical species. Ohio collections may identified as this species may represent *S. subrawakense* (V. Spirin pers. comm.).

Stereopsis radicans (Berkeley) D.A. Reid

An A. P. Morgan collection (BPI 274952) is identified as this species. This is a tropical species (Reid 1965). Morgan's collection may represent a a stipitate steroid basidiomycete in *Stereopsis*, *Podoscypha* or some other similar genus.

Stereum haydenii Berkeley ex Massee

Indeterminate and poorly preserved corticioid (Burt 1920). Not reported in Mycoportal. Type is at K.

Stereum ostrea (Blume & T. Nees) Fries

Southeast Asian species. Ohio collections identified as this species likely represent *S. fasciatum*, *S. lobatum*, and/or *S. subtomentosum* (DeLong-Duhon and Bagley 2020).

Stereum spumeum Burt

A W. B. Cooke collection (CINC-F-0003212) is identified as this species. According to Welden (2010), this is a synonym of *Phanerochaete sordida*. Welden cites Burdsall (1985) as the source for this synonymy, but this may be in error as Burdsall does not directly mention *S. spumeum* in this publication. Welden (1975) also examined the type and stated that it may represent a sterile *Phanerochaete*. Welden's later mention of this species may represent a typo. Cooke's collection may represent a *Phanerochaete* species or some other sort of corticioid basidiomycete.

Stilbum piliforme Persoon

Dubious species. The holotype is missing (Seifert 1985). An A. P. Morgan collection (ISC0369967) is identified as this species and likely represents a synnematous hyphomycete of some sort.

Suillellus luridus (Schaeffer) Murrill

Strictly European species. Ohio collections identified as this species may represent other *Suillellus* species, *Neoboletus* species, or members of other red-pored bolete genera (Igor Safonov pers. comm.).

Suillus albipes (Peck) Singer

Probable synonym of *S. granulatus*. *Suillus albipes* sensu auct. represents *S. glandulosipes* (Both 1993, Nguyen and Vellinga 2016). An R. L. Mason collection (SFSU-F-005092) is identified as this species and may represent either of these *Suillus* species.

Suillus cavipes (Klotzsch) A.H. Smith & Thiers

Strictly Eurasian species. Ohio collections identified as this species likely represent *S. amliporus* (Nguyen and Vellinga 2016).

Suillus grevillei (Klotzsch) Singer

Strictly European species. Ohio collections identified as this species likely represent *S. clintonianus* instead (Nguyen and Vellinga 2016).

Suillus pseudobrevipes A.H. Smith & Thiers

A W. B. Cooke collection (SFSU-F-006387) is identified as this species. This is a strictly western North American species, and the Cooke collection may represent *S. pseudogranulatus* or a similar undescribed *Suillus* species (Nguyen and Vellinga 2016).

Thelephora caespitulans Schweinitz

Dubious species. Collections identified as this species may represent *T. caryophyllea*, *T. penicillata* or a *Thelephora* similar species (Stalpers 1993). A W. B. Cooke collection (CINC-F-0004744) is identified as this species.

Thelephora rosella Peck

Dubious species. Type may represent an *Isaria* species (Stalpers 1993). It is unclear what the Ohio collections identified as this species represent.

Trametes elegans (Sprengel) Fries

Tropical species. Ohio collections identified as this species likely represent *T. aesculi* (Carlson, Justo and Hibbett 2014).

Trametes hispidula Berkeley & M.A. Curtis

Dubious Cuban species. The holotype is sterile (Ryvarden 1984). It is unclear which genus the Ohio collections identified as this species belong in.

Trametes tenuis (Berkeley) Justo

Tropical species (Carlson, Justo and Hibbett 2014; Zmitrovich, Ezhov, and Wasser 2012). Ohio collections identified as this species likely represent other *Trametes* species.

Tremella albida Hudson

Dubious species. Holotype is lost. Ohio collections identified as this species likely represent *Myxarium nucleatum* (Olive 1951).

Tremella gigantea Berkeley & M.A. Curtis

Dubious species. The holotype is apparently a gelatinous lichen rather than a heterobasidiomycete (Massee 1891). An A. P. Morgan collection (ISC0369175) identified as this species likely represents some sort of heterobasidiomycete.

Tremella vesicaria Bulliard

Dubious European species. Ohio collections identified as this species likely represent *Sebacina sparassoidea* (Roberts 2004).

Tricholoma muciferum Berkeley & Montagne

Dubious species. The holotype consists of a mixture of three different species (Murrill 1914, Murrill 1917a).

Tricholoma patulum (Fries) Quélet

Poorly known European species. The supposedly similar *T. patuloides* is also a poorly known species and may represent a *Leucopaxillus* (Farlow 1905, Bigelow 1985). A C. G. Lloyd collection (BPI 739755) is identified as this species.

Tyromyces destructor (Schrader) Bondartsev & Singer

Dubious species. The holotype may represent a *Fibroporia*, but *T. destructor* in the sense of later authors represents *Postia ptychogaster* or a similar species (Stalpers 2000). The Ohio collections identified as this species likely represent *Postia* species.

Valsa dolosa (Fries) Nitschke

Poorly known European species (Braun 2018a). It may be that this species is a synonym of another species and/or belongs in another genus. This species and the A. P. Morgan collection identified as it (ISC-F-0091987) are in need of revision.

Verticillium pyramidale Bonorden

Dubious species (Gams 2017). Ohio collections identified as this species likely represent hyphomycetes of some sort.

Verticillium quaternellum Grove

Dubious species. The type illustration may represent *Calcarisporium arbuscula*, but the type collection is sterile and overgrown by another hyphomycete (Gams 2017). An A. P. Morgan collection (ISC0370545) identified as this species may represent *Calcarisporium arbuscula* or some other hyphomycete.

Xerocomellus chrysenteron (Bulliard) Šutara

European species. Ohio collections identified as this species likely represent an undescribed species close to the western North American *X. diffractus* (Frank *et al.* 2020).

Xerocomus communis (Bulliard) Bon

Dubious European species. Ohio collections identified as this species likely represent *Xerocomellus* species (Both 1993).

Xerula pudens (Persoon) Singer

European species. Ohio collections identified as this species likely represent *Oudemansiella* species (Petersen and Hughes 2020, Qin *et al.* 2014).

Xylaria castorea Berkeley

New Zealand species. This name has been used in North America for *X. cubensis* and *X. curta* and Ohio collections identified as *X. castorea* may represent either of these species (Rogers 1983, Hsieh *et al.* 2010).

Xylaria conocephala Berkeley & M.A. Curtis

This is a synonym of *X. poitei*, but Ohio collections identified as *X. conocephala* likely represent *X. morganii* instead (Ju, Hsieh, and Dominick 2016).

Xylaria digitata (Linnaeus) Greville

Strictly European species. This name has been misapplied in North America to collections of *X. polymorpha*, *X. acuta*, *X. cornu-damae* and other *Xylaria* species (Læssøe 1993). Ohio collections identified as *X. digitata* may represent any of the aforementioned species or some other *Xylaria*.

Xylaria feejeensis (Berkeley) Fries

Tropical species (Rogers 1983). Ohio collections identified as this species likely represent other *Xylaria* species.

Xylaria geoglossum (Schweinitz) Fries

Dubious species. The type may be a *Geoglossum* rather than a *Xylaria* (Ellis and Everhart 1887). An L. E. Wehmeyer collection (MICH 274266) is identified as this species. It is unclear what this collection represents.

Xylaria macrospora (Penzig & Saccardo) P.M.D. Martin

A W. B. Cooke collection (MU-F-035743) is identified as this species. This is an obscure species described from Java (Penzig and Saccardo 1904). Cooke's collection likely represents some other *Xylaria* species.

Xylaria multifida (Kunze) Cooke

An H. C. Beardslee collection (MICH 274244) is identified as this species. This is an obscure tropical species (Ellis and Everhart 1887). The Beardslee collection likely represents some other *Xylaria* species.

Xylaria ramus Lloyd

Type collection represents immature *Xylaria* ascocarps (Ju, Hsieh and Dominick 2016).

Xylostroma giganteum Persoon

This name has been used for sheets of sterile mycelium of various fungi (Lloyd 1921, Donk 1962). Ohio collections identified as this are probably best regarded as indeterminate basidiomycetes.

Zygodesmus fuscus Corda

An A. P. Morgan collection (ISC0370512) is identified as this species. This is a supposed synonym of *Tomentella biennis* (Rogers 1948), which is itself a dubious *Tomentella* species (Larsen 1981). Morgan's collection likely represents a *Tomentella* of some sort.

Zygodesmus hydnoideus Berkeley & M.A. Curtis

Probable synonym of *Odontia ferruginea* (Banker 1929).

Zygodesmus tristis Cesati

Poorly known European species (Braun 2018b). The description of this species is too brief to be useful in identification, and it is not clear whether there is any extant type material. This is probably best regarded as a *nomen dubium*. The genus name *Zygodesmus* was applied to various dubious corticioid and hyphomycete species in the 19th century (Rogers 1948). It is not clear what the A. P. Morgan collection identified as this species (ISC-F-0092191) represents.

Appendix C – Perl scripts

The following three Perl scripts were used to produce a species list containing the current taxon names for collections from Ohio in the MyCoPortal and CNALH collections databases with associated taxonomy and author information for each taxon. A list of unique values was generated for the taxon names contained in both databases, and this list was used by the first Perl script to process the complete MycoBank database export and remove all taxa not present in the MyCoPortal and CNALH unique values list. This filtered dataset was printed to an output file.

The second Perl script used the output file of the first script and printed all taxon that were marked as current in the MycoBank database export to one output file, and all those for which this was not the case to another output file. The output file containing the non-current names was processed by selecting all values in its “current name” column and manually creating a new unique values list containing them. The third Perl scripted filtered the complete MycoBank database export and removed all taxa not present in this non-current unique values list and printed them to another output file.

The output file of the second Perl script containing current names and the output file of the third Perl script were combined into one spreadsheet, and this was edited further manually to generate the final species list for Ohio collections.

First Perl Script

```
#!/usr/bin/perl
```

```
use strict;
```

```
use warnings;

use Data::Dumper;

open (FILE, shift);

#usage: perl TSV_1.pl filename1 filename2

my $headers = <FILE>;

chomp $headers;

my @headers = split("\t",$headers);

#Load hash for first file (MycoBank database file)

my %tsv_hash;

my $row = 0;

while (my $line = <FILE>){

    chomp $line;

    next if $line eq "";

    my @cells = split("\t",$line);

    my $i=0;
```

```
foreach my $cell(@cells){

    $tsv_hash{$row}{$headers[$i]}=$cell;

    $tsv_hash{$row}{'mycobank_line'}=$line;

    $i++;

}

$row++;

}

#print Dumper %tsv_hash; #uncomment to check contents of hash

#load hash for second file (Mycoportal and CNALH unique values list)

open (FILE2, shift);

my $header = <FILE2>;

chomp $header;

my %mycoportal_hash;

#Create an output file to print to

open(OUTFILE,>"new_mycobank.tsv");
```

```
print OUTFILE "$headers\n";\n\nwhile (my $line = <FILE2>){\n    chomp $line;\n\n    next if $line eq \";\n\n    $mycoportal_hash{$line}=1;\n}\n\n
```

```
#print Dumper %mycoportal_hash; #uncomment to show contents of second hash
```

```
#This portion finds only those rows in the first hash for which there is a matching taxon name in\nthe second hash and prints them to the output file
```

```
foreach my $counter(keys %tsv_hash){\n    my $taxon_name = $tsv_hash{$counter}{'Taxon_name'};\n\n    if (exists $mycoportal_hash{$taxon_name}) {print OUTFILE\n        "$tsv_hash{$counter}{'mycobank_line'}\n    \";}\n}\n\n
```

Second Perl Script

```
#!/usr/bin/perl

use strict;

use warnings;

use Data::Dumper;

open (FILE, shift);

#usage: perl TSV.pl filename1 filename2

my $headers = <FILE>;

chomp $headers;

my @headers = split("\t",$headers);

#load hash for first file (MycoBank database file)

my %tsv_hash;

my $row = 0;

while (my $line = <FILE>){

    chomp $line;

    next if $line eq ";
```

```
#print "$line\n"; #uncomment previous line to test if lines have been properly read

my @cells = split("\t",$line);

my $i=0;

foreach my $cell(@cells){

    $tsv_hash{$row}{$headers[$i]}=$cell;

    $tsv_hash{$row}{'mycobank_line'}=$line;

    $i++;

}

$row++;

}

#print Dumper %tsv_hash; #uncomment to show contents of 1st hash

#load hash for 2nd file (MyCoPortal data)

open (FILE2, shift);

$headers = <FILE2>;

#load the contents of the 2nd file

my %mycobank_hash;
```

```
#create an output file

open(OUTFILE,>"new_mycobank.tsv");

print OUTFILE "$headers\n";

$row=0;

while (my $line = <FILE2>){

    chomp $line;

    next if $line eq "";

    #print "$line\n"; #uncomment previous line to test if lines have been properly read

    my @cells = split("\t",$line);

    my $i=0;

    foreach my $cell(@cells){

        $mycobank_hash{$row} {$headers[$i]}=$cell;

        $mycobank_hash{$row} {'mycobank_line'}=$line;

        $i++;

    }

    #print $row; #uncomment previous line to test if rows have been properly created
```

```

$row++;

}

#print Dumper %mycobank_hash; #uncomment to show contents of 2nd hash

foreach my $counter(keys %tsv_hash){

    my $taxon_name = $tsv_hash{$counter}{'Taxon_name'};

    my $current_name = $tsv_hash{$counter}{'Current name.Taxon_name'};

    my $name_status = $tsv_hash{$counter}{'Name_status'};

    if (($current_name eq $taxon_name) or ($current_name eq "-")){

        #This portion prints taxa whose names are still "current" in the Myocbank
        database. Comment this portion and uncomment the following "else" portion to print taxa for
        which this is not the case

        $tsv_hash{$taxon_name}{'row'} = $row;

        print OUTFILE "$tsv_hash{$counter}{'mycobank_line'}\n";

    }

    # else {
    #
    #     print OUTFILE "$tsv_hash{$counter}{'mycobank_line'}\n";
    #
    # }

}

```

```

#      #print "$taxon_name\n";

#      if (exists $mycoportal_hash{$taxon_name}) {print OUTFILE
"$tsv_hash{$counter}{'mycobank_line'}\n";}

#}

```

Third Perl Script

```

#!/usr/bin/perl

use strict;
use warnings;
use Data::Dumper;

#usage: perl TSV_3.pl filename1 filename2

#Create a hash for the "not current" unique values list
open (FILE, shift);
my $header = <FILE>;
chomp $header;
my %mycoportal_hash;

#Load dictionary of unique sp names from "not current" list =1
while (my $line = <FILE>){
    chomp $line;
    next if $line eq "";
    $mycoportal_hash{$line}=1;
}

```

```
}
```

```
#print Dumper %mycoportal_hash; #uncomment to show contents of hash

#load 2nd hash, entire mycobank database
open (FILE2, shift);
my $headers = <FILE2>;
chomp $headers;
my @headers = split("\t",$headers);
my %mycobank_hash;

open(OUTFILE,'>new_mycobank_2.tsv');

#formerly "not current" names from mycoportal list, sorted so that taxon name = current name,
i.e., current synonyms

my $row=0;
while (my $line = <FILE2>){
    chomp $line;
    next if $line eq "";
    my @cells = split("\t",$line);
    my $i=0;
    foreach my $cell(@cells){
        $mycobank_hash{$row}{@headers[$i]}=$cell;
        $mycobank_hash{$row}{'mycobank_line'}=$line;
        $i++;
    }
    $row++;
}
```

```
#print Dumper %mycobank_hash; #uncomment to show contents of hash

#This portion finds only those rows in the first hash for which there is a matching taxon name in
the second hash and prints them to the output file

foreach my $counter(keys %mycobank_hash){

    my $taxon_name = $mycobank_hash{$counter}{'Taxon_name'};

    if (exists $mycoportal_hash{$taxon_name}) {print OUTFILE
"$mycobank_hash{$counter}{'mycobank_line'}\n";}

}
```

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