

Retiboletus ornatipes



Galerina marginata



Bisporella citrina

Pictorial Field Guide to the Fungi of the Westchester Wilderness Walk/ Zofnass Family Preserve

by

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Introduction

The purpose of this pictorial guide is to give visitors to the Preserve an opportunity to learn about the fungi they encounter. The guide is based on the collections and images made by the authors and those who collected with them. The results of our inventory of the flowering plants and fungi can be accessed here: (<u>http://sweetgum.nybg.org/science/projects/wlt/</u>). The only group not included is the algae, one of the least known groups in the Northeastern United States.

Hawksworth (1991) estimated that there are six species of fungi for each flowering plant species on the planet. Using a conservative estimation of 250,000 as the worldwide number of flowering plants, he hypothesized that there are 1,500,000 species of fungi on the planet. Only 74,000 species of fungi have been provided with scientific names. That represents merely 3.5% of the estimated total number of published species of fungi in the world (Hawksworth, 2011).

Over the last five years, we collected and photographed 300 species of flowering plants in the Preserve (Naczi et al. 2015); thus, we expect there to be as many as 1,800 species of fungi in the Preserve. To date only 110 species of fungi have been recorded in our checklist so it is clear that there are many more species of fungi in the Preserve that have not yet been documented. Although 2,189 species were published in 2017, this is a small number compared to the ca.1.5 million species that still need to be described by mycologists (Royal Botanic Gardens Kew, 2018b).

Fungal Classification

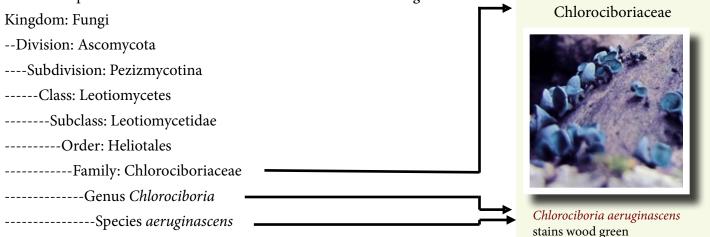
We organized the Pictorial Guide based on data from Index Fungorum (Royal Botanic Gardens Kew, 2018a). Two other groups, the International Mycological Association (2018) and Landcare Research (2018), were also consulted. There are two major factors, however, that make if particularly difficult to classify fungi. In the first place, there are many species of fungi known as new species but without scientific names. In the second place, published species are sometimes reclassified; meaning that past work requires time-consuming changes to Index Fungorum. New classifications that replace old classifications eventually colonize other databases such as KE Emu used at The New York Botanical Garden(NYBG).

As fungi are reexamined using morphological and molecular data it may cause changes to previous classifications. For example, two species that used to be placed in the same family (*Chlorociboria aeruginascens* and *Bisporella citrina*) are now segregated into the Chlorociboriaceae and Helotiaceae respectively (Royal Botanic Garden Kew, 2018a). The NYBG database keeps each of the species in the Helotiaceae. Another challenge is the division of a single genus into another. For example, *Boletus ornatipes* has been placed in *Retiboletus ornatipes* (Royal Botanic Garden Kew, 2018a). The genus is incorrectly treated as *Boletus ornatipes* based on data from the NYBG fungal database. In contrast. Index Fungorum correctly treats *Boletus bicolor* as a synonym of *Baorangia bicolor*.

In Appendix 1, we present an update of a list of 32 taxa from the database of the NYBG fungal database (2018 onward). The updated data comes from Index Fungorum (Royal Botanic Garden Kew, 2018a) which is considered to be the standard used by mycologists. This ensures that the correct spelling of taxa is used, authorship correctly credited, species placed in the correct family, synonymies correct, etc.

Non-Fungal Entities

We also consider a few non-fungal entities called myxomycota or slime-molds. These organisms lack cell walls as well as hyphae and are no longer considered part of the fungal kingdom. Amateur mycologists often encounter slime molds because they occur in similar habitats as fungi. We include them because they are incredibly beautiful when fertile, occasionally confused for fungi at this stage, and because we want to teach others the differences between fungi and slime molds. Below is depicted the current classification of Chlorociboria aeruginascens.



How to Use the Pictorial Guide

This pictorial guide works by comparing images at two levels. The first is an index that describes and provides images for the groups of fungi. The second is a larger gallery of images belonging to the groups. One might identify a fungus by seeing it in the index and not have to consult the group gallery. On the other hand, the index may only give an idea of what group an unknown fungus may belong to. Then the gallery images of the group have to be consulted. If you are lucky, one of the gallery images could match the fungus you wish to identify.

substrate: wood

Many times, however, none of the images match the fungus you are looking at. This happens for several reasons 1) you might have found a species that has never been collected from the Preserve, 2) species may look differently at different stages of development, For example, color may be so variable that it is not reliable for identification (e.g., you might have seen a fungus in red phase but we have imaged the same species but in its yellow phase); and 3) you do not know what features are useful for identification.

Click on <u>Family Checklists</u> to see a greater number of images than included in the Pictorial Field Guide(<u>http://sweetgum.nybg.org/science/projects/wlt/portfolio/fungi/</u>).

Literature Cited

Hawksworth, D. L. 1991 *The fungal dimension of biodiversity : magnitude, significance, and conservation.* Mycological Research 95: 641–655. 2018 accessed. (<u>https://www.sciencedirect.com/science/article/abs/pii/S0953756209808101</u>).

Hawksworth, D. L. 2011. *The magnitude of fungal diversity. The 1.5 million species estimate revisited.* Mycological Research 12: 1422—1432. 2018 accessed. (<u>http://www.davidmoore.org.uk/21st_Century_Guidebook_to_Fungi_PLATINUM/REPRINT_collection/Hawksworth_magnitude_diversity2001.pdf</u>).

R. F. Naczi, S. A. Mori, M. Rothman, C. Corolla Matos & J. Jiang. 2015 onward. Flowering Plants in Plants and Fungi of the Westchester Wilderness Walk/Zofnass Family Preserve. The New York Botanical Garden, New York. 2018 accessed. (http://sweetgum.nybg.org/wlt/angiosperms.php).

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International Mycological Association. 2018 accessed. MycoBankDatabase. Fungal Databases, Nomenclature & Species Banks (<u>http://www.mycobank.org/defaultinfo.aspx?Page=Home</u>).

Landcare Research (Manaki Whenua). 2018 accessed. New Zealand Fungarium (https://www.landcareresearch.co.nz/resources/collections/pdd).

Illustrated Index to the Gallery

Sac Fungi

Ascomycota Sordariomycetes

page 8

Diatrypaceae



Diatrype sp. substrate: wood

Xylariaceae



Xylaria cf. longipes substrate: wood

Helotiaceae

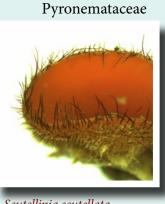


Ascomycota Leotiomycetes Geoglossomycetes Dothideomycetes page 9

Sac Fungi

Ascomycota Eurotiomycetes Lecanoromycetes Pezizomycete

page 10



Scutellinia scutellata margin with eyelash like hairs substrate: wood [27613 M C]



Ascocoryne sarcoides substrate: wood

Boletes

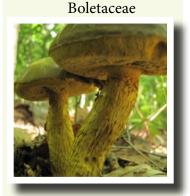
Basidiomycota Boletales

page 12

Boletinellaceae



Boletinellus merulioides associated with leafcurl ash aphid substrate: soil near ash trees



Retiboletus ornatipes ornately reticulated stipe substrate: soil



Basidiomycota Agaricales

page 14

Hymenogastraceae



Galerina marginata substrate: wood

Marasmiaceae



Megacollybia rodmanii substrate: wood [CM 18]

Cantharellaceae

<u>Chanterelles</u>

Basidiomycota Cantharellales

page 17

<u>Russulas</u>

Basidiomycota Russulales

page 18

Russulaceae



Russula emetica substrate: soil

Auriscalpiaceae



Artomyces pyxidatus substrate: wood [CM 6]

Bondarzewiaceae



Bondarzewia berkeleyi substrate: soil at oak [CM 44]

page 5



Craterellus fallax substrate: soil [CM 29]



Basidiomycota Polyporales

page 20

Ganodermataceae



Ganoderma applanatum substrate: wood [CM 7]

Meruliaceae



Irpex lacteus spiny(toothed) fertile surface substrate: wood

Hymenochaetaceae

Polypores

Basidiomycota Hymenochaetales page 22

Polypores

Basidiomycota Thelephorales

page 23

Bankeraceae



Hydnellum cf spongiosipes spiny(toothed) fertile surface substrate: wood



Coltricia cinnamomea substrate: soil [CM 67]

Jelly Fungi

Basidiomycota Dacrymycetales Tremellales Sebacinales

page 24

Tremellaceae



Tremella mesenterica substrate: wood

Sebacinaceae



Sebacina schweinitzii substrate: soil [CM 68]

<u>Slime Molds</u> <u>Protozoa</u>

Myxomycota Trichiales Stemonitales

page 26

Stemonitidaceae



Stemonitis fusca substrate: wood [CM 60]

Arcyriaceae



Arcyria sp. substrate: wood

Tubiferaceae

<u>Slime Molds</u> <u>Protozoa</u>

Myxomycota Liceales

page 27

Pucciniomycotina

Basidiomycota Atractiellales

page 28

Incertae sedis



Leucogloea compressa substrate: wood



Lycogala epidendrum substrate: wood

Sac Fungi (Ascomycota - Sordariomycetes)

This class of fungi can be diagnosed by embedded chambers, called *perithecia*, within which ascospores are produced. The sordariomycetes consists of many inconspicuous members. Some are confused for burned wood. Together groups of perithecia interrupt the stromatic surface creating a rough texture which aid in field identification.



Annulohypoxylon sp. substrate: wood

Hypoxylaceae



Daldinia childiae substrate: wood



Hypoxylon fragiforme red in KOH substrate: wood Hypocreaceae



Hypocrea gelatinosa substrate: wood



Diatrype sp. substrate: wood

Diatrypella sp. substrate: wood



Eutypa spinosa substrate: wood [CM 31]



Eutypella sp. substrate: wood



Dialonectria episphaeria subtrate: *Diatrype sp.*



Nectria cinnabarina substrate: wood



Kretzschmaria deusta substrate: wood

Xylariaceae



Xylaria longipes substrate: wood

Diatrypaceae

Sac Fungi (Ascomycota - Leotiomycetes, Geoglossomycetes, Dothideomycetes)

A wide phylum. Many represented members of these families mature with cups, called *ascocarps*, upon which ascospores are produced. Occasionally these appear as colorful dots and closer inspection reveals the cup-like structure.



Ascocoryne sarcoides substrate: wood

Helotiaceae

Rhytismataceae



Bisporella citrina lemon yellow, drying orange substrate: wood

Dermateaceae



Chlorosplenium sp. substrate: wood [CM 62]

Bulgariaceae

Leotiaceae



Leotia lubrica substrate: soil

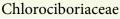


Lophodermium sp. substrate: wood



Rhytisma prini substrate: Ilex verticillata leaves. [SM 27680]

Bulgaria inquinans substrate: wood [CM 27]





Chlorociboria aeruginascens stains wood green substrate: wood See Alternate Classification

Capnodiaceae



Trichoglossum walteri substrate: soil



Geoglossum difforme substrate: wood [CM 85]

Asteromella kalmicola with pseudothecium substrate: mountain laurel See Alternate Classification

Incertae sedis(Dothideomycetes) Capnod



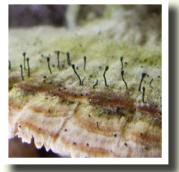
with pseudothecium substrate: aphid exudate

Sac Fungi (Ascomycota - Eurotiomycetes, Lecanoromycetes, Pezizomycetes)

Click to Return to Illustrated Index

A wide phylum. Many represented members of these families mature with cups, called *ascocarps*, upon which ascospores are produced. Occasionally these appear as colorful dots and closer inspection reveals the cup-like structure.

Mycocaliciaceae



Phaeocalicium polyporaeum substrate: *Trichaptum biforme* mushroom surface

Baeomycetaceae

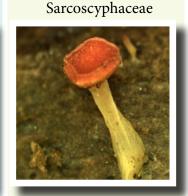


Sarea resinae substrate: white pine resin [photo by M. Rothman] See Alternate Classification

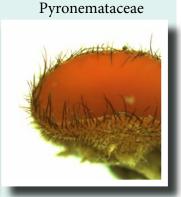
Sarcosomataceae



Galiella rufa substrate: wood [CM 78]



Sarcoscypha occidentalis substrate: wood [CM 37]



Scutellinia scutellata margin with eyelash like hairs substrate: wood [SM 27613]

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Boletes (Basidiomycota - Boletales)

Click to Return to Illustrated Index

Most members of this group of fleshy mushrooms have a cap with a conspicuous fertile surface. It consists of an elongated and often detachable pore layer within which develop fertile basidiospores. These mushrooms often arise from the ground and have a stipe, or stem-like structure, which connects to the center of the cap.



Leccinum scabrum rough projections of cystidia on stalk, called *scabers* substrate: soil

Boletaceae



Pseudoboletus parasiticus substrate: *Scleroderma citrinum*



Retiboletus ornatipes ornately reticulated stipe substrate: soil



Sutorius luridiformis substrate: soil [CM 46]



Boletus variipes substrate: soil [CM 100]



Boletus subluridellus substrate: soil [CM 47]



Boletus miniato-olivaceus substrate: soil [CM 36]



Tylopilus felleus substrate: soil [CM 100]



Baorangia bicolor substrate: soil [CM 93]

Gyroporaceae



Gyroporus castaneus substrate: soil near oak trees.

Boletinellaceae



Boletinellus merulioides associated with leafcurl ash aphid substrate: soil near ash trees

Sclerodermataceae



Scleroderma citrinum no stem and spores that develop internally= a gasteromycete. substrate: soil near oak trees.

Agarics (Basidiomycota - Agaricales)

These families have a conspicuous fertile surface consisting of gills, an attached redundant blade-like structure upon each side develop basidiospores. Almost all members of these families rise from a central stipe.



Psathyrella sp. substrate: wood [SM 27615]

Psathyrellaceae



Coprinellus micaceus substrate: wood



Parasola auricoma substrate: decayed wood

See Alternate Classification



Crepidotus applanatus substrate: wood



Crepidotus mollis substrate: wood

See Alternate Classification



Nothopanus candidissimus substrate: wood

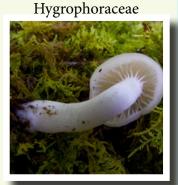
See Alternate Classification



Megacollybia rodmanii substrate: wood [CM 18]

See Alternate Classification

Pleurotaceae



Hygrocybe sp. substrate: soil <u>See Alternate Classification</u>



Pholiota aurivella substrate: wood

Strophariaceae



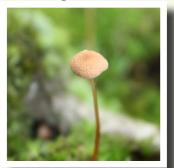
Agrocybe sp. substrate: soil [SM 27596]



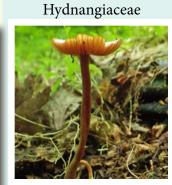
Pleurotus ostreatus substrate: wood [SM 27871]

Marasmiaceae

Omphalotaceae



Mycetinis sp. substrate: soil [CM 74]



Laccaria laccata substrate: soil [CM 26]



Pluteaceae

Pluteus sp. substrate: wood Lycoperdaceae



Apioperdon pyriforme a gasteromycete with internal spores. substrate: wood See Alternate Classification

Cortinariaceae



Cortinarius sp. substrate: soil

Entolomataceae



Entoloma strictius substrate: soil



Cyptotrama asprata substrate: wood



Hymenopellis furfuracea substrate: on subterranean beech tree root.

Clavariaceae



Clavaria fumosa substrate: soil [CM 99]



Galerina marginata substrate: wood See Alternate Classification Hymenogastraceae

See Alternate Classification



Hypholoma lateritium substrate: soil [SM 27866] See Alternate Classification



Gymnopilus sp. substrate: soil [SM 27610] <u>See Alternate Classification</u>

page 15



Mycena haematopus var. marginata substrate: wood

Mycenaceae



Mycena semivestipes substrate: wood



Panellus serotinus substrate: wood



Panellus stipticus substrate: wood



Mycena galericulata substrate: soil [CM 23]



Delicatula integrella substrate: soil



Clitocybe sp substrate: soil [CM 104]



Hymenopellis furfuracea substrate: soil; rooting.

See Alternate Classification



Amanita citrina substrate: soil [CM 54]



Amanita flavoconia substrate: soil [CM 98]



Amanita onusta substrate: soil [CM 80]



Amanita vaginata substrate: soil [CM 39]

Chanterelles (Basidiomycota -Cantharellales)

These families have a conspicuous fertile surface consisting of ridges with cross viewing and are often funnel shaped.

Cantharellaceae



Craterellus fallax substrate: soil [CM 29]



Cantharellus cinnabarinus substrate: soil [CM 90]

Russulas (Basidiomycota - Russulales)

Click to Return to Illustrated Index

These families have a conspicuous fertile surface consisting of gills, an attached redundant blade-like structure upon each side develop basidiospores. Almost all members of these families rise from a central stipe.



Lactarius affinis substrate: soil



Lactarius griseus substrate: soil

Russulaceae



Lactarius volemus substrate: soil



Russula emetica substrate: soil



Russula aeruginea substrate: soil [CM 94]



Russula crustosa substrate: soil [CM 96]



Russula claroflava substrate: soil [CM 97]



Russula mariae substrate: soil [CM 76]



Lactarius deceptivus substrate: soil [CM 64]



Lactarius camphoratus substrate: soil [CM 70]



Russula compacta substrate: soil [CM 92]

Auriscalpiaceae



Artomyces pyxidatus substrate: wood [CM 6]

Bondarzewiaceae



Bondarzewia berkeleyi substrate: soil at oak [CM 44]



Stereum hirsutum smooth corticoid fungi substrate: wood



Stereum striatum smooth corticoid fungi substrate: wood



Stereum complicatum smooth corticoid fungi substrate: wood



Stereum ostrea substrate: wood [SM 27601]



Xylobolus frustulatus smooth cracked surface substrate: wood

Polypores (Basidiomycota - Polyporales)

Click to Return to Illustrated Index

Most of members of these families form either thick(shelf-like) or thin(parchment-like) structures on wood. Their bodies are often hardened by the presence of skeletal hyphae. Basidiospores are produced within a rigid, embedded tube layer comprising the fertile surface. Some species form this layer flat upon an under surface so that the mushroom is entirely a reproductive surface.



Daedaleopsis confragosa substrate: wood

Polyporaceae



Lenzites betulinus substrate: wood <u>See Alternate Classification</u>



Neofavolus alveolaris substrate: wood



Pycnoporus cinnabarinus substrate: wood [SM 27673]



Picipes melanopus substrate: wood See Alternate Classification



Cerioporus varius substrate: wood See Alternate Classification



Trametes pubescens substrate: wood



Trametes versicolor substrate: wood

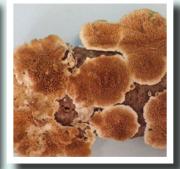


Tyromyces chioneus substrate: wood



Cerioporus squamosus substrate: wood [CM 8]

See Alternate Classification



Cerrena unicolor substrate: wood [CM 38]



Fomes fomentarius substrate: wood

Polyporaceae



Trametes gibbosa substrate: wood [SM 28111]



Fomitopsidaceae

Fomitopsis betulina substrate: wood [SM 28114] <u>See Alternate Classification</u>



Ischnoderma resinosum substrate: wood See Alternate Classification



Laetiporus sulphureus substrate: wood <u>See Alternate Classification</u>



Postia caesia substrate: wood



Daedalea quercina substrate: wood

Ganodermataceae



Ganoderma applanatum substrate: wood [CM 7]



Gelatoporia dichroa substrate: wood

See Alternate Classification

Meruliaceae



Radulodon copelandii substrate: wood spiny(toothed) fertile surface See Alternate Classification



Irpex lacteus spiny(toothed) fertile surface substrate: wood <u>See Alternate Classification</u>

Polypores (Basidiomycota - Hymenochaetales)

Click to Return to Illustrated Index

Most of members of these families form either thick(shelf-like) or thin(parchment-like) structures on wood. Their bodies are often hardened by the presence of skeletal hyphae. Basidiospores are produced within a rigid, embedded tube layer comprising the fertile surface. Some species form this layer flat upon an under surface so that the mushroom is entirely a reproductive surface.

Hymenochaetaceae



Hymenochaetopsis olivacea spiny(toothed) fertile surface substrate: wood

Hymenochaete rubiginosa substrate: wood

KOH

Phellinus viticola substrate: wood



Phellinus gilvus substrate: wood



Coltricia cinnamomea substrate: soil [CM 67]

Incertae sedis(Atractiellales)



Trichaptum biforme spiny(toothed) fertile surface substrate: wood <u>See Alternate Classification</u>

Polypores (Basidiomycota - Thelephorales)

Most of members of these families form either thick(shelf-like) or thin(parchment-like) structures on wood. Their bodies are often hardened by the presence of skeletal hyphae. Basidiospores are produced within a rigid, embedded tube layer comprising the fertile surface. Some species form this layer flat upon an under surface so that the mushroom is entirely a reproductive surface.

Bankeraceae



Hydnellum spongiosipes spiny(toothed) fertile surface substrate: wood

Jelly Fungi (Basidiomycota - Dacrymycetales, Tremellales, Sebacinales)

These families includes gelatinous mushrooms which produce basidiospores. Most grow on wood.

Dacrymycetaceae



Calocera cornea substrate: wood



Heterotextus sp. substrate: wood [CM 17]

Tremellaceae



Tremella mesenterica substrate: wood



Phaeotremella foliacea substrate: wood [CM 24]

Sebacinaceae



Sebacina schweinitzii substrate: soil [CM 68]

See Alternate Classification

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Slime Molds (Protozoa, Myxomycota - Trichiales, Stemonitiida)

Members of these families live as independent cells throughout the larger part of their lives. Eventually they will coalesce into masses of protoplasm (=slime) finally produce fertile bodies from which their spores are produced. Represented in the field are these most-visible, final, reproductive forms.

Arcyriaceae



Arcyria sp. substrate: wood



Arcyria incarnata substrate: wood [CM 56]



Hemitrichia serpula substrate: wood

Trichiaceae



Click to Return to

Hemitrichia calyculata substrate: wood [CM 55]



Stemonitis fusca substrate: wood [CM 60]

Stemonitidaceae

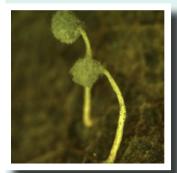


Stemonitis splendens substrate: wood [CM 41]



Diachea leucopodia substrate: wood [SM 27614]

Physaraceae



Physarum nucleatum substrate: wood [CM 57]



Fuligo septica var. septica substrate: wood [CM 95]

Slime Molds (Protozoa, Myxomycota - Liceales, Protostelida)

Members of these families live as independent cells throughout the larger part of their lives. Eventually they will coalesce into masses of protoplasm (=slime) finally produce fertile bodies from which their spores are produced. Represented in the field are these most-visible, final, reproductive forms.

Ceratiomyxidae





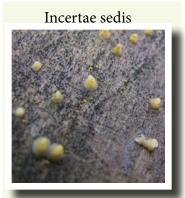
Ceratiomyxa fruticulosa var. fruticulosa substrate: wood [SM 27609]



Lycogala epidendrum substrate: wood

Pucciniomycotina (Basidiomycota - Atractiellales)

This subclass comprises a diverse range of fungi including plant pathogens, insect pathogens, smuts, and dimorphic yeasts.



Leucogloea compressa substrate: wood

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Appendix

Updates to the NYBG's Fungal Database

The specimens, images, and data included in this project are archived in the NYBG's herbarium and managed by the Electronic Museum Management System (EMu) at NYBG. In general, we accept the names and hierarchy of taxa based on Index Fungorum (Royal Botanic Gardens Kew, 2018a). For the most part, the data in EMu at NYBG follow Index Fungorum's classification. The 32 taxa that do not follow the classification of Index Fungorum are provided in this Appendix.

Amanitaceae

The Amanita genus has been moved to Amanitaceae instead of Pluteaceae.

Auriscalpiaceae

Clavicorona pyxidata has been changed to *Artomyces pyxidatus*.

Baeomycetaceae

Sarea resinae has been placed in Baeomycetaceae instead of Dermateaceae.

Chloroboriaceae

Chloroboria aeruginascens has been placed in Chloroboriaceae instead of Helotiaceae.

Fomitopsidaceae

Ischnoderma resinosum has been placed in Fomitopsidaceae instead of Hapalopilaceae. *Laetiporus sulphureus* has been placed in Fomitopsidaceae instead of Polyporaceae. *Piptoporus betulinus* has been changed to *Fomitopsis betulina*.

Hygrophoraceae

The Hygrocybe genus has been moved to Hygrophoraceae instead of Tricholomataceae.

Hymenogastraceae

Galerina marginata has been moved to Hymenogastraceae instead of Cortinariaceae. The *Gymnopilus* genus has been moved to Hymenogastraceae instead of Cortinariaceae. *Hypholoma sublateritium* has been changed to *Hypholoma lateritium* which is placed in Hymenogastraceae instead of Strophariaceae.

Incertae sedis - Dothideomycetes - Ascomycota Asteromella kalmicola has been placed in Incertae sedis instead of Anamorphic fungi.

Incertae sedis - Atractiellales - Basidiomycota *Trichaptum biform*e has been placed in Incertae sedis instead of Polyporaceae.

Inocybaceae

The *Crepidotus* genus has been moved to Inocybaceae instead of Cortinariaceae.

Lycoperdaceae

Lycoperdon pyriforme has been changed to Apioperdon pyriforme.

Marasmiaceae

Megacollybia rodmanii has been placed in Marasmiaceae instead of Tricholomataceae. *Nothopanus candidissimus* has been placed in Marasmiaceae instead of Tricholomataceae.

Meruliaceae

Polyporus dichrous has been changed to *Gelatoporia dichroa*. *Irpex lacteus* has been placed in Meruliaceae instead of Steccherinaceae.

Mycenaceae

Mycena haematopus has been changed to *Mycena semivestipes* which is placed in Mycenaceae instead of Tricholomataceae.

The Panellus genus has been moved to Mycenaceae instead of Tricholomataceae.

Physalacriaceae

Cyptotrama asprata has been placed in Physalacriaceae instead of Marasmiaceae.

Physalacriaceae

Hymenopellis furfuracea has been placed in Tricholomataceae instead of Physalacriaceae.

Physaraceae

Fuligo septica has been changed to Fuligo septica var. septica.

Polyporaceae

Favolus alveolaris has been changed to Neofavolus alveolaris. Lenzites betulina has been changed to Lenzites betulinus. Polyporus melanopus has been changed to Picipes melanopus. Polyporus squamosus has been changed to Cerioporus squamosus. Polyporus varius has been changed to Cerioporus varius.

Physaraceae

Parasola auricomus has been changed to Parasola auricoma.

Pterulaceae

Radulomyces copelandii has been changed to *Radulodon copelandii* which is placed in Pterulaceae instead of Thelephoraceae.

Sebacinaceae

Tremellodendron schweinitzii has been changed to *Sebacina schweinitzii* which is placed in Sebacinaceae instead of Exidiaceae.

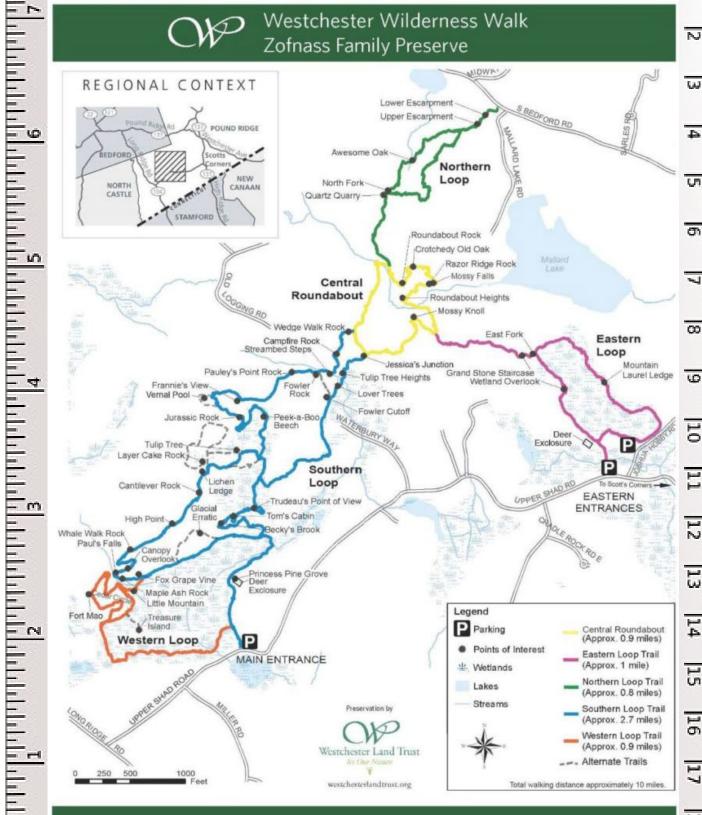
Field Tools

Use these tools to best record measurements of fungi fresh in the field: an english ruler(left), or, if you prefer, a metric ruler(right), as well as a map of the property(below).

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