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Annotated Checklist of the Myxomycetes (Slime Molds) Observed at the Gordon Natural Area West Chester University, PA) - Version I

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Annotated Checklist of the Myxomycetes (Slime Molds) Observed at the Gordon Natural Area West Chester University, PA) - *Version I*

Description

This checklist was compiled from Gordon Natural Area (GNA) Staff fieldwork during 2017-2020, augmented by photos from students and visitors to the GNA. The checklist contains 34 species in 18 Genera and 11 Families.

Common Names

Common names marked with an asterisk are those that were 'assigned' to a species by GNA staff.

'Monthly Presence'

Data were taken from four sources: 1) fieldwork in the GNA; 2) the mycological literature; 3) field trip data from the New Jersey Mycological Association, New York Mycological Society, and the Western Pennsylvania Mushroom Club (see References); and, 4) observations in iNaturalist for Pennsylvania and six 'nearby' states: Connecticut, Delaware, Maryland, New Jersey, New York, and Ohio; (Data last updated: 7/7/2020).

Associated Plants'

GNA data are from field observations from 2017 to present. 'Literature' data were primarily taken from the USDA National Fungus Collection's Fungus-Host database (<https://nt.ars-grin.gov/fungalatabases/fungushost/fungushost.cfm>), supplemented by a small number of observations from the literature. Species in red are non-native to Pennsylvania.




Key:

Years*: Years in which the species was noted in the GNA.




******: **WPAMC**: Western Pennsylvania Mycology Club; **NJMA**: New Jersey Mycological Association; **NYMS**: New York Mycological Society

Key to Monthly 'Presence'

From the Literature

-  Definitively identified as being present during that month
-  Sometimes present during that month
-  'Over-winters'

From Local and Regional Observations

-  Observation from the WPAMC, NJMA, and NYMS**
-  Observation from iNaturalist.org
-  Observed in the GNA

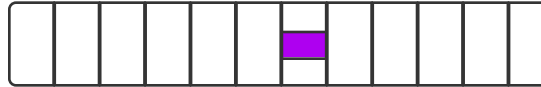


Species

January
February
March
April
May
June
July
August
September
October
November
December

Ecological Niche

Cribraria Indet. (No Common Name)



Year Noted: 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Didymiaceae/Physaraceae

Physarales Indet. #1. (No Common Name)

Year Noted: 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Growing on unidentified bryophytes.

Physaraceae

Physarum cf. *didermoides* (No Common Name)



Year Noted: 2017

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* No Host Data Found

Physarum globuliferum (No Common Name)



Year Noted: 2018

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* Growing on a Hickory nut husk



Species

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February
March
April
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December

Ecological Niche

Physarum Indet. #1. (No Common Name)

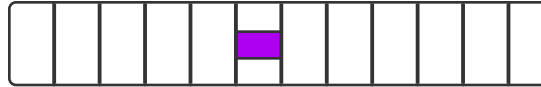


Year Noted: 2018

Identified by: N. Ritter (from photo). Noted By: P. Vermeulen.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Physarum Indet. #2. (No Common Name)

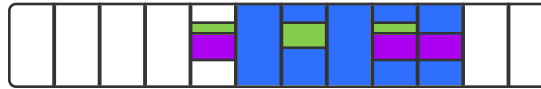


Year Noted: 2019

Identified by: F. Speigel (photos on Facebook). Noted By: P. Vermeulen.

Associated With: *Observed at the GNA:* Growing on a decorticated area of a large, fallen Tulip Tree

Physarum polycephalum (Many-headed Slime)



Years Noted: 2017; 2018; 2019

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* No Host Species That Occur in Pennsylvania

Physaridae

Fuligo septica var. *septica* (Dog Vomit Slime Mold)



Years Noted: 2017; 2018; 2019

Identified by: A. Hodowanec. Also noted by: N. Ritter; M. Beatty; J. Schedlbauer; B. Dowart.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Reticulariidae



Species

January
February
March
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December

Ecological Niche

Reticularia lycoperdon (Silver Hand)



Years Noted: 2017; 2018; 2019; 2020

Identified by: N. Ritter. Also noted by: P. Vermeulen; M. Beatty.

Associated With: *Observed at the GNA:* American Beech; Decorticated Hardwood

Stemonitidaceae

Brefeldia maxima (Tapioca Slime)

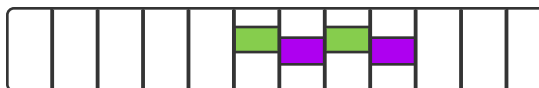


Year Noted: 2018

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* No Host Data Found

Comatricha typhoides (No Common Name)



Years Noted: 2018; 2019

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* No Host Species That Occur in Pennsylvania

Lamproderma cf. violaceum (No Common Name)



Year Noted: 2018

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Stemonitis fusca (Chocolate Tube Slime)



Year Noted: 2018

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* Balsam Fir; Balsam Poplar; **Ivyleaf Morning-Glory**; Jack Pine; **Norway Spruce**; Oak; **Scots Pine**; **Sycamore Maple**

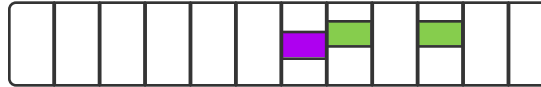


Species

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Ecological Niche

Hemitrichia Indet. #2.



Year Noted: 2018

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Hemitrichia serpula (Pretzel Slime)

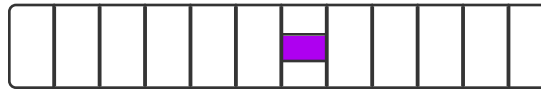


Years Noted: 2018; 2019

Identified by: N. Ritter. Also noted by: A. Rivellini.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* Birch; Hickory; Oak

Metatrichia cf. floriformis (Kukkatakkunen: Finland)



Year Noted: 2018

Identified by: N. Ritter. Also noted by: P. Vermeulen.

Associated With: *Observed at the GNA:* American Beech; Cherry; Northern Red Oak; Decorticated Hardwood. *From the Literature:* No Host Data Found

Metatrichia vesparium (Wasp's Nest Slime Mold)



Years Noted: 2018; 2019; 2020

Identified by: N. Ritter. Also noted by: P. Vermeulen; M. Beatty; A. Rivellini.

Associated With: *Observed at the GNA:* American Beech; Tulip Poplar; Decorticated Hardwood. *From the Literature:* Beech; Oak; **Sycamore Maple**

Perichaena depressa (Flagstone Slime Mold*)



Years Noted: 2018; 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood; Northern Red Oak; Tulip poplar

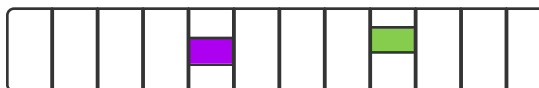


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Ecological Niche

Trichia cf. decipiens (No Common Name)



Year Noted: 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Trichia favoginea (Yellow Egg-shaped Slime Mold)



Year Noted: 2018

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Trichia scabra (Saffron Soldiers*)



Years Noted: 2018; 2019

Identified by: N. Ritter. Also noted by: A. Rivellini.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Trichia varia (No Common Name)



Year Noted: 2018

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Tubiferaceae

Lycogala epidendrum (Wolf's Milk Slime)



Years Noted: 2017; 2018; 2019; 2020

Identified by: N. Ritter. Also noted by: P. Vermeulen; M. Beatty; A. Rivellini; J. Kline; N. Long; A². Rivellini; D. Mandato.

Associated With: *Observed at the GNA:* Decorticated Hardwood; Northern Red Oak. *From the Literature:* Austrian Pine; Green Alder; Norway Spruce; Sycamore Maple; White Spruce



Lycogala flavofuscum (Dark Yellow Lycogala)



Years Noted: 2018; 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Reticularia splendens (Réticulaire Splendide)

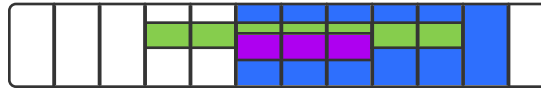


Year Noted: 2019

Identified and noted by: N. Ritter.

Associated With: *Observed at the GNA:* Decorticated Hardwood

Tubifera ferruginosa (Raspberry Slime Mold)



Years Noted: 2012; 2013; 2017; 2018; 2019; 2020

Identified by: N. Ritter. Also noted by: W. Ricci; M. Beatty; P. Vermeulen; A. Rivellini.

Associated With: *Observed at the GNA:* Decorticated Hardwood. *From the Literature:* Scots Pine



Literature Used in Myxomycete Identification

Barron, G. 2014. *Mushrooms of Northeast North America*. Partners Publishing and Lone Pine Media Productions, Edmonton, Canada. 336 pp.

Elliot, T. F. and S. L. Stephenson. 2018. *Mushrooms of the Southeast*. Timber Press, Portland, OR. 407 pp.

Farr, M.L., E.T. Cawley, J. Bamrick, and W.G. Jaques. 1981. *How To Know The True Slime Molds*. Wm. C. Brown Company Publishers. Dubuque, IA. 132 pp.

Katsaros, P. 1989. *Illustrated Guide to Common Slime Molds*. Mad River Press, Eureka, CA. 66 pp.

Lincoff, G. H. 1981. *National Audubon Society Field Guide to North American Mushrooms*. Alfred A. Knopf/Chanticleer Press, New York, NY. 926 pp.

Lincoff, G. H. and G. Pacioni. 1981. *Simon and Schuster's Guide to Mushrooms* Simon and Schuster, Inc., New York, NY. 511 pp.

Lloyd, S. 2014. *Where the Slime Mould Creeps*. Tympanocryptis Press, Birralee, Tasmania, AU. 112 pp.

Niblett, C. 2017. *The Curious Observer's Guide to Slime Molds of U.C. Santa Cruz and Beyond*. UCSC Natural Reserves, Santa Cruz, CA. 77 pp.

O'Reilly, P. 2016. *Fascinated by Fungi: Exploring the History, Mystery, Facts, and Fiction of the Underworld Kingdom of Mushrooms*, 2nd Edn. First Nature, Llandysul, UK. 443 pp.

Stephenson, S.L. and H. Stempen. 2000. *Myxomycetes: A Handbook of Slime Molds*. Timber Press. Portland, OR. 183 pp.

Online Resources Used in Myxomycete Identification

https://www.messiah.edu/Oakes/fungi_on_wood/index.htm

<http://www.mushroomexpert.com/>

<https://www.mycoquebec.org//bienvenue.php>

<http://www.svims.ca/council/matchmaker.htm>

Mushroom Clubs Who's Foray Checklists Were Incorporated Into the Regional Species List

New Jersey Mycological Association. <http://www.njmyco.org/>

New York Mycological Society. <http://newyorkmyc.org/>



Western PA Mushroom Club. <https://wpamushroomclub.org/>

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