

A PRELIMINARY LIST OF THE MYXOMYCETES OF EASTERN TENNESSEE

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The collections here reported were taken during the regular college years (September to June) from 1927 to 1930, inclusive. The regions visited included chiefly Knox County, the Great Smoky Mountains, and the Cumberland Mountains. Extension of these studies throughout the summer season and to other sections of the State would doubtless yield many additional species. The list is, therefore, regarded as preliminary.

The works of both Macbride (1922) and the Listers (1925) were consulted in all specific determinations. In any instance where these authors were not in agreement, the description and nomenclature which were more applicable were chosen. Each such preference is shown in the list by an initial in parenthesis following the specific name.

Some general notes on distribution may be interesting. It would seem that members of the *Physaraceae* are of less frequent occurrence in eastern Tennessee than in more northern climates. Representatives of the *Trichiaceae* were found most commonly; *Trichia favoginea* was the single species most frequently encountered and more abundantly noted in both spring and autumn months. *Lycogala epidendrum* was also common. According to Macbride (1922), *Trichia lateritia* is apparently geographically limited to the Pacific Coast, but specimens found in Tennessee agree with his description. Miss Lister comments on the whale-bone habitat of *Fuligo septica* var. *rufa* in the British Museum of Natural History; the writer made an interesting collection of this type on the jawbone of a sheep skeleton.

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Subclass I—EXOSPOREAE

Family 1. Ceratiomyxaceae

Ceratiomyxa fruticulosa (Meull.) Macbr.

Subclass II—ENDOSPOREAE

Family 2. Physaraceae

Badhamia macrocarpa (Ces.) Rost.
Physarum cinereum (Batsch) Pers.
Physarum columbinum (Rost.) Sturgis (L)
Physarum nodulosum Cke. & Balf. (M)

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- Physarum nutans Pers.
Physarum polycephalum Schw.
Physarum pulcherrimum Berk. & Rav.
Physarum sinuosum (Bull.) Weinm.
Physarum tenerum Rex
Physarum vernum Somm.
Fuligo septica GMC
Fuligo septica (Linn.) Gmel. var. ovata (Schaeff.) Pers. (M)
Fuligo septica (Linn.) Gmel. var. rufa Pers.
Leocarpus fragilis (Dickson) Rost.
Diderma hemisphericum (Bull.) Hornem.
Diderma radiatum (Linn.) Morg.
Diderma radiatum (Linn.) Morg. var. umbilicatum Meyl. (L)
Diderma testaceum (Schrad.) Pers.
Diachaea leucopodia (Bull.) Rost.

Family 3. **Didymiaceae**

- Didymium melanospermum (Pers.) Macbr.
Didymium squamulosum Fr.

Family 4. **Stemonitaceae**

- Stemonitis ferruginea Ehrenb. (L)
Stemonitis fusca Roth
Stemonitis splendens Rost.
Comatricha aequalis Peck (M)
Comatricha nigra (Pers.) Schroet. (L)
Comatricha typhoides (Bull.) Rost.
Lamproderma violaceum (Fries) Rost.

Family 5. **Amaurochaetaceae**

- Brefeldia maxima (Fries) Rost.

Family 6. **Heterodermaceae**

- Cribraria dictydioides Cke. & Balf. (M)
Cribraria macrocarpa Schrad.
Cribraria purpurea Schrad.
Cribraria rufa (Roth) Rost.
Cribraria tenella Schrad.
Dictydium cancellatum (Batsch) Macbr.

Family 7. **Tubulinaceae**

- Tubifera ferruginosa (Batsch) Gmel.

Family 8. **Reticulariaceae**

- Reticularia lycoperdon Bull.

Family 9. **Lycogalaceae**

- Lycogala epidendrum (Buxb.) Fries

Family 10. **Trichiaceae**

- Trichia affinis* deBary (L)
Trichia botrytis Pers.
Trichia contorta (Ditmar) Rost.
Trichia decipiens (Pers.) Macbr.
Trichia erecta Rex
Trichia favoginea (Batsch) Pers.
Trichia lateritia Léy. (M)
Trichia subfusca Rex
Trichia varia Pers.
Oligonema flavidum (Peck) Mass.
Calonema aureum Morgan
Hemitrichia abietina Lister (L)
Hemitrichia clavata (Pers.) Rost. (M)
Hemitrichia serpula (Scop.) Rost.
Hemitrichia stipitata (Mass.) Macbr. (M)
Hemitrichia vesparium (Batsch) Macbr.

Family 11. **Arcyriaceae**

- Arcyria cinerea* (Bull.) Pers.
Arcyria cinerea (Bull.) Pers. var. *digitata* G. Lister
Arcyria denudata (Linn.) Wettstein
Arcyria digitata (Schw.) Rost. (M)
Arcyria ferruginea Sauter
Arcyria incarnata Pers. (M)
Arcyria stipitata Lister
Lachnobolus globosus (Schw.) Rost. (M)

LITERATURE CITED

- Lister, Arthur. 1925. *The Mycetozoa*. 3rd ed., revised by Gulielma Lister. British Museum of Natural History, London.
 Macbride, T. H. 1922. *The North American Slime-Moulds*. Revised edition. The Macmillan Company, New York.