

MYXOMYCETES DATA FROM HUNGARY

by

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Data of material collected mainly by the second author from many habitats on different areas in Hungary during the last decade are presented. We relied mostly on the monograph of Lister (1925) but we also considered Krzemieniewská's nomenclature (1960) differing slightly from that of Lister. As a result of our work, occurrences of 55 species and 3 varieties with 207 habitat data are reported.

Our data are compared with G. Moesz's fundamental work (1925) and with all papers published since that time containing data about *Myxomycetes* found in Hungary (cf. references). Thus, it can be stated that the occurrence of 9 species and 3 varieties in Hungary was referred to in this paper for the first time.

Names of the collectors are only mentioned if the material in question has not been collected by the second author. The relevant material can be found in the herbarium of the Botanical Department, Museum of Natural History, Budapest.

Arcyria cinerea (Bull.) Pers.

Castanea sativa Mill., on dead wood. Felsőzsidi-szólóhegy near Várvölgy, 27. 7. 1967. — *Fagus silvatica* L., on dead wood. Near Hárskút, Bakony Mountains, 4. 7. 1969. — On decayed wood. Hidasvölgy near Komló, Mecsek Mountains, 17. 7. 1970, coll.: A. Vass and S. Tóth.

Arcyria denudata Wetst.

Tilia argentea Desf., on dead wood. Near Lipótfa, 17. 8. 1963. — *Tilia* sp., on dead wood. Near Bószénfa, 9. 6. 1964. — On dead bark. Apátkúti-völgy near Visegrád, 16. 7. 1964. — *Fagus silvatica* L., on dead wood. Pilis near Pilisszentkereszt, 26. 5. 1965. — *Fagus silvatica* L., on dead wood. Szentláslóhegy near Pilisszentlásló, 8. 9. 1966, coll.: S. Tóth and Cs. Dobolyi. — *Fagus silvatica* L., on dead wood. Szárazvölgy near Ómassa, Bükk Mountains, 26. 9. 1966. — On decayed

bark. Kékes-tető, Mátra-Mountains, 11. 10. 1966. — *Fagus silvatica* L., on decayed wood. Karikástető near Sümegprága, 27. 7. 1967. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 26. 10. 1967. — On dead wood. Kabhegy near Ajka, Bakony Mountains, 11. 9. 1968. — *Quercus* sp., on decayed wood. Papod-hegy near Hárskút, Bakony Mountains, 14. 10. 1968. — *Fagus silvatica* L., on dead wood. Réé-erdő near Hárskút, Bakony Mountains, 4. 7. 1969. — On decayed bark. Somlyó-hegy near Fót, 30. 7. 1970.

Arcyria ferruginea Sauter

On decayed wood. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963. — *Castanea sativa* Mill., on dead wood. Near Nagymaros, 19. 11. 1964.

Arcyria incarnata Pers.

On dead wood. Apátkúti-völgy near Visegrád, 16. 7. 1964.

Arcyria nutans (Bull.) Grev.

Pinus nigra Arn., on decayed wood. Csúcshegy near Budapest, 8. 7. 1963. — On decayed bark. Császárvölgy near Királykunyhó-órház by Visegrád, 26. 5. 1964. — On decayed wood. Kopasz-oldal near Nagykovácsi, 1. 7. 1965, coll.: S. Tóth and Cs. Dobolyi. — *Pinus silvestris* L., on dead wood. Near Fenyőfő, Bakony Mountains, 14. 6. 1966. — *Pinus silvestris* L., on decayed wood. Gödöllő, 9. 6. 1968.

Ceratiomyxa fruticulosa Macbr.

On dead wood. Near Lipótfa, 17. 8. 1963. — On decayed wood. Apátkúti-völgy near Visegrád, 16. 7. 1964. — On dead wood. Petnyáki-völgy near Pécs, Mecsek Mountains, 30. 7. 1966, coll.: A. Vass and S. Tóth.

Comatricha aequalis Peck

On dead wood. Keserűs-hegy near Visegrád, 6. 9. 1963. — On decayed wood. Apátkúti-völgy near Visegrád, 16. 7. 1964. — *Fagus silvatica* L., on dead wood. Bányvölgy near Nagyvisnyó, Bükk Mountains, 24. 7. 1969, (the first data from Hungary).

Comatricha laxa Rost.

Fagus silvatica L., on dead wood. Bartoskő near Mályinka, Bükk Mountains, 25. 7. 1969. — On decayed wood. By Somberek-séd near Bakonykoppány, Bakony Mountains, 2. 10. 1970, (reported here for the first time from Hungary).

Comatricha nigra (Pers.) Schröt.

On dead wood. Gödöllő, 15. 11. 1964. — *Fagus silvatica* L., on decayed wood. Lackóhegy near Kishuta, Zempléni Mountains, 25. 9. 1965, coll.: T. Simon. — *Fagus silvatica* L., on decayed wood. Szentlászló-hegy near Pilisszentlászló, 8. 9. 1966, coll.: S. Tóth and Cs. Dobolyi.

Comatricha tenerrima G. Lister

Populus italicica (Duroi) Mönch., on dead wood. Gödöllő, 27. 9. 1964 (reported here for the first time from Hungary).

Comatricha typhoides (Bull.) Rost.

On dead wood. Füstöskő-bérc near Bánkúti-menedékház, Bükk Mountains, 6. 7. 1961. — On dead wood. Lackóhegy near Kishuta, Zempléni Mountains, 28. 7. 1965, coll.: G. Bohus and M. Babos. — *Fagus silvatica* L., on dead wood. Near Bélapátfalva, 23. 9. 1965, coll.: T. Simon. — On dead wood. Kabhegy near Ajka, Bakony Mountains, 11. 9. 1968. — On decayed wood. Miklóspálhegy near Bánd, Bakony Mountains, 27. 9. 1968. — *Fagus silvatica* L., on dead wood. Near Farkasyepű, Bakony Mountains, 21. 7. 1970.

Craterium leucocephalum (Pers.) Ditm.

On decayed bark. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963.

Craterium minutum (Leers) Fr.

Castanea sativa Mill., on decayed cupules and inflorescences. Felsőzsidi-szőlőhegy near Várvölgy, 27. 7. 1967. — On decayed bark. Miklóspálhegy near Bánd, Bakony Mountains, 27. 9. 1968.

Cibraria argillacea Pers.

On dead wood. Near Lipótfa, 17. 8. 1963. — *Castanea sativa* Mill., on dead wood. Near Nagymaros, 19. 11. 1964, coll.: Cs. Dobolyi.

Cibraria intricata Schrad.

Picea abies (L.) Karst., on decayed wood. Jávorkút near Ómassa, Bükk Mountains, 3. 8. 1962 (reported here for the first time from Hungary).

Cibraria tenella Schrad.

On decayed wood. Zobó-hegy near Nagyvisnyó, Bükk Mountains, 5. 7. 1961 (second occurrence from Hungary).

Dictydiaethalium plumbeum Rost.

On dead wood. Petnyáki-völgy near Pécs, Mecsek Mountains, 1. 7. 1966, coll.: A. Vass and S. Tóth. — *Alnus glutinosa* (L.) Gaertn., on dead wood. Bánvölgy near Nagyvisnyó, Bükk Mountains, 24. 7. 1969.

Dictydiump cancellatum (Batsch) Macbr.

On dead wood. Jávorkút near Ómassa, Bükk Mountains, 7. 7. 1961. — *Picea abies* (L.) Karst. on decayed wood. Jávorkút near Ómassa, Bükk Mountains, 3. 8. 1962. — *Tilia argentea* Desf., on decayed wood. Near Lipótfa, 17. 8. 1963, coll.: A. Borhidi and S. Tóth.

Diderma spumariooides Fr.

On decaying parts of various plants. Gödöllő, 22. 6. 1965.

Didymium melanospermum (Pers.) Macbr.

Zea mays L., on decaying leaves. Gödöllő, 2. 6. 1968.

Didymium squamulosum (Alb. et Schw.) Fr.

Hyssopus officinalis L., on dead stems. Gödöllő, 6. 9. 1960. — *Typha latifolia* L., on decaying leaves. Csúnya-völgy near Pécel, 25. 4. 1968.

Didymium vaccinum (Durr. et Mont.) Buchet

Zea mays L., on dead culms and leaves. Gödöllő, 2. 6. 1968 (reported here for the second time from Hungary; the first occurrence was on dung).

Fuligo cinerea Morg.

Polygonum arenarium W. et K., on living stems. Gödöllő, 11. 8. 1968.

Fuligo septica Gmel.

Pinus silvestris L., on dead bark. Fenyőfő, Bakony Mountains, 21. 7. 1961. — *Fagus sylvatica* L., on dead bark. Ördög-patak-völgye near Rostalló, Zempléni Mountains, 19. 8. 1962. — *Populus* sp., on dead stumps. Érd near Budapest, 3. 6. 1964. — On sawdust. Kaszó near Szenta, 8. 6. 1964. — On dead stump. Baktalórántházi-erdő near Baktalórántháza, 2. 9. 1964. — *Quercus* sp., on decaying leaves. Ósva-völgy near Telkibánya, Zempléni Mountains, 27. 9. 1966. — *Fagus sylvatica* L., on dead wood. Tátika near Zalaszántó, 25. 7. 1967. — On dead stumps. Kabhegy near Ajka, Bakony Mountains, 11. 9. 1968. — On dead wood. Bánvölgy near Nagyvisnyó, Bükk Mountains, 24. 7. 1969. — On dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Hemitrichia clavata Rost.

On dead wood. Near Lipótfa, 17. 8. 1963. — *Tilia argentea* Desf., on dead wood. Near Lipótfa, 17. 8. 1963, coll.: A. Borhidi and S. Tóth. — *Quercus* sp., on dead wood. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963. — *Tilia cordata* Mill., on dead wood. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead wood. Sárkánylyuk-völgy near Vérteskozma, Vértes Mountains, 26. 9. 1965, coll.: A. Horánuszky. — On decaying stump. Near Bakonybél, Bakony Mountains, 7. 11. 1965, coll.: Cs. Dobolyi. — *Fagus silvatica* L., on decayed wood. Szentlászlóhegy near Pilisszentlászló, 8. 9. 1966, coll.: S. Tóth and Cs. Dobolyi. — On dead wood. Near Máriabesnyő, 29. 3. 1968. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 27. 9. 1968. — *Fagus silvatica* L., on dead wood. Near Farkasgyepű, Bakony Mountains, 21. 8. 1970. On dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Hemitrichia serpula (Sop.) Rost.

On dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970 (reported here for the first time from Hungary).

Hemitrichia vesparium (Batsch) Macbr.

Tilia argentea Desf., on dead wood. Dennai-erdő near Lipótfa, 17. 8. 1963, coll.: A. Borhidi and S. Tóth. — *Tilia* sp., on dead wood. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963. — On decaying wood. Near Vérteskozma, Vértes Mountains, 25. 10. 1963. — *Tilia cordata* Mill., on dead bark. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead wood. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead wood. Pazsag-völgy near Répáshuta, Bükk Mountains, 3. 11. 1964. — On dead wood. Nagymána near Diósjenő, Börzsöny Mountains, 11. 8. 1966. — *Fagus silvatica* L., on decayed wood. Szentlászlóhegy near Pilisszentlászló, 8. 9. 1966. — On decayed wood. Rée-erdő near Hárskút, Bakony Mountains, 28. 10. 1967. — On dead wood. Öregbükk near Kőhányás-puszta, Vértes Mountains, 9. 5. 1968. — On dead wood. Barok-völgy near Királyszállás, Bakony Mountains, 25. 9. 1968. — On decaying wood. Miklóspálhegy near Bánd, Bakony Mountains, 27. 9. 1968. — *Fagus silvatica* L., on dead wood. Bánvölgy near Nagyvisnyó, Bükk Mountains, 24. 7. 1969. — *Carpinus betulus* L., on dead wood. Near Farkasgyepű, Bakony Mountains, 21. 7. 1970. — On decaying wood and bark. Szarvadárok near Bakonybél, Bakony Mountains, 1. 10. 1970. — On dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Lamproderma columbinum Rost. v. *gracile* G. Lister

On decaying bark of firewood. Budapest, 4. 7. 1968, coll.: A. Egyed (reported here for the first time from Hungary).

Lamproderma scintillans (Berk. et Br.) Morgan

On decaying leaves of trees. Pazsag-völgy near Répáshuta, Bükk Mountains, 3. 11. 1964 (reported here for the first time from Hungary).

Leocarpus fragilis (Dickson) Rost.

On decaying leaves and twigs. Near Nadap, Velencei Mountains, 3. 7. 1966, coll.: M. Babos and E. Véssey.

Licea minima Fr.

Fagus silvatica L., on dead wood. Bükköspatak-völgye near Szentendre, 14. 9. 1964 (reported here for the first time from Hungary).

Lycogala epidendrum Fr.

Quercus sp., on decaying bark. Near Kicscehi, 10. 3. 1959, coll.: Á. Károlyi. — *Tilia argentea* Desf., on dead wood. Near Lipótfa, 17. 8. 1963. — On dead wood. Near Lipótfa, 17. 8. 1963. — On decayed wood. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963. — On dead wood. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead stump. Szigligeti-arboretum: Szigliget, 7. 5. 1964. — On dead wood. Császár-völgy near Királykunyhó-őrház not far from Visegrád, 27. 5. 1964. — On dead wood. Hosszúsom near Répáshuta, Bükk Mountains, 3. 11. 1964. — *Alnus glutinosa* (L.) Gaertn., on dead wood. Dabas, 12. 5. 1965. — On decaying bark. Near Bakonybél, Bakony Mountains, 7. 11. 1965, coll.: Cs. Dobolyi. — *Pinus nigra* Arn., on dead trunk, Füzéri-várhegy near Füzér, Zempléni Mountains, 28. 9. 1966. — *Fagus silvatica* L., on dead trunk. Réé-erdő near Hárskút, Bakony Mountains, 28. 9. 1967. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 27. 9. 1968. — On dead wood. Hidas-völgy near Komló, Mecsek Mountains, 17. 7. 1970. — On dead wood. Szarvadárok near Bakonybél, Bakony Mountains, 1. 10. 1970. — Ob dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Lycogala flavo-fuscum (Ehrb.) Rost.

On decayed trunk. Near Nadap, Velencei Mountains, 3. 7. 1966, coll.: M. Babos and E. Véssey. — *Fagus silvatica* L., on decayed trunk. Esztergáli-völgy near Hárskút, Bakony Mountains, 26. 10. 1967, coll.: L. Szemeré (reported here for the first time from Hungary).

Ophiotheca wrightii Berk. et Curt.

Populus italicica (Durr.) Mönch., inside of decaying bark. Gödöllő, 12. 10. 1966 (till now occurred in Hungary on dung only).

Perichaena corticalis (Batsch) Rost.

On horse dung. Kunbaracs, 6. 10. 1969.

Physarum bivalve Pers.

Castanea sativa Mill., on decaying leaves. Felsőzsidi-szőlőhegy near Várvölgy, 27. 7. 1967.

Physarum cinereum (Batsch) Pers.

Castanea sativa Mill., on decaying inflorescences. Felsőzsidi-szőlőhegy near Várvölgy, 27. 7. 1967.

Physarum compressum Alb. et Schw.

On *Ceratopteris thalictroides* Brongn. Hortus Botanicus Universitatis, Budapest, —. 10. 1909, coll.: S. Mágocsy-Dietz (?).

Physarum dideroides (Ach.) Rost.

On dead bark. Hortus Botanicus Universitatis, Budapest: in the green-house of orchids, —. 2. 1889, coll.: S. Mágocsy-Dietz (G. Moesz — 1925, col. 133 — reports the same specimen found by the same collector in the Hortus Botanicus Universitatis).

Physarum leucophaeum Fr.

Quercus sp. and *Tilia* sp., on decaying bark and leaves. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963.

Physarum nutans Pers.

On dead wood. Near Lipótfa, 17. 8. 1963. — On decaying plants. Gödöllő, 10. 8. 1968. — *Zea mays* L., on decayed leaves. Gödöllő, 11. 8. 1968.

Physarum psittacinum Ditm.

On dead wood. Kopasz-oldal near Nagykovácsi, 1. 7. 1965, coll.: S. Tóth and Cs. Dobolyi. — On dead wood. By Somberekséde near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Physarum viride (Bull.) Pers.

On decaying plants. Nagyeged near Eger, Bükk Mountains, 6. 7. 1965.

Reticularia lycoperdon Bull.

Pinus silvestris L., on decayed stump. Gödöllő, 11. 8. 1968.

Spumaria spongiosa (Leyss.) Jahn

On dead stems. Bánvölgy near Nagyvisnyó, Bükk Mountains, 5. 7. 1961. — On dead leaves of trees. Zobóhegy near Nagyvisnyó, Bükk Mountains, 5. 7. 1961. — *Fagus silvatica* L., in ramulis vivis. Őserdő near

Tarkő, Bükk Mountains, 6. 7. 1961. — On dead leaves. Kerek-hegy near Ómassa, Bükk Mountains, 7. 7. 1961. — On living stems and culms. Haraszt near Csákvár, Vértes Mountains, 23. 10. 1963. — *Ulmus scabra* Mill., on living leaves and twigs. Péterhegy near Csopak, 20. 9. 1966, coll.: Zs. Debrecezy. — On living plants. Papod near Hárskút, Bakony Mountains, 14. 10. 1968 (about 200 from palm-sized to half a square metre large packs of aethalia).

Spumaria spongiosa (Leyss.) Jahn v. *solida* Lister

On stems and twigs. Síkfőkút near Eger, Bükk Mountains, 7. 7. 1965, coll.: E. Tóth.

Stemonitis ferruginea Ehrenb.

On decaying wood. Őserdő near Tarkő, Bükk Mountains, 6. 7. 1961. — On dead wood. Jávorkút near Ómassa, Bükk Mountains, 7. 7. 1961. — On dead wood. Borovnyák near Ómassa, Bükk Mountains, 2. 8. 1962. — On dead wood. Jávorkút near Ómassa, Bükk Mountains, 3. 8. 1962. — On dead wood. Near Lipótfa, 17. 8. 1963. — *Picea abies* (L.) Karst., on decaying wood. In forests near Szőce, 14. 9. 1966. — *Pinus silvestris* L., on dead wood. Nagyhegy near Zalalövő, 30. 9. 1970.

Stemonitis fusca Roth

On dead wood. Ablakoskő-völgy near Nagyvisnyó, Bükk Mountains 8. 7. 1961. On dead trunk. Zobóhegy near Nagyvisnyó, Bükk Mountains 5. 7. 1961. — On dead wood. Őserdő near Tarkő, Bükk Mountains, 31. 7. 1962. — *Pinus nigra* Arn., on dead wood. Csúcshegy near Budapest, 8. 7. 1963. — On decaying twigs and leaves. Baktalórántházi-erdő near Baktalórántháza, 23. 9. 1963, coll.: A. Horánuszky. — *Tilia* sp., on dead wood. Nagybükk near Csákvár, Vértes Mountains, 24. 10. 1963. — On dead wood. Near Bószénfa, 9. 6. 1964. — Near Dobogókő, Visegrádi Mountains, 14. 9. 1964. — On dead bark. Száraz-völgy near Ómassa, Bükk Mountains, 26. 9. 1966. — On decaying wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Stemonitis fusca Roth v. *rufescens* Lister

Fagus silvatica L., on dead wood. Tátika near Zalaszántó, 25. 7. 1967. (reported here for first time from Hungary).

Stemonitis herbarica Pek

On dead bark. Jávorkút near Ómassa, Bükk Mountains, 7. 7. 1961. (first occurrence from Hungary).

Stemonitis splendens Rost.

On dead wood. Őserdő near Tarkő, Bükk Mountains, 6. 7. 1961. — On dead wood. Füstöskő-bérc near Bánkút, Bükk Mountains, 6. 7. 1961. — On dead wood. Disznóskút near Ómassa, Bükk Mountains, 30. 7. 1962. —

Fagus silvatica L., on dead wood. Őserdő near Tarkő, Bükk Mountains, 31. 7. 1962. — *Tilia* sp., on decayed trunk, Near Bőszénfa, 9. 6. 1964. — *Panellus stipticus* (Bull. ex Fr.) Karst., on dead carpophore and on dead wood. Lackóhegy near Kishuta, Zempléni Mountains, 28. 7. 1965, coll.: G. Bohus and M. Babos. — On dead bark. Near Bakonybél, Bakony Mountains, 7. 11. 1965. coll.: Cs. Dobolyi. — *Fagus silvatica* L., on dead wood. Bánvölgy near Nagyvisnyó, Bükk Mountains, 24. 7. 1969. — On dead wood. By Somberekcséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Trichia affinis De Bary

On dead twigs. Kékestető near Parád, Mátra Mountains, 11. 10. 1966. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 3. 7. 1969. — On dead bark. By Somberekcséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970.

Trichia botrytis Pers.

Tilia sp., on dead bark. Near Bőszénfa, 9. 6. 1964.

Trichia contorta (Ditm.) Rost.

On dead wood. Near Vérteskozma, Vértes Mountains, 25. 10. 1963.

Trichia decipiens Pers.

On decaying trunk. Kékes-tető near Parád, Mátra Mountains, 11. 10. 1966.

Trichia persimilis Karst.

On dead trunk. Near Bakonybél, Bakony Mountains, 7. 11. 1965. coll.: Cs. Dobolyi. — *Fagus silvatica* L., on dead wood. Rée-erdő near Hárskút, Bakony Mountains, 28. 10. 1967.

Trichia scabra Rost.

Tilia argentea Desf., on dead wood. Near Lipótfa, 17. 8. 1963. — On dead wood. Keserűshegy near Visegrád, 6. 9. 1963. coll.: A. Horán-szky and S. Tóth. — On dead wood. Nagybükki near Csákvár, Vértes Mountains, 24. 10. 1963. — *Populus italicica* (Durro) Mönch, on dead wood. Gödöllő, 13. 9. 1964. — *Fagus silvatica* L., on dead wood. Sikáros near Pilisszentkereszt, 14. 9. 1964. — On dead wood. Near Bakonybél, Bakony Mountains, 7. 11. 1965. — *Fagus silvatica* L., on dead wood. Szentlászlóhegy near Pilisszentlászló, 8. 9. 1966, coll.: S. Tóth and Cs. Dobolyi. — On dead wood. Öregbükk near Kőhányás-puszta, Vértes Mountains, 9. 5. 1968. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 27. 9. 1968. coll.: L. Zeller. — On dead wood. Szarvadárok near Bakonybél, Bakony Mountains, 1. 10. 1970.

Trichia varia Pers.

On dead wood. Near Répáshuta, Bükk Mountains, 26. 9. 1963. — *Tilia* sp., on dead wood. Nagybük near Csákvár, Vértes Mountains, 24. 10. 1963. — *Quercus* sp., on dead wood. Nagybük near Csákvár, Vértes Mountains, 24. 10. 1963. — On decaying bark. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead wood. Near Vérteskozma, Vértes Mountains, 25. 10. 1963. — *Tilia* sp. on dead wood. Somlyós near Vérteskozma, Vértes Mountains, 25. 10. 1963. — On dead wood. Near Bakonybél, Bakony Mountains, 7. 11. 1965. coll.: Cs. Dobolyi. — On decaying trunk. Near Bakonybél, Bakony Mountains, 7. 11. 1965, coll.: Cs. Dobolyi (spores 10,5—13,6 μ diam.). — On dead trunk. Near Bakonybél, Bakony Mountains, 7. 11. 1965, coll.: Cs. Dobolyi (spores 11,5—14,7 μ diam.). — On dead wood. Rakottyásbér near Diósjenő, Börzsöny Mountains, 11. 8. 1966. — On dead wood. Esztergáli-völgy near Hárskút, Bakony Mountains, 26. 10. 1967. — *Fagus silvatica* L., on dead wood. Rée-erdő near Hárskút, Bakony Mountains, 28. 10. 1967. — On dead wood. Kabhegy near Ajka, Bakony Mountains, 11. 9. 1968. — On dead wood. Barok-völgy near Királyszállás, Bakony Mountains, 25. 9. 1968. — On dead wood. Miklóspálhegy near Bánd, Bakony Mountains, 27. 9. 1968. — On dead wood. By Somberekséd near Bakonykoppány, Bakony Mountains, 2. 10. 1970. — On dead wood. Szarvadárok near Bakonybél, Bakony Mountains, 1. 10. 1970.

REFERENCES

- Báñhegyi, J. 1938. Additamenta ad cognitionem Phytosarcodinarum Hungariae I. *Borbásia*, 1: 2—4.
- Báñhegyi, J. 1939. Additamenta ad cognitionem Phytosarcodinarum Hungariae II. *Borbásia*, 1: 66—68.
- Krzemieniewska, H. 1960. Sluzowce Polski na tle flory sluzowcow europejskich 313 p. Warszawa.
- Lister, A. 1925. A monograph of the Mycetozoa 296 p. London.
- Moesz, G. 1925. Fungi Hungariae I. Myxomycetes. *Folia Cryptogamica*, 1: 111—200.
- Moesz, G. 1942. Budapest és környékének gombái. Kir. Magy. Természettud. Társulat, 320 p.
- Tóth, S. 1954. Adatok Magyarország mikroszkopikus gombáinak ismeretéhez I. Botanikai Közlemények 45: 241—245.
- Tóth, S. 1963. Data to the knowledge of the coprophilous microscopic fungi in Hungary. I. Ann. Hist.-Nat. Mus. Nat. Hung. Pars Bot. 55: 181—185.
- Tóth, S. 1964. Mikrospische Pilze aus dem Bakony-Gebirge. Fragmenta Botanica 3: 1—13.
- Tóth, S. 1965. Data to the knowledge of the coprophilous microscopic fungi in Hungary. II. Ann. Hist.-Nat. Mus. Nat. Hung. Pars Bot. 57: 149—157.
- Tóth, S. 1967. Data to the knowledge of the coprophilous microscopic fungi in Hungary III. Ann. Hist.-Nat. Mus. Nat. Hung. Pars Bot. 59: 117—123.
- Vass, A. — Tóth, S. 1959. Mikroszkopikus gombák a Mecsek-hegységből. II. Janus Pannonius Múzeum Évkönyve. 45—54.
- Zeller, L. — Tóth, S. 1960. Mikroszkópikus gombák a Bükk-hegységből. Botanikai Közlemények 48: 228—231.