

REVIEW OF THE MYXOMYCETES OF HUNGARY

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A checklist of Myxomycetes species collected in Hungary is presented with a total of 164 species and 5 varieties enumerated. It includes both published data and unpublished records from the collection of the Hungarian Natural History Museum.

Key words: enumeration, Hungary, Myxomycetes

INTRODUCTION

In the first part of his critical, serial publication about the fungi of Hungary, Gusztáv Moesz Hungarian mycologist has discussed the species of Myxomycetes (MOESZ 1926). In this work Moesz enumerated 101 species of which 49 were reported from the present territory of Hungary. The last 80 years, which have brought considerable taxonomic and nomenclatural changes, provided many new data from Hungary and these recent acquisitions are available for re-assessment.

The aim of the present study is to summarise the data concerning Myxomycetes species of Hungary in a form, which reflects the advances in the field of nomenclature.

RESULTS

The present checklist enumerates 164 species and 5 varieties. It includes data published in various papers and unpublished records from the collection preserved in the Botanical Department of the Hungarian Natural History Museum (BP). In the collection of BP altogether 1,642 capsules of Myxomycetes collected in the present territory of Hungary are deposited. The most frequent species found in Hungary are listed in Table 1. Based on the collection data *Lycogala epidendrum* is the most frequently occurring

species of Myxomycetes in Hungary. These data also reveal that the 21 most frequent species comprise more than 60% of the whole collection. On the other hand, nearly half of the species are known from a single locality or a few sites only.

The species names included in this paper are arranged in alphabetic order. Each entry begins with the current name of the taxon (in boldface). Synonym names, if any, are in brackets. In general, only those synonym names are given which were published by Hungarian authors earlier. A list of synonym names is presented at the end of this paper in the Appendix.

Sándor Tóth, who worked for many years in the Museum, enriched the fungus collection with invaluable materials. A considerable part of the Myxomycetes material was collected and identified (or collected by others and identified) by him. I should like to dedicate this paper for his 90th birthday.

Table 1. The number and main substrata of the most frequent species in the collection of the Hungarian Natural History Museum (BP)

Species	Number	Substrata
<i>Lycogala epidendrum</i>	100	Wood
<i>Trichia varia</i>	99	Wood
<i>Trichia scabra</i>	85	Wood
<i>Metatrichia vesparium</i>	84	Wood
<i>Fuligo septica</i>	73	Wood, leaf
<i>Arcyria denudata</i>	68	Wood
<i>Hemitrichia clavata</i>	64	Wood
<i>Stemonitis fusca</i>	48	Wood, leaf
<i>Perichaena depressa</i>	40	Dung, leaf, wood
<i>Physarum nutans</i>	40	Wood, leaf
<i>Trichia decipiens</i>	36	Wood
<i>Ceratiomyxa fruticulosa</i>	34	Wood
<i>Perichaena corticalis</i>	31	Dung, leaf, wood
<i>Stemonitis splendens</i>	29	Wood
<i>Arcyria cinerea</i>	29	Wood, leaf, stem
<i>Arcyria nutans</i>	29	Wood
<i>Stemonitopsis typhina</i>	29	Wood
<i>Comatricha nigra</i>	28	Wood
<i>Craterium minutum</i>	24	Leaf, wood
<i>Didymium squamulosum</i>	23	Dung, leaf, stem, wood
<i>Trichia favoginea</i>	22	Wood
	1,015	

LIST OF THE SPECIES

- Amaurochaete atra* (Alb. et Schwein.) Rostaf. (= *Amaurochaete fuliginosa* (Sow.) Macbr.) – MOESZ (1942), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Arcyodes incarnata* (Alb. et Schwein.) O. F. Cook (= *Lachnobolus congestus* (Sommerf.) Lister) – BP 32575, on wood of *Fagus sylvatica* L., Óserdő, Bükk Mts, 27.10.1959, leg. et det. Tóth; BP 81530, on leaves of *Festuca amethystina* L., Nagy-Szénás, Nagykovácsi, 09.04.1981, leg. et det. Tóth; BP 86819, on *Pinus nigra* Arn., Kis-Szénás, Pilis-szentiván, 17.06.1982, leg. et det. Tóth.
- Arcyria cinerea* (Bull.) Pers. (= *Arcyria albida* Pers.) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938, 1943), TÓTH (1964), VASS (1972, 1981, 1983), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005), RÉVAY and GÖNCZÖL (2008).
- Arcyria denudata* (L.) Wettst. (= *Arcyria punicea* Pers.) – MOESZ (1926, 1942), HOLLÓS (1913, 1933), BÁNHEGYI (1938, 1943), VASS and TÓTH (1959), VASS (1961, 1962, 1972, 1977, 1981, 1983), TÓTH (1954, 1964, 1994), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Arcyria ferruginea* Saut. – TÓTH (1954), VASS (1977), ZELLER and TÓTH (1971, 1979), BODONYI and TÓTH (2004).
- Arcyria globosa* Schwein. – BP 75442, on *Alnus glutinosa* (L.) Gaertn., Kismaros, Börzsöny Mts, 08.04.1981, leg. et det. Révay and Gönczöl.
- Arcyria incarnata* (Pers.) Pers. (= *Arcyria adnata* (Batsch) Rostaf.) – MOESZ (1926, 1942), HOLLÓS (1933), BÁNHEGYI (1938, 1943), ZELLER and TÓTH (1971, 1977), TÓTH (1994), VASS (1981), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Arcyria insignis* Kalchbr. et Cooke – BODONYI and TÓTH (2004), RÉVAY and NAGY (2005), RÉVAY and GÖNCZÖL (2008).
- Arcyria nutans* (Bull.) Grev. (= *Arcyria flava* Pers.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1964, 1994), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1981), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Arcyria pomiformis* (Leers) Rostaf. – BÁNHEGYI (1938, 1943), MOESZ (1942), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Arcyria stipata* (Schwein.) Lister – VASS (1972).
- Arcyria versicolor* W. Phillips (= *Arcyria vitellina* W. Phillips) – VASS (1972, 1983).
- Badhamia affinis* Rostaf. – BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Badhamia capsulifera* (Bull.) Berk. (= *Badhamia hyalina* (Pers.) Berk.) – HOLLÓS (1913), MOESZ (1926), TÓTH (1954).
- Badhamia foliicola* Lister – MOESZ (1941), VASS (1978, 1983), ZELLER and TÓTH (1979), RÉVAY and NAGY (2005).
- Badhamia lilacina* var. *lilacina* (Fr.) Rostaf. – BP 99694, on *Sphagnum* sp., Kelemér, 25.09.2004, leg. Nagy, det. Révay.

- Badhamia macrocarpa* (Ces.) Rostaf. – HOLLÓS (1913), MOESZ (1926), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Badhamia panicea* (Fr.) Rostaf. – MOESZ (1926), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Badhamia populina* Lister et G. Lister – BP 81156, on bark of *Populus nigra* L. subsp. *pyramidalis* (Roz.) Celak., 13.09.1959, leg. Tóth, det. Tóth and Zeller; RÉVAY and NAGY (2005).
- Badhamia rubiginosa* (Chevall.) Rostaf. – VASS (1972, 1975, 1978), BODONYI and TÓTH (2004).
- Badhamia utricularis* (Bull.) Berk. – ZELLER and TÓTH (1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004).
- Brefeldia maxima* (Fr.) Rostaf. – ZELLER and TÓTH (1977).
- Calomyxa metallica* (Berk.) Nieuwl. (= *Margarita metallica* (Berk. et Broome) Lister) – VASS (1989).
- Ceratiomyxa fruticulosa* (O. F. Müll.) T. Macbr. (= *Ceratiomyxa mucida* (Pers.) J. Schröt.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1964, 1994), ZELLER and TÓTH (1960, 1971, 1977), VASS (1983), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Ceratiomyxa fruticulosa* var. *porioides* (Alb. et Schw.) A. Lister – BÁNHEGYI (1939).
- Collaria arcyronema* (Rostk.) Nann.-Bremek. (= *Lamproderma arcyronema* Rostaf.) – BÁNHEGYI (1943), BODONYI and TÓTH (2004).
- Collaria elegans* (Racib.) Dhillon et Nann.-Bremek. (= *Comatricha elegans* (Racib.) Lister) – VASS (1977), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Collaria lurida* (Lister) Nann.-Bremek. (= *Comatricha lurida* Lister) – ZELLER and TÓTH (1960, 1977), BODONYI and TÓTH (2004).
- Colloderma oculatum* (C. Lippert) G. Lister – BODONYI and TÓTH (2004).
- Comatricha laxa* Rostaf. – ZELLER and TÓTH (1971), BODONYI and TÓTH (2004).
- Comatricha nigra* (Pers.) J. Schröt. (= *Stemonitis obtusata* Fr., *Comatricha obtusata* (Fr.) Preuss) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938, 1943), TÓTH (1954, 1994), ZELLER and TÓTH (1971, 1977, 1979), VASS (1972, 1983), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Comatricha pulchella* (C. Bab.) Rostaf. – BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Comatricha tenerrima* (M. A. Curtis) G. Lister – ZELLER and TÓTH (1971).
- Craterium aureum* (Schumach.) Rostaf. – ZELLER and TÓTH (1977); BP 99695, on leaves of *Quercus* sp., in forest Nyomási-erdő, Kecskemét, 25.09.2004, leg. Nagy, det. Révay.
- Craterium dictyosporum* (Rostaf.) H. Neubert, Nowotny et K. Baumann (= *Badhamia dictyospora* Rostaf.) – VASS (1972).
- Craterium leucocephalum* (Pers.) Ditmar – MOESZ (1926, 1942), BÁNHEGYI (1938, 1943), TÓTH (1954), ZELLER and TÓTH (1971, 1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).

- Craterium minutum* (Leers) Fr. (= *Craterium pedunculatum* Trentep.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1939, 1943), TÓTH (1954, 1992, 1994), ZELLER and TÓTH (1971, 1977, 1979), VASS (1972), BODONYI and TÓTH (2004).
- Craterium obovatum* Peck (= *Badhamia obovata* (Peck) S. J. Sm.) – RÉVAY and NAGY (2005).
- Cribraria argillacea* (Pers.) Pers. – TÓTH (1954, 1964), ZELLER and TÓTH (1971, 1977), BODONYI and TÓTH (2004).
- Cribraria aurantiaca* Schrad. – HOLLÓS (1933), BÁNHEGYI (1938), MOESZ (1942), TÓTH (1954), ZELLER and TÓTH (1977), RÉVAY and NAGY (2005).
- Cribraria cancellata* (Batsch) Nann.-Bremek. (= *Dictydium cancellatum* (Batsch) T. Macbr., *Dictydium cernuum* (Pers.) Nees) – MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1964), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1962), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Cribraria cancellata* var. *fusca* (G. Lister) Nann.-Bremek. (= *Dictydium cancellatum* var. *fuscum* Lister) – ZELLER and TÓTH (1960).
- Cribraria intricata* Schrad. – ZELLER and TÓTH (1971).
- Cribraria languescens* Rex – BODONYI and TÓTH (2004).
- Cribraria macrocarpa* Schrad. – ZELLER and TÓTH (1979), VASS (1981), BODONYI and TÓTH (2004).
- Cribraria microcarpa* (Schrad.) Pers. – RÉVAY and NAGY (2005).
- Cribraria oregana* H. C. Gilbert – BODONYI and TÓTH (2004).
- Cribraria purpurea* Schrad. – BP 32637, on wood of *Picea abies* (L.) Karst., Jávorkút, Bükk Mts, 29.10.1959, leg. et det. Tóth.
- Cribraria pyriformis* Schrad. – VASS (1972), BODONYI and TÓTH (2004).
- Cribraria rufa* (Roth) Rostaf. – BP 45079, on *Betula pendula* Roth, Lökberc, Bükk Mts, 05.10.1955, leg. et det. Tóth; VASS (1989).
- Cribraria splendens* (Schrad.) Pers. – ZELLER and TÓTH (1960).
- Cribraria tenella* Schrad. – ZELLER and TÓTH (1960, 1971).
- Cribraria violacea* Rex – BÁNHEGYI (1943); BP 86540, on deer dung, Öserdő, Bükk Mts, 01.09.1984, leg. et det. Tóth; BP 86597, on *Artemisia campestris* L., Vácgres, 28.10.1982, leg. et det. Tóth
- Cribraria vulgaris* Schrad. – TÓTH (1964), BODONYI and TÓTH (2004).
- Diachea leucopodia* (Bull.) Rostaf. (= *Diachea elegans* (Trent.) Fr.) – BÁNHEGYI (1939, 1943), MOESZ (1942), TÓTH (1964), ZELLER and TÓTH (1977, 1979), VASS (1989), BODONYI and TÓTH (2004).
- Dianema corticatum* Lister – MOESZ (1926).
- Dianema depressum* (Lister) Lister – HOLLÓS (1933).
- Dictydiaethalium plumbeum* (Schumach.) Rostaf. ex Lister – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1939), TÓTH (1954), VASS and TÓTH (1959), ZELLER and TÓTH (1971, 1977, 1979), VASS (1977), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Diderma crustaceum* Peck – ZELLER and TÓTH (1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004).

- Diderma deplanatum* Fr. (= *Diderma niveum* Macbr. subsp. *deplanatum* Lister) – BP 46704, on stem of *Arabis alpina* L., in valley Ablakoskő-völgy, Nagyvisnyó, Bükk Mts, 08.05.1955, leg. et det. Tóth; BP 59801, on leaves of *Fagus sylvatica*, in valley Bán-völgy, Bükk Mts, 21.07.1948, leg. et det. Tóth; BÁNHEGYI (1938, 1943), TÓTH (1965).
- Diderma effusum* (Schwein.) Morgan – TÓTH (1964, 1965), RÉVAY and NAGY (2005).
- Diderma evelinae* (Meyl.) Kowalski (= *Wilczekia evelinae* Meyl.) – BP 75427, on *Alnus glutinosa*, Morgó stream, Börzsöny Mts, Kismaros, 12.08.1981, leg. et det. Révay and Gönczöl.
- Diderma globosum* Pers. (= *Chondrioderma globosum* (Pers.) Rostaf.) – TÓTH (1965), BODONYI and TÓTH (2004).
- Diderma niveum* (Rostaf.) T. Macbr. – MOESZ (1930, 1942), TÓTH (1954).
- Diderma radiatum* (L.) Morgan – BP 45430, on stem of *Athyrium filix-femina* (L.) Roth, Balla bérc, Répáshuta, Bükk Mts, 06.10.1955, leg. et det. Tóth; BP 91542, on wood of *Fagus sylvatica*, Kerek-hegy, Bükk Mts, 15.10.1988, leg. et det. Tóth; BODONYI and TÓTH (2004).
- Diderma spumarioides* (Fr.) Fr. (= *Chondrioderma spumarioides* (Fr.) Rostaf.) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938), TÓTH (1954), ZELLER and TÓTH (1971, 1977).
- Diderma subdictyospermum* (Rostaf.) G. Lister – HOLLÓS (1913), MOESZ (1926).
- Diderma testaceum* (Schrad.) Pers. (= *Chondrioderma testaceum* (Schrad.) Rostaf.) – HOLLÓS (1933), BÁNHEGYI (1939, 1943), MOESZ (1942), TÓTH (1954, 1965), ZELLER and TÓTH (1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004).
- Didymium clavus* (Alb. et Schwein.) Rabenh. – BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Didymium crustaceum* Fr. – BP 81143, on *Pinus nigra*, János-hegy, Budapest, 25.09.1938, leg. Bánhegyi, det. Zeller and Tóth.
- Didymium difforme* (Pers.) Gray (= *Chondrioderma difforme* (Pers.) Rostaf.) – BÁNHEGYI (1943), TÓTH (1965, 1967), VASS (1971), ZELLER and TÓTH (1977).
- Didymium melanospermum* (Pers.) T. Macbr. – BÁNHEGYI (1939), MOESZ (1942), TÓTH (1965, 1994), ZELLER and TÓTH (1971, 1977, 1979), BODONYI and TÓTH (2004).
- Didymium nigripes* (Link) Fr. – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1943), ZELLER and TÓTH (1977), TÓTH (1994), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and GÖNCZÖL (2008).
- Didymium squamulosum* (Alb. et Schwein.) Fr. (= *Chondrioderma cookei* Rostaf., *Didymium praecox* de Bary) – MOESZ (1926, 1942), BÁNHEGYI (1939, 1943), TÓTH (1954, 1965, 1967, 1994), ZELLER and TÓTH (1971, 1977), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Didymium vaccinum* (Durieu et Mont.) Buchet – TÓTH (1965), ZELLER and TÓTH (1971).
- Enerthenema papillatum* (Pers.) Rostaf. – TÓTH (1954), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).

- Enteridium lycoperdon* (Bull.) M. L. Farr (= *Reticularia lycoperdon* Bull., *Reticularia umbrina* Fr.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), ZELLER and TÓTH (1971, 1977, 1979), VASS (1978), RÉVAY and NAGY (2005).
- Enteridium olivaceum* Ehrenb. (= *Reticularia olivacea* Fr.) – TÓTH (1954), ZELLER and TÓTH (1977).
- Enteridium rozeanum* (Rostaf.) Wingate – VASS (1989), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Fuligo cinerea* (Schwein.) Morgan (= *Physarum ellipsosporum* Rostaf.) – HOLLÓS (1933), BÁNHEGYI (1938), MOESZ (1942), ZELLER and TÓTH (1971, 1977, 1979), TÓTH (1994), GÖNCZÖL and RÉVAY (1999).
- Fuligo gyrosa* (Rostaf.) E. Jahn (= *Physarum gyrosum* Rostaf.) – TÓTH (1954), GÖNCZÖL and RÉVAY (1999).
- Fuligo septica* (L.) F. H. Wigg. (= *Fuligo varians* Sommerf.) – HOLLÓS (1913, 1933), MOESZ (1926, 1930, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1964, 1992, 1994), VASS and TÓTH (1959), VASS (1962, 1972, 1978, 1989), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Hemitrichia calyculata* (Speg.) M. L. Farr. (= *Hemitrichia stipitata* (Masse) T. Macbr.) – RÉVAY and NAGY (2005).
- Hemitrichia clavata* (Pers.) Rostaf. (= *Trichia clavata* Pers.) – MOESZ (1926, 1942), HOLLÓS (1933), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1992, 1994), VASS and TÓTH (1959), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1981), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004).
- Hemitrichia leiocarpa* (Cooke) Lister (= *Arcyria leiocarpa* (Cooke) G. W. Martin et Alexop.) – BODONYI and TÓTH (2004).
- Hemitrichia serpula* (Scop.) Rostaf. – ZELLER and TÓTH (1971, 1977), TÓTH (1994), RÉVAY and NAGY (2005).
- Lamproderma arcyrioides* (Sommerf.) Rostaf. (= *Lamproderma violaceum* (Fr.) Rostaf.) – BP 86537, on wood of *Fagus sylvatica*, Öserdő, Bükk Mts, 27.10.1984, leg. Siller, det. Tóth.
- Lamproderma columbinum* (Pers.) Rostaf. – ZELLER and TÓTH (1971).
- Lamproderma scintillans* (Berk. et Broome) Morgan – ZELLER and TÓTH (1971, 1977).
- Leocarpus fragilis* (Dicks.) Rostaf. – MOESZ (1926, 1942), TÓTH (1954, 1992), ZELLER and TÓTH (1971), VASS (1989), RÉVAY and NAGY (2005).
- Lepidoderma chailletii* Rostaf. – TÓTH (1967), ZELLER and TÓTH (1977).
- Lepidoderma tigrinum* (Schrad.) Rostaf. – BP 86593, on *Dianthus serotinus* W. et K., Fülöpszállás, 21.06.1982, leg. et det. Tóth.
- Leptoderma iridescens* G. Lister – TÓTH (1954).
- Licea biforis* Morgan – BODONYI and TÓTH (2004).
- Licea hungarica* Moesz – MOESZ (1926).
- Licea minima* Fr. – ZELLER and TÓTH (1971), TÓTH (1994).
- Licea parasitica* (Zukal) G. W. Martin (= *Hymenobolina parasitica* (Zukal) Zukal) – GÖNCZÖL and RÉVAY (1999).

- Licea pumila* G. W. Martin et T. C. Allen – BP 86536, on *Osmunda regalis* L., Barcs, Comit. Somogy, 30.06.1982, leg. et det. Tóth.
- Licea pusilla* Schrad. – TÓTH (1994).
- Lycogala conicum* Pers. – ZELLER and TÓTH (1977), TÓTH (1994).
- Lycogala epidendrum* (J. C. Buxb. ex L.) Fr. (= *Lycogala miniatum* Pers.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1964, 1992, 1994), VASS and TÓTH (1959), VASS (1961, 1962, 1972, 1977, 1978, 1983, 1989), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Lycogala flavofuscum* (Ehrenb.) Rostaf. (= *Reticularia flavofusca* Fr.) – ZELLER and TÓTH (1971), RÉVAY and NAGY (2005).
- Metatrachia floriformis* (Schwein.) Nann.-Bremek. (= *Trichia floriformis* (Schwein.) G. Lister) – VASS (1976).
- Metatrachia vesparium* (Batsch) Nann.-Bremek. (= *Hemitruchia vesparium* (Batsch) T. Macbr., *Hemitruchia rubiformis* (Pers.) Lister, *Trichia neesiana* Corda, *Trichia pyriformis* Pers.) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1938, 1943), TÓTH (1954, 1992, 1994), VASS and TÓTH (1959), VASS (1961, 1972, 1981), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Mucilago crustacea* P. Micheli ex F. H. Wigg. (= *Spumaria alba* (Bull.) DC., *Mucilago spongiosa* (Leys.) Morgan) – HOLLÓS (1913, 1933), MOESZ (1926, 1942), BÁNHEGYI (1943), TÓTH (1954), ZELLER and TÓTH (1971, 1977), BODONYI and TÓTH (2004).
- Oligonema flavidum* (Peck) Peck – RÉVAY and NAGY (2005).
- Oligonema schweinitzii* (Berk.) G. W. Martin (= *Oligonema nitens* (Lib.) Rostaf.) – HOLLÓS (1913), MOESZ (1926), BP 86606, on wood, Szőce, Comit. Vas, 15.09.1982, leg. Vass and Márton, det. Tóth.
- Paradiacheopsis fimbriata* (G. Lister et Cran) Hertel (= *Comatracha fimbriata* G. Lister et Cran) – ZELLER and TÓTH (1977).
- Perichaena chryosperma* (Curr.) Lister (= *Ophiotheca chryosperma* Curr., *Ophiotheca wrightii* Berk. et Curt.) – BÁNHEGYI (1943), TÓTH (1963, 1965), ZELLER and TÓTH (1971, 1977), BODONYI and TÓTH (2004).
- Perichaena corticalis* (Batsch) Rostaf. – TÓTH (1954, 1963, 1965, 1967, 1992), ZELLER and TÓTH (1971, 1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Perichaena depressa* Lib. (= *Perichaena australis* (Ces.) Berl.) – MOESZ (1926, 1942), BÁNHEGYI (1943), TÓTH (1954, 1963, 1965, 1967, 1992, 1994), VASS (1971), ZELLER and TÓTH (1977, 1979), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004).
- Perichaena liceoides* Rostaf. (= *Perichaena corticalis* var. *liceoides* (Rostaf.) G. Lister) – BP 91579, on leaves, Békő, Bélapátfalva, Bükk Mts, 20.03.1975, leg. Horánszky, det. Tóth.
- Perichaena vermicularis* (Schwein.) Rostaf. (= *Perichaena variabilis* Rostaf.) – HOLLÓS (1913), MOESZ (1926), RÉVAY and NAGY (2005).
- Physarum aurantium* Pers. – TÓTH (1964).

- Physarum auriscalpium* Cooke – VASS (1989).
- Physarum bitectum* G. Lister – BÁNHEGYI (1943), TÓTH (1965).
- Physarum bivalve* Pers. (= *Physarum sinuosum* Link) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1939, 1943), TÓTH (1954, 1994), ZELLER and TÓTH (1971, 1979), BODONYI and TÓTH (2004).
- Physarum cinereum* (Batsch) Pers. – MOESZ (1926, 1942), HOLLÓS (1933), BÁNHEGYI (1943), VASS and TÓTH (1959), ZELLER and TÓTH (1971, 1977, 1979), VASS (1989), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005), RÉVAY and GÖNCZÖL (2008).
- Physarum compressum* Alb. et Schwein. – MOESZ (1926, 1942), TÓTH (1954, 1994), ZELLER and TÓTH (1971), VASS (1989), BODONYI and TÓTH (2004).
- Physarum confertum* T. Macbr. – TÓTH (1954), ZELLER and TÓTH (1977), GÖNCZÖL and RÉVAY (1999).
- Physarum conglomeratum* (Fr.) Rostaf. – HOLLÓS (1913), MOESZ (1926), VASS (1989).
- Physarum contextum* (Pers.) Pers. – BODONYI and TÓTH (2004).
- Physarum diderma* Rostaf. – ZELLER and TÓTH (1977), BP 82483, on *Campanula bononiensis* L., Kálló-hegy, Börzsöny Mts, Kismaros, 08.04.1981, leg. et det. Tóth.
- Physarum didermoides* (Ach. ex Pers.) Rostaf. – MOESZ (1926, 1942), TÓTH (1965, 1967, 1994), VASS (1971), ZELLER and TÓTH (1971, 1977), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Physarum globuliferum* (Bull.) Pers. – MOESZ (1926, 1930, 1942).
- Physarum lateritium* (Berk. et Ravenel) Morgan – BP 90856, on wood of *Fagus sylvatica*, Szarvaskő, Bükk Mts, 23.08.1980, leg. et det. Tóth.
- Physarum leucophaeum* Fr. (= *Physarum album* subsp. *leucophaeum* (Fr.) Lister, *Physarum nutans* var. *leucophaeum* (Pers.) Lister) – MOESZ (1942), VASS and TÓTH (1959), ZELLER and TÓTH (1971, 1977), VASS (1972, 1989), BODONYI and TÓTH (2004).
- Physarum leucopus* Link – HOLLÓS (1913), MOESZ (1926), VASS (1972), ZELLER and TÓTH (1977), RÉVAY and NAGY (2005).
- Physarum melleum* Masee – VASS (1972), RÉVAY and NAGY (2005).
- Physarum nutans* Pers. (= *Physarum album* (Bull.) Moesz) – MOESZ (1926, 1942), HOLLÓS (1933), BÁNHEGYI (1939, 1943), TÓTH (1954, 1964), VASS and TÓTH (1959), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1972), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Physarum ovisporum* G. Lister – BP 46025, on hare dung, Gödöllő, 05.08.1968, leg. et det. Tóth.
- Physarum polymorphum* (Mont.) Rostaf. – HOLLÓS (1913), MOESZ (1926).
- Physarum psittacinum* Ditmar – MOESZ (1926, 1942), BÁNHEGYI (1943), TÓTH (1964), ZELLER and TÓTH (1971, 1977).
- Physarum pusillum* (Berk. et M. A. Curtis) G. Lister – MOESZ (1926, 1942), VASS (1983, 1989), RÉVAY and NAGY (2005).
- Physarum reniforme* G. Lister – BP 45263, on *Sambucus nigra*, Gödöllő, 19.10.1955, leg. et det. Tóth.
- Physarum sulphureum* Alb. et Schwein. – TÓTH (1954).

- Physarum superbum* Hagelst. – BP 75416, on leaves of *Quercus* sp., Királyrét, Börzsöny Mts, 08.05.1981, leg. et det. Révay and Gönczöl.
- Physarum tenerum* Rex – BODONYI and TÓTH (2004).
- Physarum vernalis* Sommerf. – MOESZ (1926), TÓTH (1954), GÖNCZÖL and RÉVAY (1999).
- Physarum virescens* Ditmar – TÓTH (1954), BODONYI and TÓTH (2004).
- Physarum viride* Fr. – ZELLER and TÓTH (1960, 1971, 1977), TÓTH (1964, 1994), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Stemonaria longa* (Peck) Nann.-Bremek., Y. Yamam. et R. Sharma (= *Comatricha longa* Peck) – BP 45103, on *Ailanthus altissima* (Mill.) Swingle, Gödöllő, 14.08.1954, leg. et det. Tóth.
- Stemonitis axifera* (Bull.) T. Macbr. – ZELLER and TÓTH (1977, 1979), VASS (1977, 1978, 1983, 1989), TÓTH (1994), BODONYI and TÓTH (2004).
- Stemonitis ferruginea* Ehrenb. – MOESZ (1926, 1942), HOLLÓS (1933), BÁNHEGYI (1939, 1943), TÓTH (1954), ZELLER and TÓTH (1960, 1971), RÉVAY and NAGY (2005).
- Stemonitis flavogenita* E. Jahn – VASS (1975, 1977), ZELLER and TÓTH (1977).
- Stemonitis fusca* Roth (= *Stemonitis maxima* Schw.) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), VASS and TÓTH (1959), VASS (1961, 1962, 1972, 1978, 1981, 1983, 1989), ZELLER and TÓTH (1971, 1977, 1979), TÓTH (1994), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004).
- Stemonitis fusca* var. *rufescens* Lister – ZELLER and TÓTH (1971), VASS (1972).
- Stemonitis herbatICA* Peck – ZELLER and TÓTH (1971), VASS (1972).
- Stemonitis nigrescens* Rex – BP 86526, on *Osmunda regalis*, Barcs, 30.06.1982, leg. et det. Tóth; BP 86527, on wood, in valley Huszári-patak, Comit. Vas, 15.03.1984, leg. et det. Tóth.
- Stemonitis pallida* Wingate – VASS (1972, 1975, 1983, 1985).
- Stemonitis smithii* T. Macbr. – ZELLER and TÓTH (1979).
- Stemonitis splendens* Rostaf. – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954), ZELLER and TÓTH (1971, 1977, 1979), VASS (1972, 1975, 1977, 1983), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004).
- Stemonitopsis aequalis* (Peck) Y. Yamam. (= *Comatricha aequalis* Peck, *Comatricha nigra* var. *aequalis* (Peck) Sturgis) – ZELLER and TÓTH (1971), TÓTH (1994).
- Stemonitopsis hyperopta* (Meyl.) Nann.-Bremek. (= *Stemonitis hyperopta* Meyl.) – VASS (1981, 1984); BP 99791, on wood of *Pinus sylvestris* L., in forest Nyomási-erdő, Kecskemét, 17.07.2005, leg. Nagy, det. Révay.
- Stemonitopsis typhina* (F. H. Wigg.) Nann.-Bremek. (= *Comatricha typhina* (Roth) Rostaf., *Comatricha typhoides* (Bull.) Rostaf., *Stemonitis typhoides* (Bull.) DC.) – HOLLÓS (1933), BÁNHEGYI (1939, 1943), MOESZ (1942), ZELLER and TÓTH (1960, 1971, 1977, 1979), TÓTH (1964, 1994), VASS (1977, 1981, 1983), BODONYI and TÓTH (2004).
- Symphytocarpus confluens* (Cooke et Ellis) Ing et Nann.-Bremek. (= *Stemonitis confluens* Cooke et Ellis) – VASS (1978, 1983).
- Symphytocarpus flaccidus* (Lister) Ing et Nann.-Bremek. (= *Comatricha flaccida* Lister) – BÁNHEGYI (1939).

- Trichia affinis* de Bary – MOESZ (1942), BÁNHEGYI (1943), TÓTH (1954), ZELLER and TÓTH (1971), RÉVAY and NAGY (2005).
- Trichia botrytis* (J. F. Gmel.) Pers. (= *Trichia fragilis* (Sowerby) Rostaf.) – TÓTH (1954), VASS (1961, 1962, 1977), ZELLER and TÓTH (1971), BODONYI and TÓTH (2004), RÉVAY and GÖNCZÖL (2008).
- Trichia contorta* (Ditmar) Rostaf. – MOESZ (1926, 1942), HOLLÓS (1933), TÓTH (1954), ZELLER and TÓTH (1971, 1977), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Trichia contorta* var. *inconspicua* (Rostaf.) Lister – TÓTH (1954).
- Trichia decipiens* (Pers.) T. Macbr. – MOESZ (1926, 1942), BÁNHEGYI (1938, 1943), VASS and TÓTH (1959), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1975, 1977, 1981, 1983), TÓTH (1992), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Trichia favoginea* (Batsch) Pers. (= *Trichia chryosperma* (Bull.) DC.) – HOLLÓS (1933), TÓTH (1954, 1992, 1994), ZELLER and TÓTH (1960, 1977, 1979), BODONYI and TÓTH (2004).
- Trichia persimilis* P. Karst. – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1943), TÓTH (1954), ZELLER and TÓTH (1971, 1977).
- Trichia scabra* Rostaf. – BÁNHEGYI (1938, 1939, 1943), MOESZ (1942), TÓTH (1954, 1992, 1994), VASS and TÓTH (1959), ZELLER and TÓTH (1960, 1971, 1977, 1979), VASS (1972, 1977), GÖNCZÖL and RÉVAY (1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Trichia subfusca* Rex – VASS and TÓTH (1959), VASS (1972, 1974, 1977).
- Trichia varia* (Pers.) Pers. (= *Trichia nigripes* Pers.) – HOLLÓS (1913), MOESZ (1926, 1942), BÁNHEGYI (1938, 1939, 1943), TÓTH (1954, 1964, 1992, 1994), VASS and TÓTH (1959), VASS (1961, 1962, 1977), ZELLER and TÓTH (1960, 1971, 1977, 1979), GÖNCZÖL and RÉVAY (1981, 1999), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).
- Trichia verrucosa* Berk. – VASS (1972).
- Tubifera ferruginosa* (Batsch) J. F. Gmel. (= *Tubifera cylindrica* J. F. Gmel., *Tubulina cylindrica* (Bull.) DC., *Tubulina fragiformis* Pers.) – HOLLÓS (1913, 1933), MOESZ (1926), BÁNHEGYI (1939, 1943), TÓTH (1954, 1964), ZELLER and TÓTH (1977, 1979), BODONYI and TÓTH (2004), RÉVAY and NAGY (2005).

Appendix. List of synonym names

Synonyms	Names in current use
<i>Amaurochaete fuliginosa</i> (Sow.) Macbr.)	Amaurochaete atra (Alb. et Schwein.) Rostaf.
<i>Arcyria adnata</i> (Batsch) Rostaf.	Arcyria incarnata (Pers.) Pers.
<i>Arcyria albida</i> Pers.	Arcyria cinerea (Bull.) Pers.
<i>Arcyria flava</i> Pers.	Arcyria nutans (Bull.) Grev.
<i>Arcyria leiocarpa</i> (Cooke) G. W. Martin et Alexop.	Hemitrichia leiocarpa (Cooke) Lister
<i>Arcyria punicea</i> Pers.	Arcyria denudata (L.) Wettst.
<i>Arcyria vitellina</i> W. Phillips	Arcyria versicolor W. Phillips
<i>Badhamia dictyospora</i> Rostaf.	Craterium dictyosporum (Rostaf.) H. Neubert, Nowotny et K. Baumann
<i>Badhamia hyalina</i> (Pers.) Berk.	Badhamia capsulifera (Bull.) Berk.
<i>Badhamia obovata</i> (Peck) S. J. Sm.	Craterium obovatum Peck
<i>Ceratiomyxa mucida</i> (Pers.) J. Schröt.	Ceratiomyxa fruticulosa (O. F. Müll.) T. Macbr.
<i>Chondrioderma cookei</i> Rostaf.	Didymium squamulosum (Alb. et Schwein.) Fr.
<i>Chondrioderma difforme</i> (Pers.) Rostaf.	Didymium difforme (Pers.) Gray
<i>Chondrioderma globosum</i> (Pers.) Rostaf.	Diderma globosum Pers.
<i>Chondrioderma spumarioides</i> (Fr.) Rostaf.	Diderma spumarioides (Fr.) Fr.
<i>Chondrioderma testaceum</i> (Schräd.) Rostaf.	Diderma testaceum (Schräd.) Pers.
<i>Comatricha aequalis</i> (Peck) Sturgis	Stemonitopsis aequalis (Peck) Y. Yamam.
<i>Comatricha elegans</i> (Racib.) Lister	Collaria elegans (Racib.) Dhillon et Nann.-Bremek.
<i>Comatricha fimbriata</i> G. Lister et Cran	Paradiacheopsis fimbriata (G. Lister et Cran) Hertel
<i>Comatricha flaccida</i> Lister	Symphycarpus flaccidum (Lister) Ing et Nann.-Bremek.
<i>Comatricha longa</i> Peck	Stemonaria longa (Peck) Nann.-Bremek., Y. Yamam. et R. Sharma
<i>Comatricha lurida</i> Lister	Collaria lurida (Lister) Nann.-Bremek.
<i>Comatricha nigra</i> var. <i>aequalis</i> (Peck) Sturgis	Stemonitopsis aequalis (Peck) Y. Yamam.
<i>Comatricha obtusata</i> (Fr.) Preuss	Comatricha nigra (Pers.) J. Schröt.
<i>Comatricha typhina</i> (Roth) Rostaf.	Stemonitopsis typhina (F. H. Wigg.) Nann.-Bremek.
<i>Comatricha typhoides</i> (Bull.) Rostaf.	Stemonitopsis typhina (F. H. Wigg.) Nann.-Bremek.
<i>Craterium pedunculatum</i> Trentep.	Craterium minutum (Leers) Fr.
<i>Diachea elegans</i> (Trent.) Fr.	Diachea leucopodia (Bull.) Rostaf.
<i>Dictydium cancellatum</i> (Batsch) T. Macbr.	Cribraria cancellata (Batsch) Nann.-Bremek.
<i>Dictydium cancellatum</i> var. <i>fuscum</i> Lister	Cribraria cancellata var. <i>fusca</i> (G. Lister) Nann.-Bremek.
<i>Dictydium cernuum</i> (Pers.) Nees	Cribraria cancellata (Batsch) Nann.-Bremek.
<i>Diderma niveum</i> Macbr. subsp. <i>deplanatum</i> Lister	Diderma deplanatum Fr.
<i>Didymium praecox</i> de Bary	Didymium squamulosum (Alb. et Schwein.) Fr.
<i>Fuligo varians</i> Sommerf.	Fuligo septica (L.) F. H. Wigg.
<i>Hemitrichia rubiformis</i> (Pers.) Lister	Metatrichia vesparium (Batsch) Nann.-Bremek.
<i>Hemitrichia stipitata</i> (Massee) T. Macbr.	Hemitrichia calyculata (Speg.) M. L. Farr
<i>Hemitrichia vesparium</i> (Batsch) T. Macbr.	Metatrichia vesparium (Batsch) Nann.-Bremek.

Synonyms	Names in current use
<i>Hymenobolina parasitica</i> (Zukal) Zukal	Licea parasitica (Zukal) G. W. Martin
<i>Lachnobolus congestus</i> (Sommerf.) Lister	Arcyodes incarnata (Alb. et Schwein) O. F. Cook
<i>Lamproderma arcyriionema</i> Rostaf.	Collaria arcyriionema (Rostk.) Nann.-Bremek.
<i>Lamproderma violaceum</i> (Fr.) Rostaf.	Lamproderma arcyrioides (Sommerf.) Rostaf.
<i>Licea flexuosa</i> Pers.	Licea variabilis Schrad
<i>Lycogala miniatum</i> Pers.	Lycogala epidendrum (J.C. Buxb. ex L.) Fr.
<i>Margarita metallica</i> (Berk. et Broome) Lister	Calomyxa metallica (Berk.) Nieuwl.
<i>Mucilago spongiosa</i> (Leys.) Morgan	Mucilago crustacea P. Micheli ex F. H. Wigg.
<i>Oligonema nitens</i> (Lib.) Rostaf.	Oligonema schweinitzii (Berk.) G. W. Martin
<i>Ophiotheca chrysoesperma</i> Curr.	Perichaena chrysoesperma (Curr.) Lister
<i>Ophiotheca wrightii</i> Berk. et Curt.	Perichaena chrysoesperma (Curr.) Lister
<i>Perichaena australis</i> (Ces.) Berl.	Perichaena depressa Lib.
<i>Perichaena corticalis</i> var. <i>liceoides</i> (Rostaf.) G. Lister	Perichaena liceoides Rostaf.
<i>Perichaena variabilis</i> Rostaf.	Perichaena vermicularis (Schwein.) Rostaf.
<i>Physarum album</i> (Bull.) Moesz	Physarum nutans Pers.
<i>Physarum album</i> subsp. <i>leucophaeum</i> (Fr.) Lister	Physarum leucophaeum Fr.
<i>Physarum ellipsosporum</i> Rostaf.	Fuligo cinerea (Schwein.) Morgan
<i>Physarum gyrosom</i> Rostaf.	Fuligo gyrosa (Rostaf.) E. Jahn
<i>Physarum nutans</i> var. <i>leucophaeum</i> (Pers.) Lister	Physarum leucophaeum Fr.
<i>Physarum sinuosum</i> Link	Physarum bivalve Pers.
<i>Reticularia flavofusca</i> Fr.	Lycogala flavofuscum (Ehrenb.) Rostaf.
<i>Reticularia lycoperdon</i> Bull.	Enteridium lycoperdon (Bull.) M. L. Farr
<i>Reticularia olivacea</i> Fr.	Enteridium olivaceum Ehrenb.
<i>Reticularia umbrina</i> Fr.	Enteridium lycoperdon (Bull.) M. L. Farr
<i>Spumaria alba</i> (Bull.) DC.	Mucilago crustacea P. Micheli ex F. H. Wigg.
<i>Stemonitis confluens</i> Cooke et Ellis	Symphytocarpus confluens (Cooke et Ellis) Ing et Nann.- Bremek.
<i>Stemonitis hyperopta</i> Meyl.	Stemonitopsis hyperopta (Meyl.) Nann.-Bremek.
<i>Stemonitis maxima</i> Schw.	Stemonitis fusca Roth
<i>Stemonitis obtusata</i> Fr.	Comatricha nigra (Pers.) J. Schröt.
<i>Stemonitis typhoides</i> (Bull.) DC.	Stemonitopsis typhina (F. H. Wigg.) Nann.-Bremek.
<i>Trichia chrysoesperma</i> (Bull.) DC.	Trichia favoginea (Batsch) Pers.
<i>Trichia clavata</i> Pers.	Hemitrichia clavata (Pers.) Rostaf.
<i>Trichia floriformis</i> (Schwein.) G. Lister	Metatrichia floriformis (Schwein.) Nann.-Bremek.
<i>Trichia fragilis</i> (Sowerby) Rostaf.	Trichia botrytis (J. F. Gmel.) Pers.
<i>Trichia neesiana</i> Corda	Metatrichia vesparium (Batsch) Nann.-Bremek.
<i>Trichia nigripes</i> Pers.	Trichia varia (Pers.) Pers.
<i>Trichia pyriformis</i> Pers.	Metatrichia vesparium (Batsch) Nann.-Bremek.
<i>Tubifera cylindrica</i> J. F. Gmel.	Tubifera ferruginosa (Batsch) J. F. Gmel.
<i>Tubulina cylindrica</i> (Bull.) DC.	Tubifera ferruginosa (Batsch) J. F. Gmel.
<i>Tubulina fragiformis</i> Pers.	Tubifera ferruginosa (Batsch) J. F. Gmel.
<i>Wilczekia evelinae</i> Meyl.	Diderma evelinae (Meyl.) Kowalski

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