

Myxomycete (Slime Mould) Collection

Amgueddfa Cymru-National Museum Wales (NMW)

Alan Orange (2012), updated by Katherine Slade (2017)

Myxomycetes (true or plasmodial slime moulds) belong to the Eumycetozoa, within the Amoebozoa, a group of eukaryotes that are basal to a clade containing animals and fungi. Thus although they have traditionally been studied by mycologists they are distant from the true fungi.

Arrangement & Nomenclature

Slime Mould specimens in NMW are arranged in alphabetical order of the currently accepted name (as of 2012). Names used on specimen packets that are now synonyms are cross referenced in the list below. The collection currently contains 157 Myxomycete species. Specimens are mostly from Britain, with a few from other parts of Europe or from North America.

The current standard work for identification of the British species is: Ing, B. 1999. *The Myxomycetes of Britain and Ireland. An Identification Handbook*. Slough: Richmond Publishing Co. Ltd.

Nomenclature follows the online database of Slime Mould names at www.eumycetozoa.com (accessed 2012). This database is largely in line with Ing (1999).

Preservation

The feeding stage is a multinucleate motile mass known as a plasmodium. The fruiting stage is a dry, fungus-like structure containing abundant spores. Mature fruiting bodies of Myxomycetes can be collected and dried, and with few exceptions (such as *Ceratiomyxa*) they preserve well.

Plasmodia cannot be preserved, but it is useful to record the colour if possible. Semi-mature fruiting bodies may continue to mature if collected with the substrate and kept in a cool moist chamber. Collected plasmodia are unlikely to fruit.

Specimens are stored in boxes to prevent crushing; labels should not be allowed to touch the specimen. Ideally, specimens are stored horizontally and protected from vibration and shock.

List of Myxomycetes in NMW

Scientific name	Region				
	Wales	England	Scotland	Europe	extra-Europe
No. species per region	73	116	9	14	40
Amaurochaete atra (Alb. & Schwein.) Rostaf (Synonym = <i>A. fuliginosa</i>)		E			
<i>Amaurochaete fuliginosa</i> : Synonym of <i>A. atra</i> (Alb. & Schwein.) Rostaf					
<i>Arcyria carnea</i> : Synonym of <i>A. minuta</i> Buchet					
Arcyria cinerea (Bull.) Pers.	W	E			
Arcyria denudata (L.) Wettst.	W	E			
<i>Arcyria fulgens</i> [Status of name not known]					
Arcyria globosa Schwein.					ex
Arcyria incarnata (Pers. ex J.F. Gmel.) Pers.		E			ex
Arcyria minuta Buchet (Synonym = <i>A. carnea</i>)		E			
<i>Arcyria nutans</i> : Synonym of <i>A. obvelata</i> (Oeder) Onsberg					
Arcyria obvelata (Oeder) Onsberg (Synonym = <i>A. nutans</i>)	W	E			ex
Arcyria oerstedii Rostaf.	W	E			
Arcyria pomiformis (Leers) Rostaf.		E			
Badhamia foliicola Lister		E			
Badhamia lilacina (Fr.) Rostaf.			S		
Badhamia macrocarpa (Ces.) Rostaf.	W	E			ex
Badhamia nitens Berk.		E			
<i>Badhamia obovata</i> : Synonym of <i>Craterium obovatum</i> Peck					
Badhamia ovispora Racib.		E			
Badhamia panicea (Fr.) Rostaf.	W	E		Eur	
Badhamia populina Lister & G. Lister		E			
<i>Badhamia rubiginosa</i> v. <i>dictyospora</i> : Synonym of <i>Craterium dictyosporum</i> (Rostaf.) H.Neubert, Nowotny & K.Baumann					
<i>Badhamia rubiginosa</i> v. <i>globosa</i> : Synonym of <i>Craterium muscorum</i> Ing					
<i>Badhamia rubiginosa</i> : Synonym of <i>Craterium obovatum</i> Peck					
Badhamia utricularis (Bull.) Berk.	W	E			
Badhamia versicolor Lister			S		
Brefeldia maxima (Fr.) Rostaf.	W	E			
Calomyxa metallica (Berk.) Nieuwl.		E			
Ceratiomyxa fruticulosa (O.F. Müll.) T. Macbr. (Synonym = <i>C. fruticulosa</i> v. <i>porioides</i>)	W	E			ex
<i>Ceratiomyxa fruticulosa</i> v. <i>porioides</i> : Synonym of <i>C. fruticulosa</i> (O.F. Müll.) T. Macbr.					
Clastoderma debaryanum A. Blytt					ex
Collaria arcyrionema (Rostaf.) Nann.-Bremek. ex Lado					ex
Collaria lurida (Lister) Nann.-Bremek. (Synonym = <i>Comatricha lurida</i>)		E			
Collaria rubens (Lister) Nann.-Bremek.		E			
Colloderma oculatum (C. Lippert) G. Lister		E			
Comatricha alta Preuss	W				
<i>Comatricha flaccida</i> : Synonym of <i>Symphytocarpus flaccidus</i> (Lister) Ing & Nann.-Bremek.					
<i>Comatricha hyperopta</i> (invalid or doubtful name)					
<i>Comatricha irregularis</i> : Synonym of <i>Stemonaria irregularis</i> (Rex) Nann.-Bremek., R.Sharma & Y.Yamam.					

<i>Comatricha lurida</i> : <i>Synonym of Collaria lurida</i> (Lister) Nann.-Bremek.					
Comatricha nigra Pers. ex J.F. Gmel.) J. Schröt.	W	E			
Comatricha pulchella (C. Bab.) Rostaf. (Synonym = C. pulchella v. fusca)		E			
<i>Comatricha pulchella v. fusca</i> : <i>Synonym of Comatricha pulchella</i> (C. Bab.) Rostaf.					
<i>Comatricha typhoides</i> : <i>Synonym of Stemonitopsis typhina</i> (F.H.Wigg.) Nann.-Bremek.					
Craterium aureum (Schumach.) Rostaf.		E			
Craterium dictyosporum (Rostaf.) H.Neubert, Nowotny & K.Baumann (Synonym = Badhamia rubiginosa v.dictyospora)		E			
Craterium leucocephalum (Pers. ex J.F. Gmel.) Ditmar	W	E		Eur	
Craterium minutum (Leers) Fr.	W	E			
Craterium muscorum Ing (Synonym = Badhamia rubiginosa v. globosa)		E			
Craterium obovatum Peck (Synonyms = Badhamia obovata, B. rubiginosa)	W	E			ex
Cribraria argillacea (Pers. ex J.F. Gmel.) Pers.	W	E			
Cribraria aurantiaca Schrad.	W	E			
Cribraria cancellata (Batsch) Nann.-Bremek (Synonym = C. cancellata v. fusca)	W	E			ex
<i>Cribraria cancellata v. fusca</i> : <i>Synonym of C. cancellata</i> (Batsch) Nann.-Bremek					
<i>Cribraria dictyoides</i> : <i>Synonym of C. intricata</i> Schrad.					
Cribraria intricata Schrad. (Synonym = C. dictyoides)					ex
Cribraria languescens Rex					ex
Cribraria macrocarpa Schrad.	W		S		
Cribraria piriformis Schrad. (Synonym = C. piriformis v. notabilis)		E	S		
<i>Cribraria piriformis v. notabilis</i> : <i>Synonym of C. piriformis</i> Schrad.					
Cribraria rufa (Roth) Rostaf.	W	E			
Cribraria violacea Rex		E		Eur	
Cribraria vulgaris Schrad.	W				
Diachea leucopodia (Bull.) Rostaf.		E			ex
Diachea subsessilis Peck					
Dianema depressum (Lister) Lister		E			
Dictydiaethalium plumbeum (Schumach.) Rostaf.	W	E			ex
Diderma asteroides (Lister & G. Lister) G. Lister			S		
Diderma deplanatum Fr.		E			
Diderma effusum (Schwein.) Morgan	W	E			ex
Diderma floriforme (Bull.) Pers.		E			
Diderma hemisphaericum (Bull.) Hornem.	W	E			
Diderma lucidum Berk. & Broome	W				
Diderma ochraceum Hoffm.	W				
Diderma radiatum (L.) Morgan		E			
Diderma simplex (J. Schröt.) G. Lister		E			
Diderma spumarioides (Fr.) Fr.		E			
Diderma testaceum (Schrad.) Pers.		E			ex
<i>Diderma trevelyani</i> : <i>Synonym of Lepidoderma trevelyanii</i> (Grev.) Poulain & Mar.Mey.					
Didymium bahiense Gottsb.		E		Eur	
Didymium clavus (Alb. & Schwein.) Rabenh.		E			
Didymium crustaceum Fr.	W	E			
Didymium difforme (Pers.) Gray		E			
Didymium dubium Rostaf.		E			
<i>Didymium farinaceum</i> : <i>Synonym of D. melanospermum</i> (Pers.) T.Macbr.					
Didymium listeri Massee	W				

Didymium melanospermum (Pers.) T.Macbr. (Synonym = <i>D. farinaceum</i>)	W	E		Eur	
Didymium nigripes (Link) Fr.		E			
Didymium serpula Fr.		E			
Didymium squamulosum (Alb. & Schwein.) Fr. & Palmquist	W	E			
<i>Didymium trochus</i> : Synonym of <i>D. vaccinum</i> (Durieu & Mont.) Buchet					
Didymium vaccinum (Durieu & Mont.) Buchet (Synonym = <i>D. trochus</i>)		E			
Enerthenema papillatum (Pers.) Rostaf.		E			
<i>Enteridium olivaceum</i> : Synonym of <i>Reticularia olivacea</i> (Ehrenb.) Fr.					
Fuligo cinerea (Schwein.) Morgan		E			
<i>Fuligo cinerea v. ecorticata</i> : Synonym of <i>F. intermedia</i> T.Macbr.					
Fuligo intermedia T.Macbr. (Synonym = <i>F. cinerea v. ecorticata</i>)		E			
Fuligo muscorum Alb. & Schwein.	W	E	S		
Fuligo septica (L.) F.H. Wigg. (Synonym = <i>F. septica v. candida</i> & <i>v. rufa</i>)	W	E		Eur	ex
<i>Fuligo septica v. candida</i> : Synonym of <i>F. septica</i> (L.) F.H. Wigg.					
<i>Fuligo septica v. rufa</i> : Synonym of <i>F. septica</i> (L.) F.H. Wigg.					
Hemitrichia calyculata (Speg.) M.L. Farr	W				
Hemitrichia clavata (Pers.) Rostaf.	W	E			ex
Hemitrichia serpula (Scop.) Rostaf. ex Lister					ex
<i>Hemitrichia vesparium</i> : Synonym of <i>Metatrichia vesparia</i> (Batsch) Nann.-Bremek. ex G.W.Martin & Alexop.					
Lamproderma arcyrioides (Sommerf.) Rostaf. (Synonym = <i>L. violaceum</i>)		E			
Lamproderma columbinum (Pers.) Rostaf.	W	E			
Lamproderma echinulatum (Berk.) Rostaf.			S		
Lamproderma scintillans (Berk. & Broome) Morgan		E			
<i>Lamproderma violaceum</i> : Synonym of <i>L. arcyrioides</i> (Sommerf.) Rostaf.					
Leocarpus fragilis (Dicks.) Rostaf. (Synonym = <i>Leocarpus vernicosus</i>)	W	E			ex
Lepidoderma chailletii Rostaf.		E			
Lepidoderma tigrinum (Schrad.) Rostaf.	W				
Lepidoderma trevelyanii (Grev.) Poulain & Mar.Mey. (Synonym = <i>Diderma trevelyanii</i>)	W	E			
Leptoderma iridescens G. Lister		E			
<i>Leocarpus vernicosus</i> : Synonym of <i>Leocarpus fragilis</i> (Dicks.) Rostaf.					
Licea biforis Morgan (Synonym = <i>L. sinuosa</i>)	W	E			
Licea castanea G. Lister					
Licea erddigensis	W				
<i>Licea flexuosa</i> : Synonym of <i>L. variabilis</i> Schrad.					
Licea minima Fr.		E		Eur	
Licea operculata (Wingate) G.W.Martin (Synonym = <i>Orcadella operculata</i>)			S		
Licea parasitica (Zukal) G.W. Martin	W				
Licea pusilla Schrad.			S		
<i>Licea sinuosa</i> : Synonym of <i>L. biforis</i> Morgan					
Licea variabilis Schrad. (Synonym = <i>L. flexuosa</i>)		E			
<i>Lindbladia effusa</i> : Synonym of <i>L. tubulina</i> Fr.					
Lindbladia tubulina Fr. (Synonym = <i>L. effusa</i>)	W	E			
Lycogala epidendrum (L.) Fr. (Synonym = <i>L. terrestre</i>)	W	E		Eur	ex
Lycogala exiguum Morgan	W				
Lycogala flavofuscum (Ehrenb.) Rostaf.					ex
<i>Lycogala terrestre</i> : Synonym of <i>L. epidendrum</i> (L.) Fr.					
Metatrichia floriformis (Schwein.) Nann.-Bremek. (Synonym = <i>Trichia floriformis</i>)	W				

Metatrichia vesparia (Batsch) Nann.-Bremek. ex G.W.Martin & Alexop. (Synonym = Hemitrichia vesparium)	W	E			
Mucilago crustacea F.H.Wigg. (Synonym = M. spongiosa)	W	E		Eur	ex
<i>Mucilago spongiosa: Synonym of M. crustacea F.H.Wigg.</i>					
Oligonema schweinitzii (Berk.) G.W. Martin		E			
<i>Orcadella operculata: Synonym of Licea operculata (Wingate) G.W.Martin</i>					
Perichaena corticalis (Batsch) Rostaf.	W	E			
Perichaena depressa Lib.	W	E			
Perichaena strobilina (invalid or doubtful name)					
<i>Perichaena strobilina: Synonym of invalid or doubtful name</i>					
Perichaena vermicularis (Schwein.) Rostaf.	W				
Physarella oblonga (Berk. & M.A. Curtis) Morgan					ex
Physarum album (Bull.) Chevall. (Synonym = P. nutans)	W	E			
Physarum bitectum G. Lister		E			
Physarum bivalve Pers. (Synonym = P. sinuosum)		E		Eur	ex
Physarum carneum G. Lister & Sturgis		E			
Physarum cinereum (Batsch) Pers.	W	E		Eur	ex
Physarum citrinum Schumach.		E			
Physarum compressum Alb. & Schwein.		E			
Physarum contextum (Pers.) Pers.		E			ex
Physarum didermoides (Pers.) Rostaf.		E			
Physarum globuliferum (Bull.) Pers.					ex
Physarum gyrosum Rostaf.		E			
Physarum leucophaeum Fr. & Palmquist	W				ex
Physarum leucopus Link		E			
<i>Physarum listeri: Synonym of P. schroeteri Rostaf.</i>					
Physarum murinum Lister	W				
Physarum mutabile (Rostaf.) G. Lister		E			
<i>Physarum nutans: Synonym of P. album (Bull.) Chevall.</i>					
Physarum psittacinum Ditmar	W				
Physarum pusillum (Berk. & M.A. Curtis) G. Lister	W	E			
Physarum schroeteri Rostaf. (Synonym = P. listeri)		E			
<i>Physarum sinuosum: Synonym of P. bivalve Pers.</i>					
Physarum straminipes Lister		E			
Physarum vernum Sommerf.	W	E			
Physarum virescens Ditmar		E			
Physarum viride (Bull.) Pers.		E			ex
Prototrichia metallica (Berk.) Masee		E			
Reticularia jurana Meyl.	W	E			
Reticularia lycoperdon Bull.	W	E			
Reticularia olivacea (Ehrenb.) Fr. (Synonym = Enteridium olivaceum)		E			
Stemonaria irregularis (Rex) Nann.-Bremek., R.Sharma & Y.Yamam. (Synonym = Comatricha irregularis)					ex
Stemonitis axifera (Bull.) T. Macbr. (Synonym = S. ferruginea)		E			ex
<i>Stemonitis ferruginea: Synonym of S. axifera (Bull.) T. Macbr.</i>					
Stemonitis flavogenita E. Jahn	W	E			
Stemonitis fusca Roth (Synonym = S. nigrescens)	W	E			
<i>Stemonitis nigrescens: Synonym of S. fusca Roth</i>					
Stemonitis splendens Rostaf.	W				ex

Stemonitopsis typhina (F.H.Wigg.) Nann.-Bremek. (Synonym = Comatricha typhoides)	W	E			ex
Symphytocarpus amaurochaetoides Nann.-Bremek.	W				
Symphytocarpus flaccidus (Lister) Ing & Nann.-Bremek. (Synonym = Comatricha flaccida)	W	E			
Symphytocarpus herbaticus Ing	W				
Symphytocarpus trechisporus (Berk. ex Torrend) Nann.-Bremek.					ex
Trichia affinis de Bary	W	E			
Trichia botrytis (J.F. Gmel.) Pers.	W	E			
Trichia contorta (Ditmar) Rostaf.		E			
Trichia decipiens (Pers.) T. Macbr.	W	E		Eur	ex
Trichia favoginea (Batsch) Pers.		E		Eur	ex
<i>Trichia floriformis: Synonym of Metatrichia floriformis (Schwein.) Nann.-Bremek.</i>					
Trichia persimilis P. Karst.	W	E			ex
Trichia scabra Rostaf.	W	E			ex
Trichia varia (Pers. ex J.F. Gmel.) Pers.	W	E			ex
Trichia verrucosa Berk.	W	E			
<i>Tubifera ferruginea: Synonym of T. ferruginosa (Batsch) J.F. Gmel.</i>					
Tubifera ferruginosa (Batsch) J.F. Gmel. (Synonym = T. ferruginea)	W	E		Eur	ex