

BIO414 (CRYPTOGAMIC BOTANY II)

WEEK 4

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CLASSIFICATION OF LICHENS

Lichens are classified by the fungal component. Lichen species are given the same scientific name (binomial name) as the fungus species in the lichen.

Lichens are being integrated into the classification schemes for fungi.

The alga bears its own scientific name, which bears no relationship to that of the lichen or fungus.

There are about 13.500–17.000 identified lichen species. Nearly 20% of known fungal species are associated with lichens.

Group: Lichenized Ascomycete Fungi

Division: Ascomycota

Subdivision: Pezizomycotina

Class: Arthoniomycetes

Order: Arthoniales

Family: Chrysothricaceae

Family: Arthoniaceae

Family: Roccellaceae

Class: Dothideomycetes

Order: Capnodiales

Family: Antennulariaceae

Order: Patellariales

Family: Patellariaceae

Order: Trypetheliales

Family: Trypetheliaceae

Family: Arthopyreniaceae

Family: Dacampiaceae

Family: Lichenotheliaceae

Family: Mycoporaceae

Family: Naetrocymbaceae

Class: Eurotiomycetes

Order: Pyrenulales

Family: Celotheliaceae

Family: Pyrenulaceae

Order: Verrucariales

Family: Adelococcaceae

Family: Verrucariaceae

Order: Mycocalicales

Family: Mycocaliciaceae

Family: Sphinctrinaceae

Class: Lichinomycetes

Order: Lichinales

Family: Gloeopheppiaceae

Family: Heppiaceae

Family: Lichinaceae

Family: Peltulaceae

Class: Lecanoromycetes

Order: Acarosporales

Family: Acarosporaceae

Order: Candelariales

Family: Candelariaceae

Order: Rhizocarpales

Family: Rhizocarpaceae

Order: Lecideales

Family: Lecideaceae

Order: Peltigerales

Family: Collematineae

Family: Coccocarpiaceae

Family: Collemataceae

Family: Placynthiaceae

Family: Pannariaceae

Family: Peltigerineae

Family: Lobariaceae

Family: Nephromataceae

Family: Massalongiaceae

Family: Vahliellaceae

Order: Lecanorales

Family: Catillariaceae

Family: Psoraceae

Family: Gypsoplacaceae

Family: Pilocarpaceae

Family: Cladoniaceae

Family: Stereocaulaceae

Family: Sphaerophoraceae

Family: Calycidiaceae

Family: Mycoblastaceae

Family: Ramalinaceae

Family: Scoliciosporaceae

Family: Haematommataceae

Family: Lecanoraceae

Family: Parmeliaceae

Family: Dactylosporaceae

Family: Miltideaceae

Family: Pachyascaceae

Order: Teloschistales

Family: Physciineae

Family: Physciaceae

Family: Brigantiaeaceae

Family: Letrouitiaceae

Family: Teloschistaceae

Family: Megalosporaceae

Order: Sarrameanales

Family: Sarrameanaceae

Order: Pertusariales

Family: Agyriaceae

Family: Coccotremataceae

Family: Icmadophilaceae

Family: Megasporaceae

Family: Ochrolechiaceae

Family: Pertusariaceae

Order: Baeomycetales

Family: Anamylopsoraceae

Family: Baeomycetaceae

Order: Trapeliales

Family: Trapeliaceae

Order: Ostropales

Family: Odontotremataceae

Family: Stictidaceae

Family: Coenogoniaceae

Family: Porinaceae

Family: Sagiolechiaceae

Family: Gyalectaceae

Family: Phlyctidaceae

Family: Gomphillaceae

Family: Solorinellaceae

Family: Graphidaceae

Family: Thelotremataceae

Family: Myeloconidaceae

Family: Phaneromycetaceae

Family: Arthrorhaphidaceae

Family: Hymeneliaceae

Family: Protothelenellaceae

Family: Fissurinaceae

Family: Thelenellaceae

Family: Fuscideaceae

Family: Ophioparmaceae

Family: Umbilicariaceae

Family: Lopadiaceae

Family: Aphanopsidaceae

Family: Biatorellaceae

Family: Coniocybaceae

Family: Microcaliciaceae

Family: Epigloeaceae

Family: Lyrommataceae

Family: Melaspileaceae

Family: Monoblastiaceae

Family: Sarcopyreniaceae

Family: Strigulaceae

Family: Thelocarpaceae

Family: Vezdaeaceae

Family: Xanthopyreniaceae

Division: Basidiomycota

Subdivision: Agaricomycotina

Class Agaricomycetes

Order: Agaricales

Family: Hygrophoraceae

Order: Cantharellales

Family: Clavulinaceae

Order: Corticiales

Family: Lepidostromataceae

REFERENCES

Hodkinson BP.2012. An evolving phylogenetically based taxonomy of lichens and allied fungi. *Opuscula Philolichenum*, 11: 4-10.

Url1. <https://en.wikipedia.org>.