

Nomenclature-Binomial system of nomenclature, rules of nomenclature, classification of fungi. Key to divisions and sub-divisions

Taxonomy and Nomenclature

Nomenclature is the naming of organisms. Both classification and nomenclature are governed by International code of Botanical Nomenclature, in order to devise stable methods of naming various taxa, As per binomial nomenclature, genus and species represent the name of an organism. Binomials when written should be underlined or italicized when printed. First letter of the genus should be capital and is commonly a noun, while species is often an adjective. An example for binomial can be cited as:

Kingdom = Fungi

Division = Eumycota

Subdivision = Basidiomycotina

Class = Teliomycetes

Order = Uredinales

Family = Pucciniaceae

Genus = *Puccinia*

Species = *graminis*

Classification of Fungi

An outline of classification (G.C. Ainsworth, F.K. Sparrow and A.S. Sussman, The Fungi Vol. IV-B, 1973)

Key to divisions of Mycota

Plasmodium or pseudoplasmodium present. MYXOMYCOTA

Plasmodium or pseudoplasmodium absent, Assimilative phase filamentous.

EUMYCOTA

MYXOMYCOTA

Class: Plasmodiophoromycetes

1. Plasmodiophorales Plasmodiophoraceae *Plasmodiophora*, *Spongospora*, *Polymyxa*

Key to sub divisions of Eumycota

Motile cells (zoospores) present, ... MASTIGOMYCOTINA Sexual spores

typically oospores Motile cells absent

Perfect (sexual) state present as

Zygosporangia... ZYGOMYCOTINA

Ascospores... ASCOMYCOTINA

Basidiospores... BASIDIOMYCOTINA

Perfect (sexual) state not seen ... DEUTEROMYCOTINA

Classification of Fungi

