

Classification of fungi:

Classification: is the systematic arrangement of organisms into groups based on specific standards.

Standard Endings:

Phylum	.....	mycota
Sub phylum	.....	mycotina
Class	.....	mycetes
Subclass	.....	mycetidae
Order	.....	ales
Family	.....	aceae

The fungal characteristics that use in Classification:

- ❖ Cell wall
- ❖ The cell wall chemical component
- ❖ Somatic phase
- ❖ Reproduction
- ❖ Nutrition
- ❖ The structural that formed by fungi
- ❖ Fruiting bodies
- ❖ Spores

Fungal Webster, Weber and Hibbett Classification (2007):

1- Kingdom : protozoa (protista)

Phylum : myxomycota

Phylum : plasmodiophoromycota

2- Kingdom : Chromista (Stramenopila)

Phylum : Hyphochytriomycota

Phylum : Labrinthulomycota

Phylum : Oomycota

3- Kingdom : Fungi

Phylum : Chytridiomycota

Phylum : Zygomycota

Phylum : Ascomycota

Phylum : Basidiomycota

Phylum : Deutromycota

Kingdom: Fungi

Phylum: Ascomycota

Class 1: Taphrinomycetes

Order: Taphrinales

Family 1: Taphrinaceae

Ex: *Taphrina deformans*

Family 2: Protomyctaceae

Ex: *Protomyces macrospores*

Class 2: Schizosaccharomycetes

Order: Schizosaccharomycetales

Family: Schizosaccharomycetaceae

Ex 1: *Schizosaccharomyces* sp.

Ex 2: *Pneumocystis* sp.

Class 3: Saccharomycetes

Order: Saccharomycetales

Ex: *Saccharomyces cerevisiae*

Class 4: Pezizomycetes

Order: Pezizales

Ex: *Peziza* sp.

Class 5: Sordariomycetes

Order: Hypocreales

Family: Nectriaceae

Ex 1: *Nectria* sp.

Ex 2: *Fusidium coccineum*

Class 6: Eurotiomycetes

Order: Eurotiales

Ex 1: *Penicillium digitatum*

Ex 2: *Penicillium expansum*

Ex 3: *Penicillium chrysogenum*

Ex 4: *Aspergillus flavus*

Class 7: Sordariomycetes

Order: Sordariales

Family: Sordariaceae

Ex 1: *Neurospora* sp.

Ex 2: *Podospora* sp.

Ex 3: *Sordaria* sp.

Family: Chaetomiaceae

Ex: *Chaetomium* sp.

Order: Hypocreales

Family: Cordycipitaceae

Ex: *Cordyceps* sp.

Family: Clavicipitaceae

Ex: *Claviceps purpurea*

Class 8: Leotiomyces

Order: Erysiphales

Family: Erysiphaceae

Class 9: Leotiomyces

Order 1: Helotiales

Family: Sclerotinaceae

Ex 1: *Monilina* sp.

Ex 2: *Sclerotinia sclerotiorum*

Ex 3: *Botrytis cinerea*

Order 2: Tuberales

Family: Terfeziaceae

Ex: *Terfezia* sp.

Class 10: Dothideomycetes

Order: Pleosporales

Family: pleosporaceae

Ex: *Pleospora* sp.

Family: Venturiaceae

Ex: *Venturia inaequalis*

Class 11: Laboulbeniomycetes

Order: Laboulbeniales

Family: Laboulbeniaceae

Ex: *Laboulbenia cristata*

Phylum: *Basidiomycota*

Class: Homobasidiomycetes

Order 1: Agaricales

Family 1: Agaricaceae

Ex: *Agaricus* sp.

Family 2: Amanitaceae

Ex: *Amanita muscaria*

Family 3: Boletaceae

Ex: *Boletus* sp.

Order 2: Lycoperdales

Family: Lycoperdaaceae

Ex: *Lycoperdron* sp.

