

" Kingdom Protista "

3-Fungus like – Protists ((lower fungi)).

- 1- The slime molds.**
- 2- The water molds.**
- 3- The downy Mildews.**

3- Fungus like protists:

What are fungus like protists?

They are slime molds, water molds, and downy mildews, which that fungus like Protists.

They are:

1. Heterotrophs, decomposer of organic material to obtain their energy.
2. There are three Phyla of fungus like protists. Two of these Phyla consist of slime molds.
3. Slime molds have characteristics of both Protozoans and fungi, they classified by the way of they reproduce. Water mold and downy mildews make up the third phyla.

1. Slime molds:

They are Plasmodial slime molds or cellular slime molds, which belong to two phylum, myxomycota and Acrasiomycota.

1. They are beautifully colored, yellow, orange, blue, violet, black, and white.
2. They live in a cool moist shady places.
3. Slime molds make spores to reproduce which that is similar of fungal reproduction, other kind of slime molds animal – like during much of their life cycle, moving and engulfing food in away similar to that of amoebas.
4. Slime molds get their name from the fact that they form aplasmodium [a mass of cytoplasm] that contains many diploid nuclei.
5. They have no cell walls or membrans.

6. Plasmodium transforms itself into many separate, stalked, spore – producing structures, meiosis takes place within these structures and produce haploid spores germinates, into either aflagellated or an amoeboid cells or agamet, that can fuse with another cell to form zygote [diploid] which grows into a new plasmodium.
7. Cellular slime molds spend part of their life cycle as a independent amoeboid cell that feeds grows, and divides by cell division; cellular slime molds are haploid during their entire life cycle.

2. Water molds and Downy mildews:

They are both members of the Phylum Oomycota.

1. They live in water or moist places, some feed on Dead organisms and others are plant parasites.
2. They resemble some fungi because they grow amass of threads over a food source, they digest by absorption the nutrients.
3. They reproduce by flagellates cells.
4. They cause disease in many plants, Ex. Phytophthora infestans, Pythium debaryanum, which is destroyed the potatoes crop. Most water molds appear as Fuzzy, white, growths on decaying matter.

Origin of protists:

How are the many different kinds of Protists related to each other and to fungi, plants, and animals? Taxonomists are now compare the RNA and DNA of these groups. They are founded the relationships between each other of the protists. Schematic Drawing which appear the relationships between the Protists.

The End