

Q. Classification of fungi

Ans - C.J. Alexopoulos has given the classification of fungi in the following way :-

Myota (Division)

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Myxomycotina

↓
single class

↓
Myxomycetes

- 1) Multinucleate mass of protoplasm called plasmodium.
- 2) Plasmodium lacks definite cell wall, thus is amoeboid in shape.
- 3) Free living diploid & haplontic holocarpic.

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Eumycotina

It is divided into 3 classes of chytridiomycetes.

- 1) Members have a single flagellum of whiplash type inserted at the posterior end.
- 2) Hyphochytridiomycetes.
1) Members have a single flagellum of tinsel type inserted at the ant. anterior end.
- 3) Plasmodesmophomycetes -
1) Members are

4. Oomycetes —

- a) Members are biflagellate, but flagella are of equal length.

5. Zygomycetes

- a) Motile cells are absent.
- b) Asexual septa takes place by sporangiospores.

6. Trichomyces

- a) Asexual spores are produced in conidia.

7. Ascomycetes —

- a) spores of the sexual stage are ascospores which are produced in Asci.

8. Basidiomycetes

- a) spores of the sexual stage are basidiospores, which are produced in Basidium.

9. Dentromycetes

- Sexual or perfect stage is unknown.

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