Lecture 10

Pathogenesis of fungi

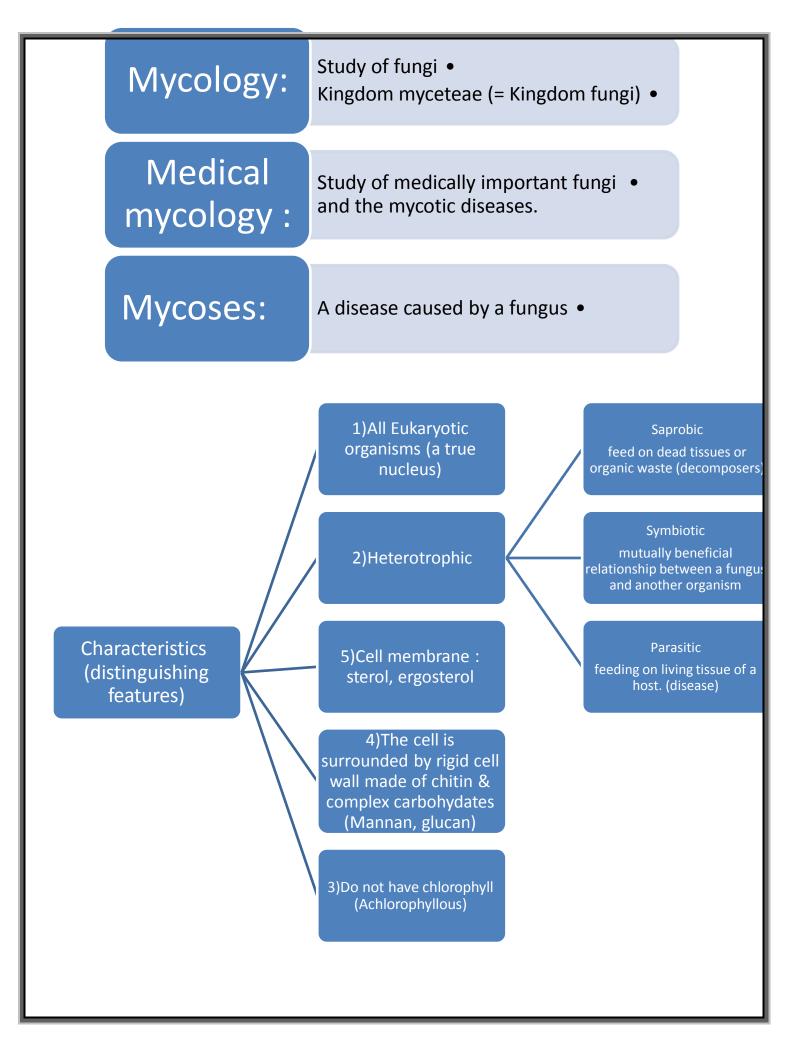


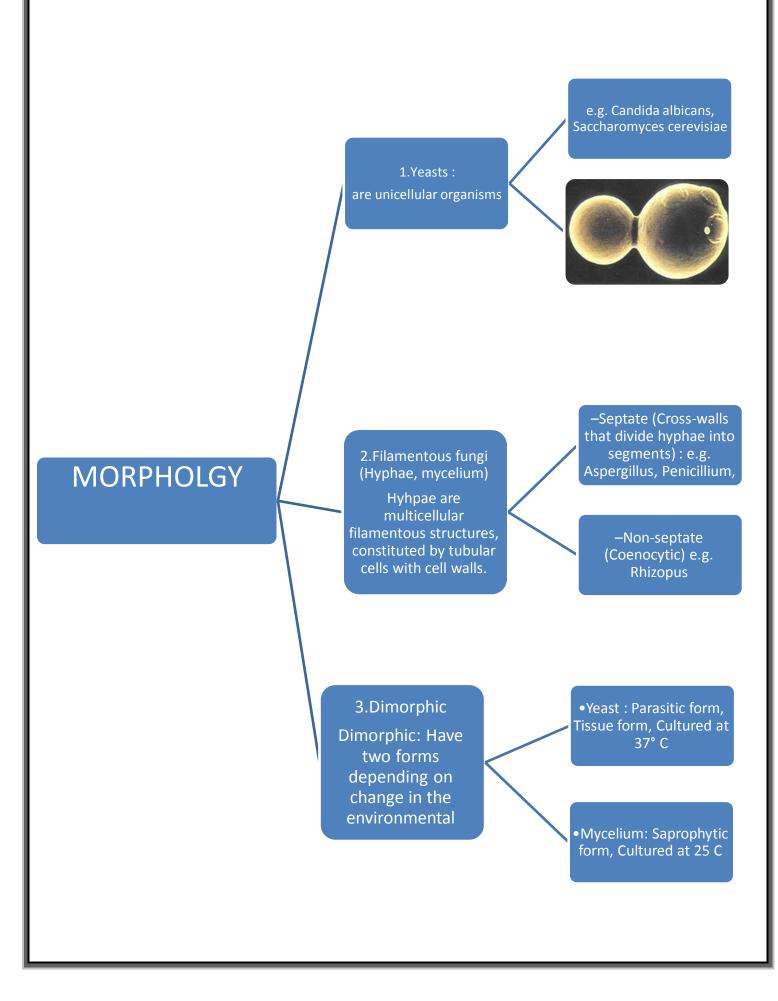
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(Foundation Block, Microbiology)

Lecture Objectives..

To describe the general characteristics of fungi and recognize a fungus from all other living organisms
To establish familiarity with the terminology needed by medical students
To know certain fundamental facts about classification and identification of fungi





Filamentous fungi (Mould=Mold)

A hypha (plural hyphae)

is a long, branching filamentous cell. hyphae are the main mode of vegetative growth.

Mycelium:

The intertwined mass of hyphae that forms the fungal colony.

Conidia (singular = conidium):

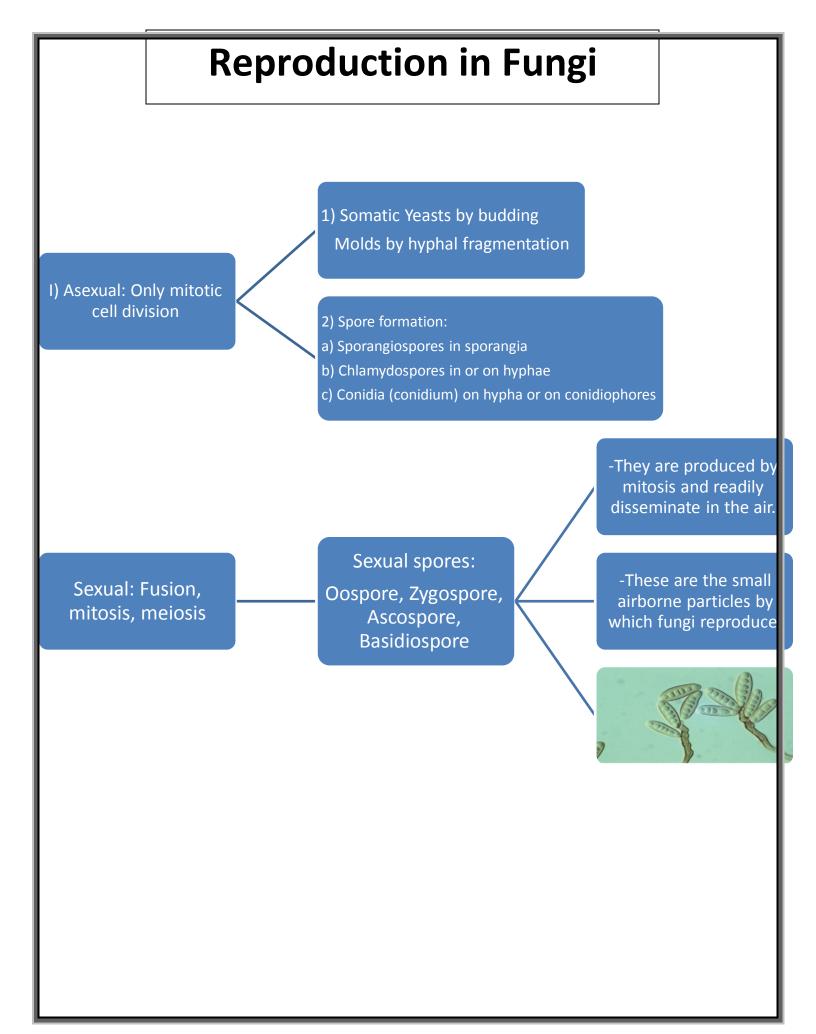
asexual spores borne externally on hyphae or on a conidiophore.

Conidia (singular = conidium): asexual spores borne externally on hyphae or on a conidiophore.

Conidiophore: the specialized hyphal stalk on which conidia develop either singly or in Clusters.

Septa:

Cross-walls (septa) that divide hyphae into segments. If there are no cross-walls, the hyphae are considered to be non-septate.



General facts:

- 1. Fungi are all around us
- 2. Fungi play an important role in our ecosystem They decompose and recycle things on earth, decomposers of organic matter (clean the environment) Add nutrients to soil to help sustain plant life
- 3. Some fungi are used for producing antibiotics, and other medications.
- 4. We use fungi as source of food and also in cooking e.g. Mushrooms, Truffles Saccharomyces cerevisiae

fungi can cause diseases to humans Cause superficial infections some can cause allergic reactions Few cause invasive infections .

To cause the disease:

- 1.Thermotolerance
- 2. Ability to survive in tissue environment
- 3. Ability to withstand host defenses