The Fungi Kingdom

Mycology - the study of fungi fungi - singular fungus - plural

4 Main Characteristics of Fungi

- 1) Fungi are eukaryotic
 - ·they have a nuclei & mitochondria
- 2) They are heterotrophs
 - ·they depend on other organisms for food
- 3) They are multicellular
- 4) They cannot move on their own

The Fungi Kingdom 3 Reasons Fungi Are Different From Plants

1) Fungi lack chlorophyll

2) Fungi do not make their own food through photosynthesis

3) They never reproduce by seeds

The Fungi Kingdom Main Types of Fungi:

1. Common molds

·Eg: Bread Mold, Peronospore

·Bread mold produces spores that stick up above the bread

Spraying with blue vitriol





The Fungi Kingdom Types of Fungi

2. Sac Fungi - produce spores in sac-like structures







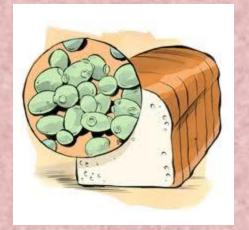
Eg: yeasts, cup fungi, powdery mildews, Penicillinum







Unicellular, reproduces by budding







Sac fungi



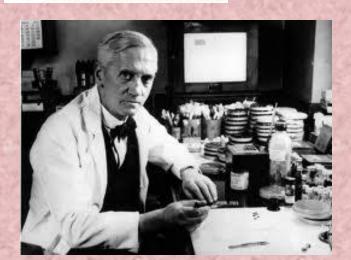
Morels





marked by red, itchy patches and white flaking skin.



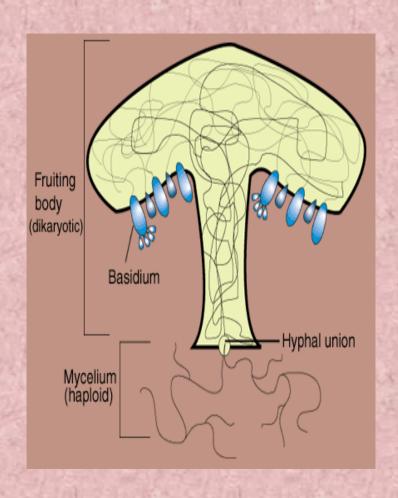


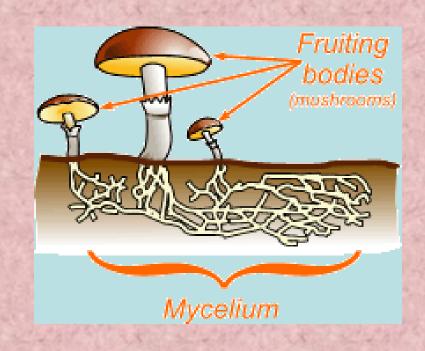
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Sir Alexander Flemming-penicillin

3. Club Fungi

- Examples: Mushrooms, toadstools
- Most elaborate life cycle of all the fungi





Club fungi

Jack-o'-lantern



Earth



Brackets



Puffballs





Club fungi



Champignon





Toadstool



Eg: Death cap



Fungi Reproduction:

Fungi are categorized based on their fruiting structures (spores).

- •The structure of the fungi that you can see, is the part that carries out reproduction
- ·Most fungi reproduce by using spores
- ·Fungi spores are microscopic

Obtaining Energy

Saprophytic-From decaying organic matter

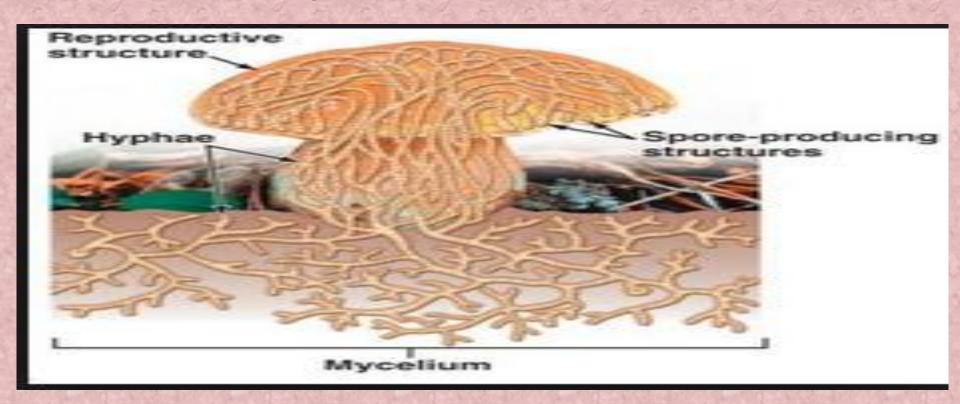
Parasitic-Feed on other living organisms(host) and harm the host.

Symbiotic-Feed on other living organisms(host) and do *not* harm the host.

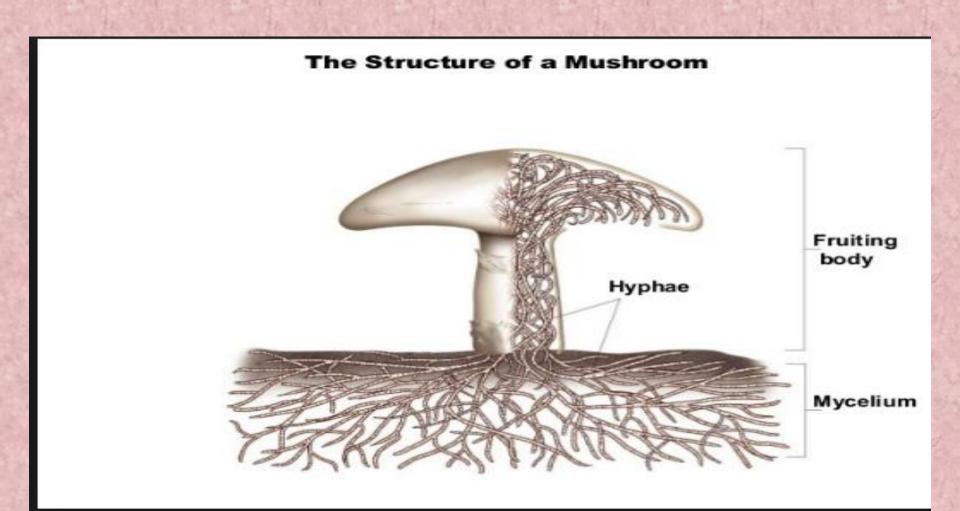
Fungi do not have roots, but instead use hyphae.

Hyphae-long fibrous strands to obtain water and nutrients

Mycelium-a group of hyphae



Hyphae will grow towards stimuli, like food and water.



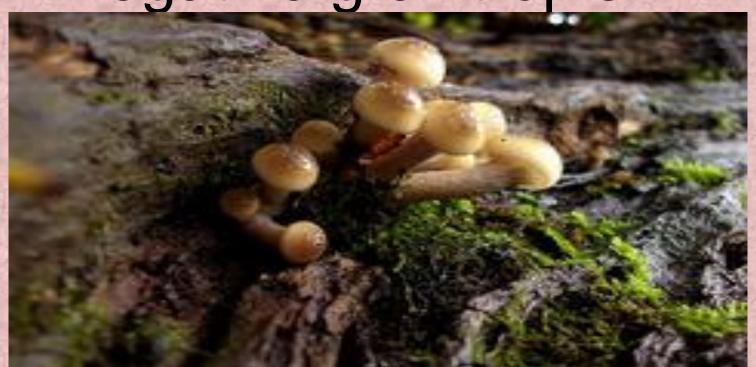
PHOTOTROPISM

Fungi will grow in reponse to light



GRAVITROPISM

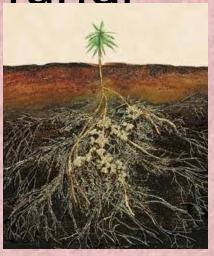
Fungi will grow will away from gravity, but tend to show negative gravitropism.



Extra Info-Importance of fundi







- -Can cause diseases to plants, to animals or even humans
- -Can be edible or poisonous
- -Can be useful for alimentary, distilling and pharmaceutical industry







