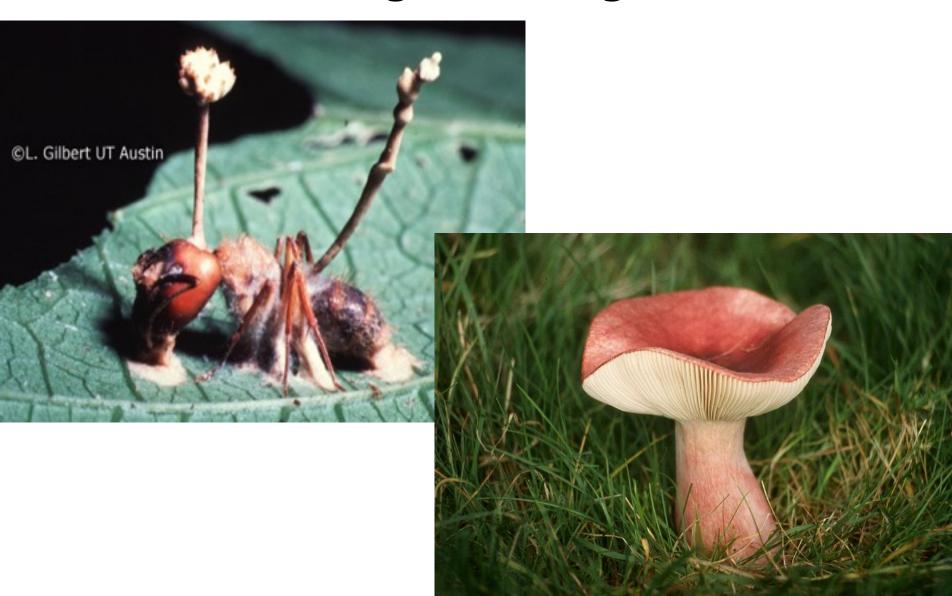
Kingdom Fungi



Characteristics of Fungi

- eukaryotic
- most are multicellular
- cell walls (made of chitin)
- live on substrate / stationary
- heterotroph (how do they eat?)
- don't store energy
- has mycelium



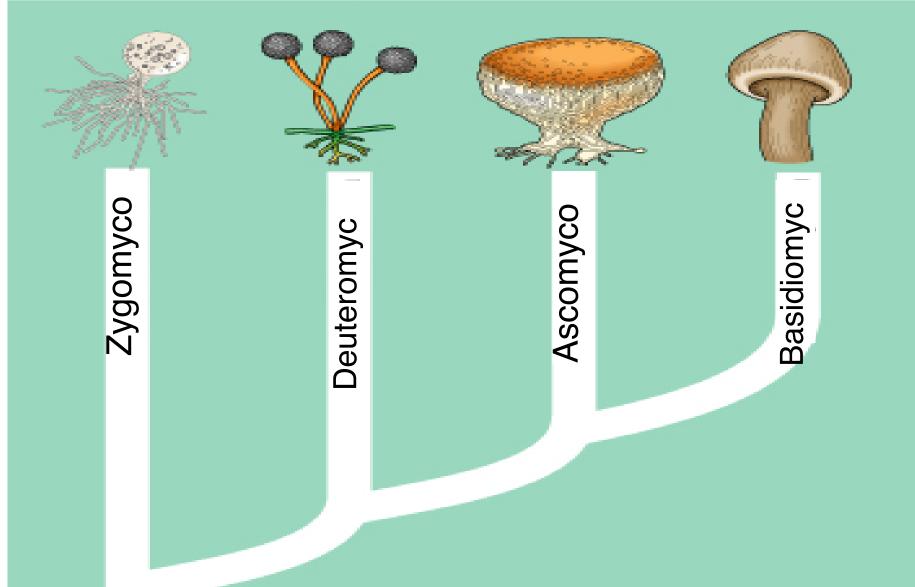
How does Fungi absorb nutrients?

- The main structure is network of Mycelium (microscopic branches are called hypha)
- hypha excrete enzymes onto dead substrate
- hypha absorb digested nutrients
- digestion is extracellular





Fungal Classification



Deuteromycota (imperfect fungus)

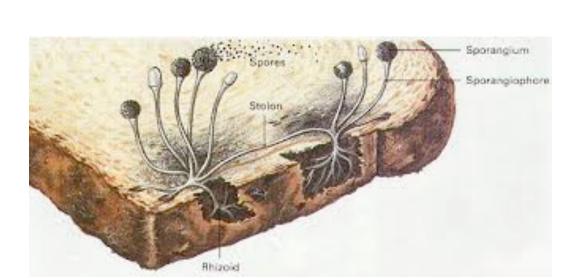
- Produce only asexual spores
- Very common
- Eg. ringworm, athletes foot, Penicillin

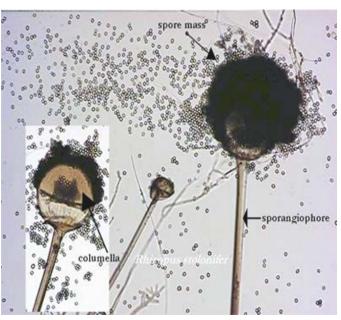


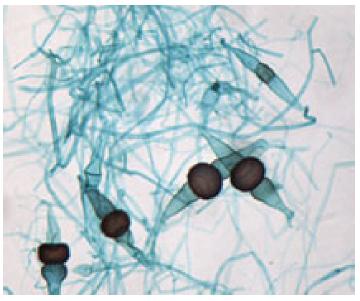


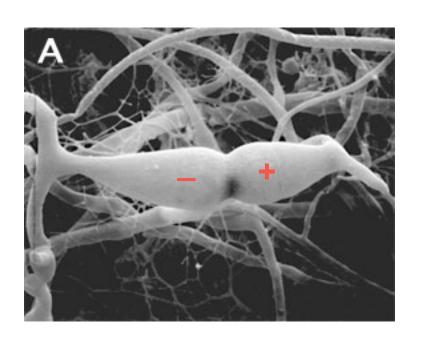
Zygomycota

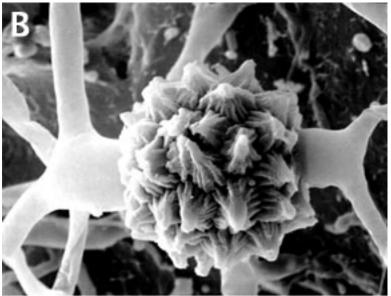
- Produce asexual spores**
- Produce sexual zygospores
- Appear as small fuzzy black dotted mould
- Eg. Black spotted bread mould







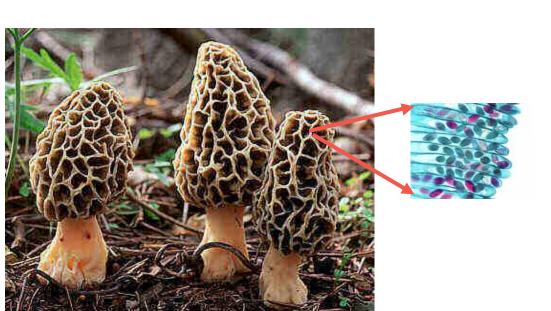




**Ascomycota

- Produce asexual spores
- Produce sexual spores in a sac

Eg. yeast, powdery mildew, morels







Basidiomycota

- Produce sexual reproductive structures or fruiting bodies
- Basidiospores





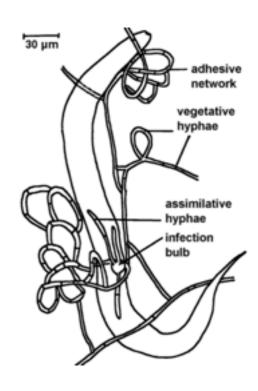




Fungal Roles in the Environment

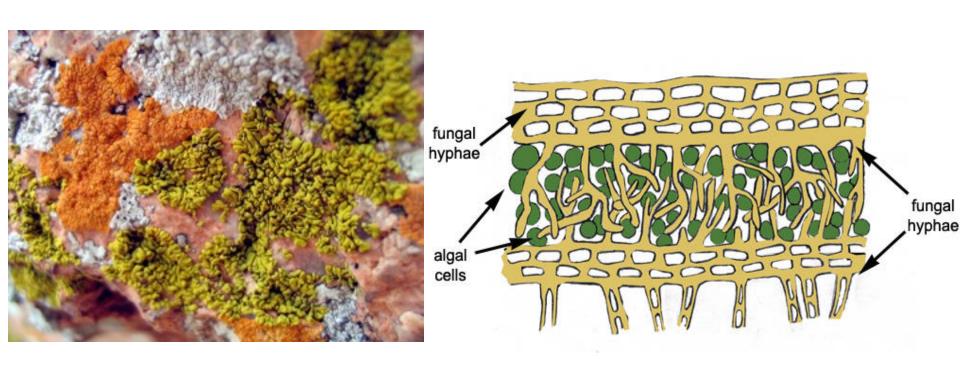
Predatory Fungi- catches and kills prey





Fungal Roles in the Environment

Mutualistic Fungi- work together with other species in a beneficial way ex. Lichen = protista algae + fungi



Fungal Roles in the Environment

Saprophytic Fungi- live on dead and decaying material in the environment (recyclers)

