

*Glomeromycota, Zygomycota, and Chitridiomycota*

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Kingdom: Fungi

Phylum:

Glomeromycota

1) *Glomus*

-displays - hyphae with vesicles, chlamydospores

-Make a slide of leek roots - spread roots out well

Zygomycota

1) *Gilbertella*- Sporangia and zygospores

-look at plate under compound scope without coverslip

2) *Pilobolus*- shoots sporangia toward light

-look for trophocysts and sporangia

3) *Rhizopus* - sporangia and zygospores

4) *Basidiobolus*- look for sporangia in folds

-look for sprangia shot from agar blocks

Chitridiomycota

1) *Allomyces*

-young sporophalli - bifurcated

-mature sporophalli - zoosporangia, resistant sporangia\

-meiosporangia/gametangia - male and female

2) *Spizellomyces*

-thallus with rhizoids - zoospore release

-thallus growing on pollen grains

Things you should know:

-*Gilbertella* life cycle

-*Allomyces* life cycle

-Arbuscular mycorrhizae/endomycorrhizae, different structures

-reproductive structure in Zygomycota and Chitridiomycota

-differences between orders