

## Week 2, Fungus lecture 2

PB102/IB101/ September 8, 2009

Raven et al. 2005, pp. 240-266 (intro to Fungi) 272-282 (basids), 291-294 (mycorrhizae)

### Basidiomycota

Basidiomycota lineages, Hymenomycete, Urediniomycete (rust), Ustilaginomycete (smut)

Coprinus life cycle, dikaryotic mitosis and “clamps”

Basidiospore formation and discharge

Basidium types

Genetic control of mating

### Ascomycota introduction

Ascomycota lineages

Ascus

Numbers of fungi and missing Deuteromycota, lichens

Ascomycota life cycle

### Taphrinomycotina (Early diverging Ascomycota)

### Hemiascomycotina (Yeasts)

Life cycle

Mating type and switching

Natural history

Fermentation

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