

Week 3, Fungus lecture 3

PB102/IB101/ September 10, 2009

Raven et al. 2005, pp 269-272 (ascos), 282-285 (yeasts and conidial fungi), 285-290 (lichens)

Ascomycota introduction

Ascomycota lineages

Ascus

Numbers of fungi and “missing” Deuteromycota, lichens

Ascomycota life cycle

Taphrinomycotina (Early diverging Ascomycota)

Saccharomycotina (Yeasts)

Life cycle

Mating type and switching

Natural history

Fermentation

Candida: human disease and hyphal “yeasts”

Pezizomycotina, Filamentous Ascomycota with ascoma.

Apothecial Pezizomycotina

Aleuria

Ascobolus

Morchella, morel, edible fungi

Tuber

animal dispersal

chemical communication

Lichenized apothecial Pezizomycotina

Habitat range

Morphology

Reproduction

Perithecial Pezizomycotina (Sordariomycetes)

Neurospora

Life cycle

Ascus development: Croziers v. clamp connections

Natural History

Perithecial Pezizomycotina (more than *Neurospora*, more Sordariomycetes)

Xylaria, wood rot

Claviceps, Ergot

Ophiostoma, Dutch elm disease

John Taylor, 321 Koshland Tues 11-12noon, 642-5366, jtaylor@berkeley.edu

Ode to a nightingale

John Keats

. . . O, for a draught of vintage! that hath been
Cool'd a long age in the deep-delved earth,
Tasting of Flora and the country green,
Dance, and Provencal song, and sunburnt mirth!
O for a beaker full of the warm South,
Full of the true, the blushful Hippocrene,
With beaded bubbles winking at the brim,
And purple-stained mouth;
That I might drink, and leave the world unseen,
And with thee fade away into the forest dim . . .