

Week 3, Fungus lecture 4

PB102/IB101/ September 15, 2009

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

Ascomycota, continued...

Perithecial Pezizomycotina (Sordariomycetes)

Neurospora

Life cycle, protoperithecia, trichogynes and ascogenous hyphae

Ascus development: Croziers

More Perithecial Pezizomycotina

Xylaria
wood rot

Claviceps
Ergot

Ophiostoma
Dutch elm disease

Fissitunicate Pezizomycotina (an independent evolution of a perithecium-like fruiting body)

Sporormiella

Fissitunicate ascus, jack-in-the-box ascus

Cochliobolus heterostrophus, Southern corn leaf blight

Mitospores (condida), toxins

Cleistothecial Pezizomycotina (Eurotiomycetes, a second closed fruting body, after Tuber)

Eurotiales
Eurotium/Aspergillus life cycle

Sexual and asexual spores

Aspergillus oryzae and food

Aspergillus flavus and toxins

Penicillium chrysogenum and antibacterial toxins

Penicillium camembertii and *P. roquefortii* and food

Onygenales

Fungi causing disease of mammals

Systemic mycoses

Dermatormycoses

Opportunistic mycoses

Cleistothecial Pezizomycotina, Erysiphales or powdery mildews (a third closed fruiting body, after Tuber and the Eurotiomycetes)

Phyllactinia cleistothecia

Cystotheca conidia.

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

Ascomycete

Ascomycete's a fungus: by Jove, a

Few cells (**ascogonium's** ova)

With an **ascomycetous-**

Type etiquette, greet us

As if we were Jack Casanova.

-SheilaB and Scott Campisi

This verse is written from the point of view of the antheridium, the sperm-producing organ, and its happy spermatozoa. Ascomycete (as-co-MY-ceed): a type of fungus. Ascogonium (as-co-GO-ni-um): the ovary of the fungus. Ascomycetous (AS-co-my-CEED-us): pertaining to this fungus. Giacomo Casanova was a famous 18th Century lover.

From: OEDILF: The Omnificent English Dictionary In Limerick Form

<http://www.oedilf.com/db/Lim.php?Word=ascomycete>