## Ascomycetes in lab tomorrow

- Quiz (Lab manual pages 27-33 'Oomycetes' and intro pages for Ascos I (pp. 35-36) and Ascos II (pp.43-44)
- Look at Ascomycete diseases signs and symptoms
- Key out powdery mildew pathogens
- Finish up Disease of the week

## **Ascomycetes**

- Haploid (but cells can be multi-nucleate)
- Septate hyphae (frequent cross walls)
- Cell walls made of chitin
- Sexual spore: ascospore

(product of meiosis)

• Asexual spore: conidia

(product of mitosis)



## Ascospores

Produced in an ascus (sac)

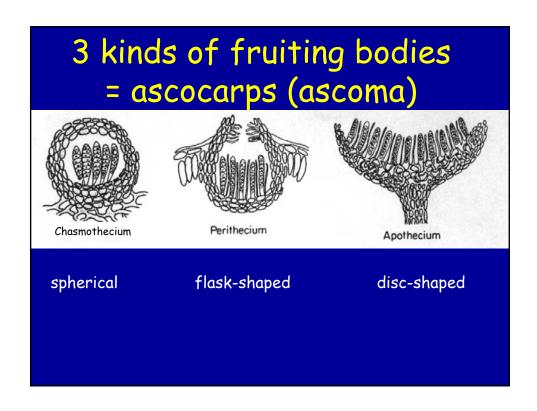


Released in the spring (or fall)

· Asci can be borne naked:



 Usually asci are contained in a fruiting body called an ascocarp or ascoma



## Diseases caused by Ascomycete pathogens where the ascospore plays a prominent role

- Powdery mildews
- Apple scab
- · Eastern filbert blight
- · White mold





