

*Ascomycota*

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Kingdom: Fungi

Phylum: Ascomycota

Sub-phylum: Taphrinomycotina

Sacharomycotina - (ex. Sacharomyces)

Pezizomycotina -

Class: 1) Sordariomycetes - Perithecia

*Neurospora*

*Claviceps*

*Xylaria*

*Hypoxyton*

2) Pezizomycetes - Apothecia

*Ascobolus*

*Morchella*

3) Dothidiomycetes - Pseudothecia, bitunicate asci  
(used to be Loculomycetes)

*Sporormiella*

4) Eurotiomycetes - Cleistothecia

*Eurotium/Aspergillus*

*Penicillium*

5) Leotiomycetes (powdery mildew) - Cleistothecia

*Microshpaera*

*Sphaerotheca*

*Erisyphae*

6) Lecanoromycetes (Lichens) - Apothecia

*Caloplaca*

*Lobaria*

*Letharia*

*Ramulina*

Teleomorph - sexual stage, has ascocarp

Anamorph - asexual stage, has conidia

Example

Anamorph: *Aspergillus*

Teliomorph: *Eurotium*

Things you should know:

-ascocarp diversity and which organisms have particular ascocarps

-conidiophore diversity "

-*Neurospora* life cycle - croziers

-bitunicate vs. unitunicate asci

-differences between classes

