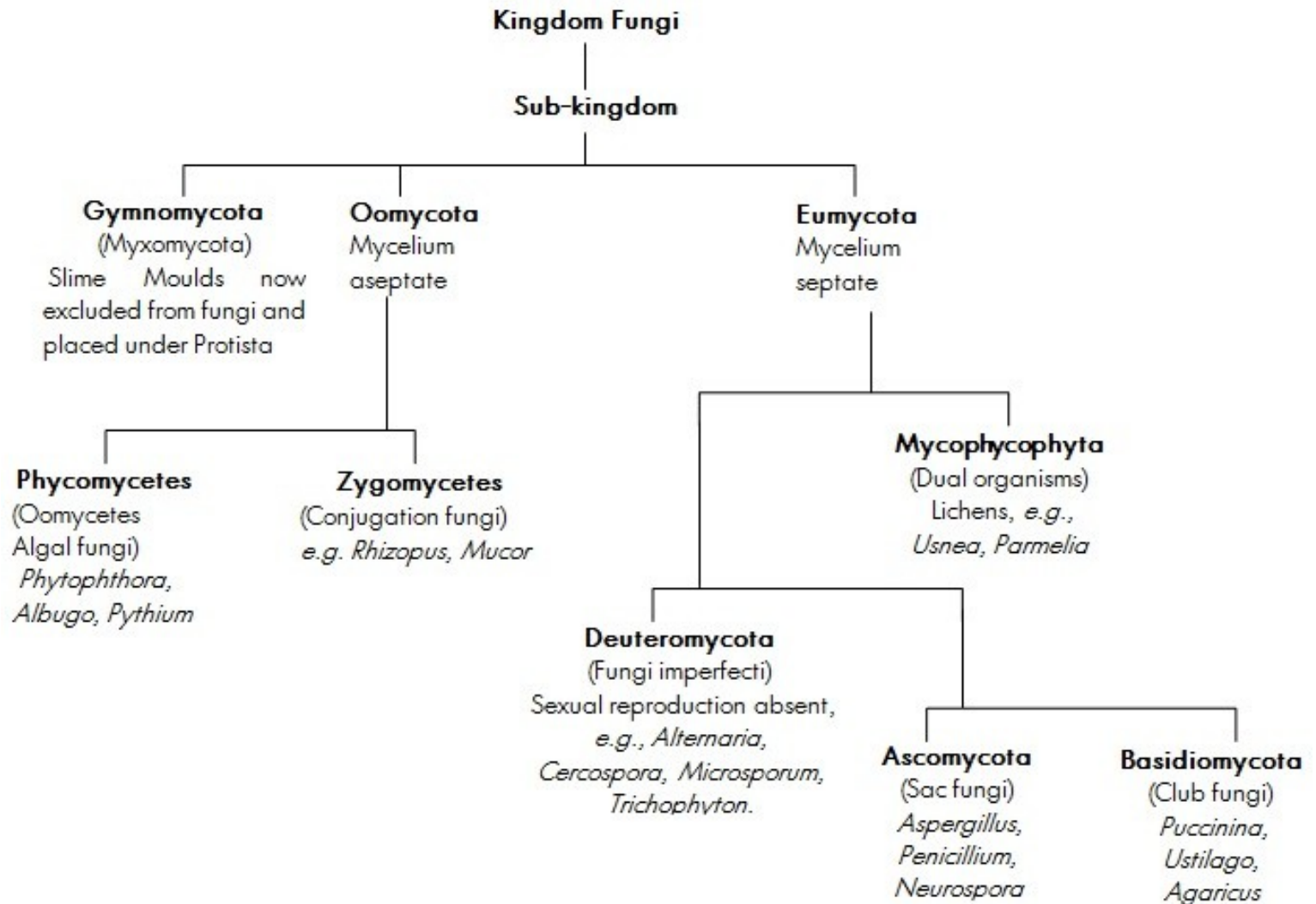


**CORSO DI BOTANICA SISTEMATICA**

# **LEZIONE 48**

**Zigomiceti - Basidiomiceti**





**Chytridiomycota**  
(*Allomyces*,  
water molds)



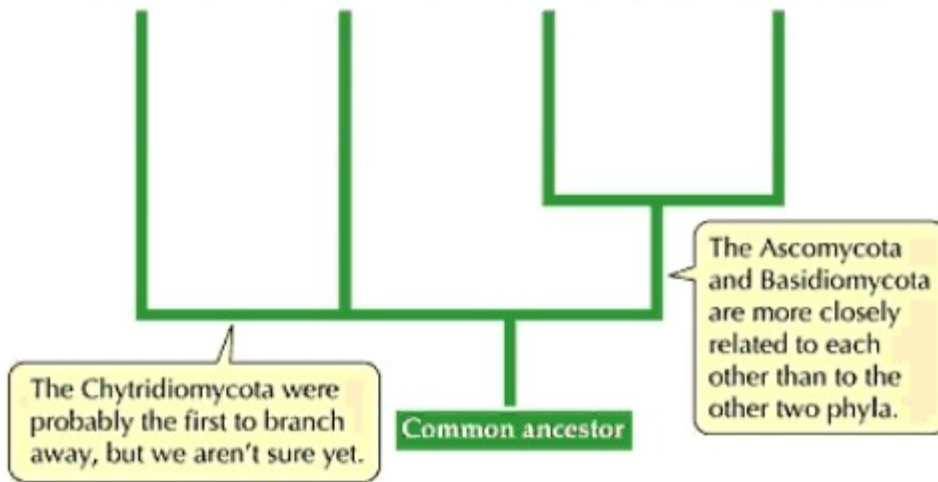
**Zygomycota**  
(*Rhizopus*, bread  
molds, *Mucor*)

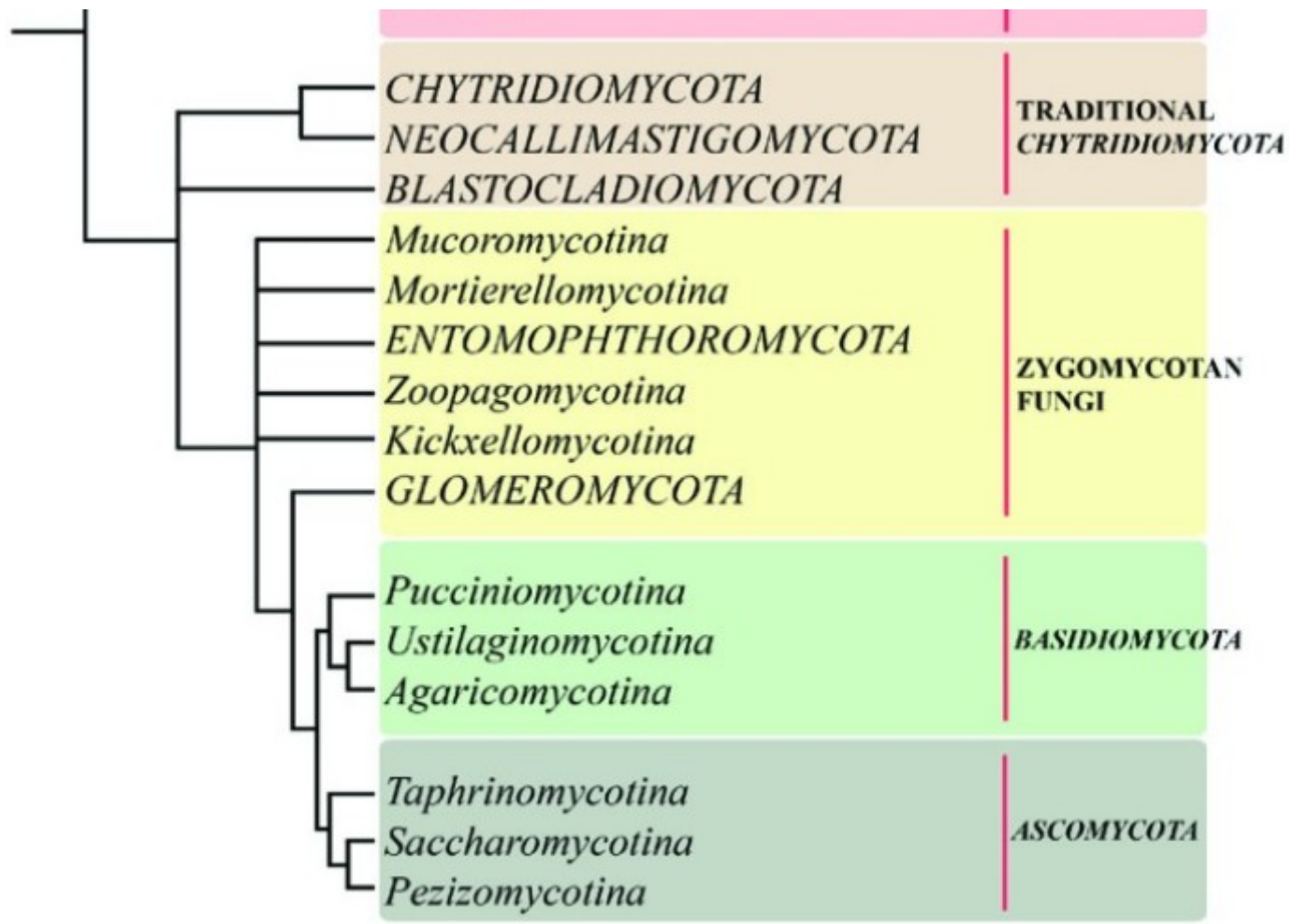


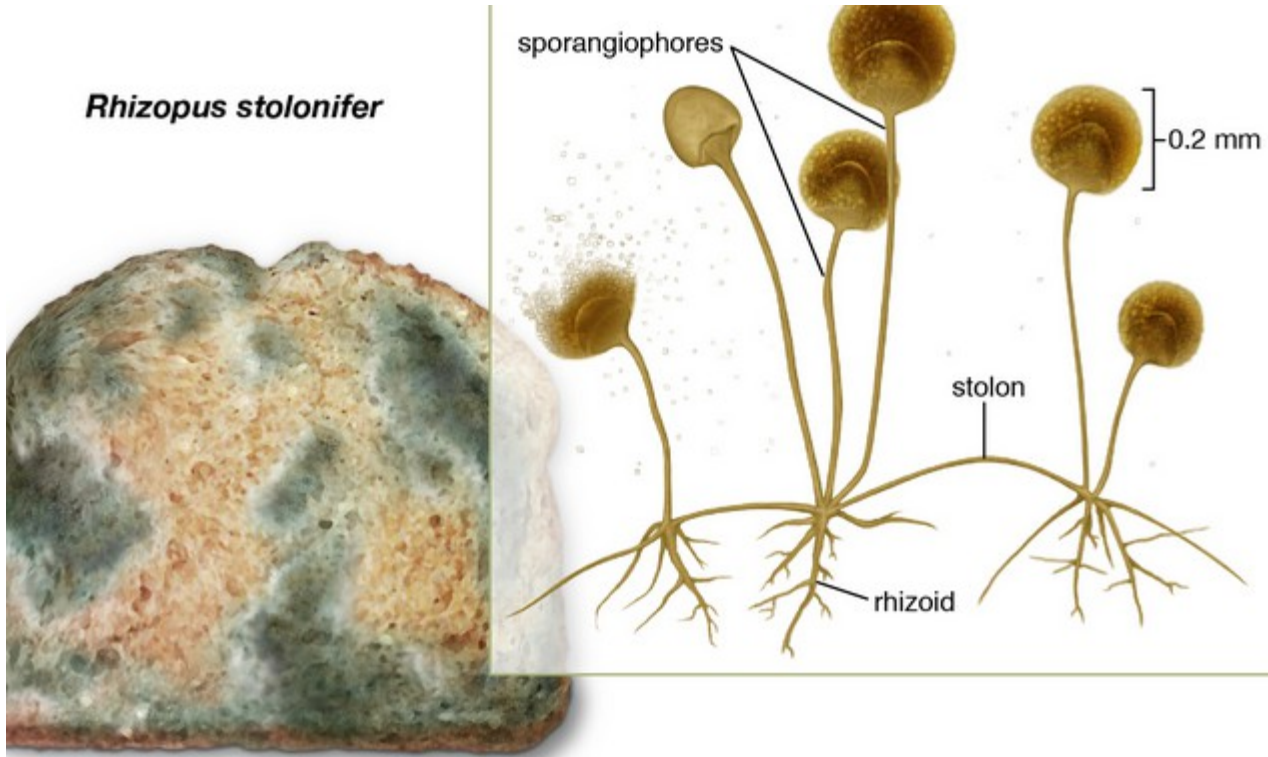
**Basidiomycota**  
(mushrooms,  
rusts, smuts)



**Ascomycota**  
(*Neurospora*,  
yeast, sac fungi)



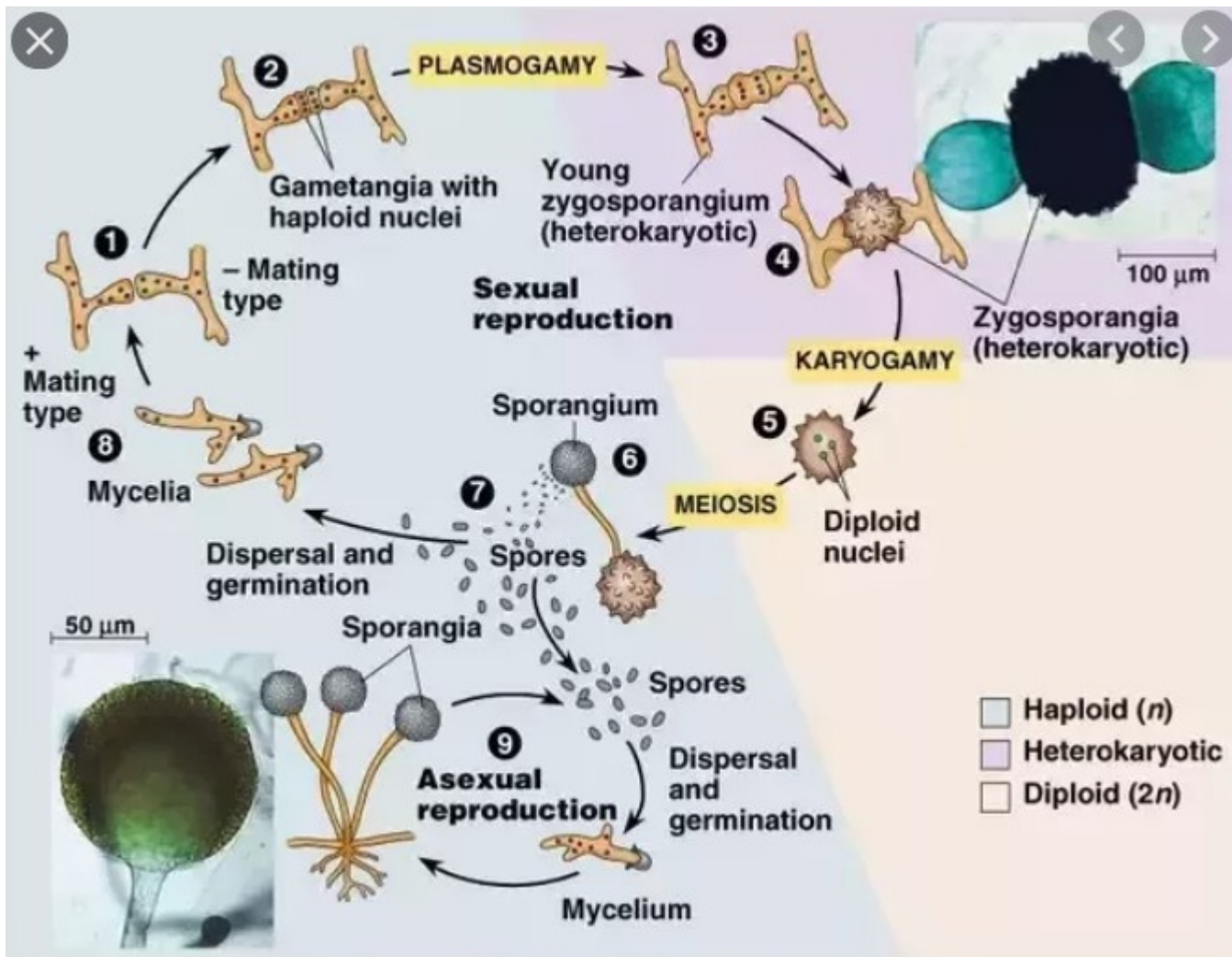




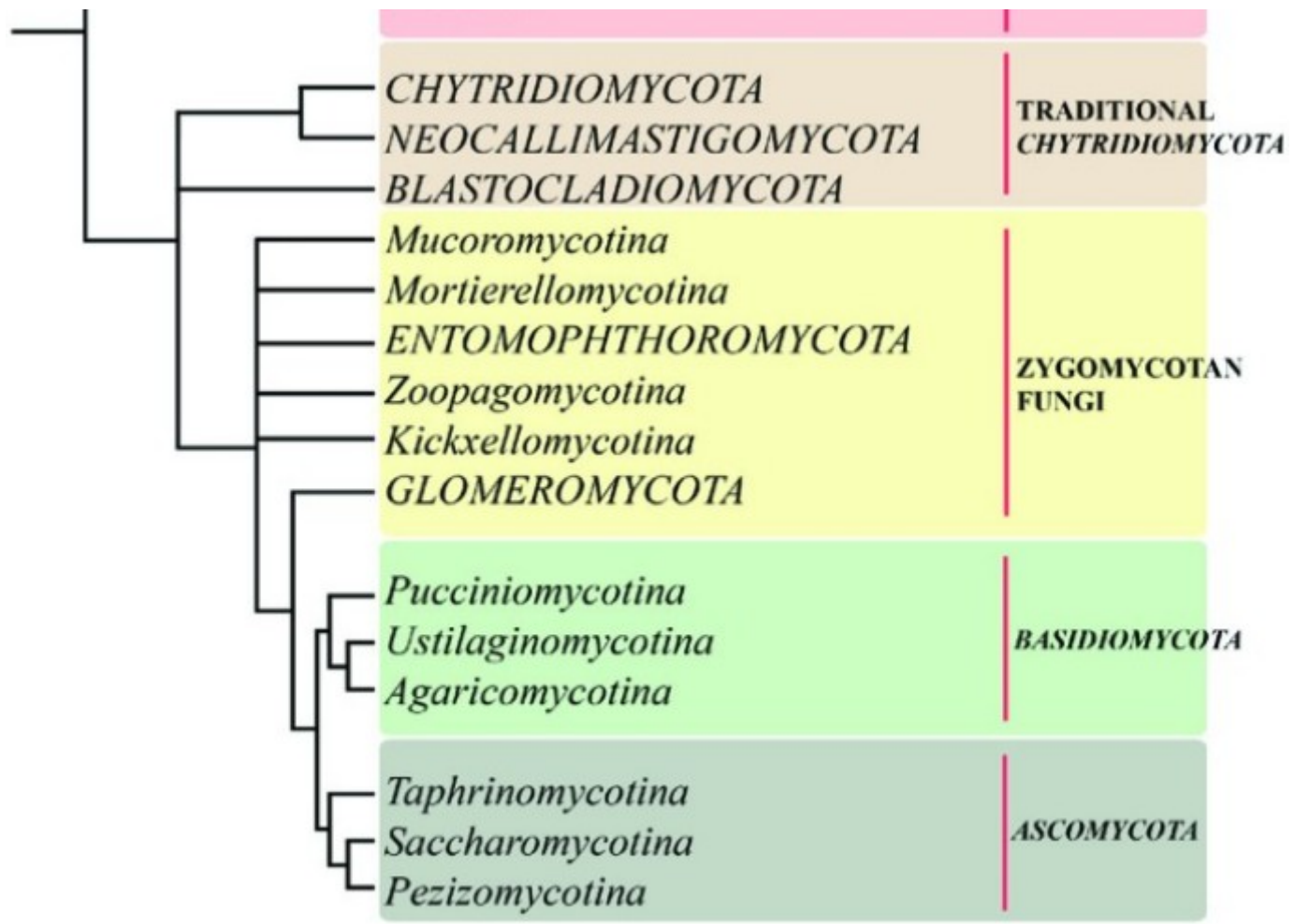
Zygomycota (gruppo parafiletico!)



*Rhizopus*

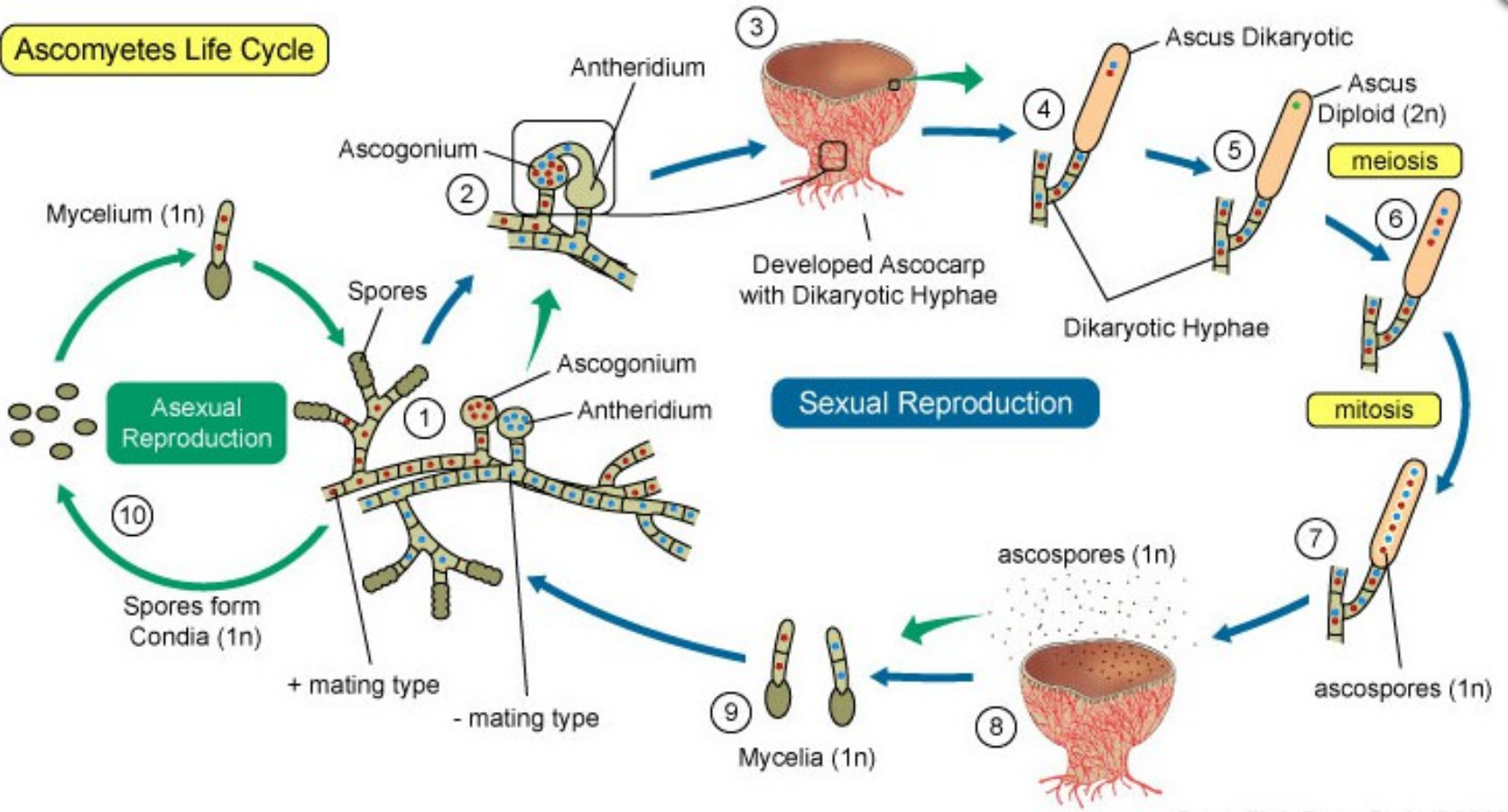


Ciclo di vita di un Zygomicete (Rhizopus)



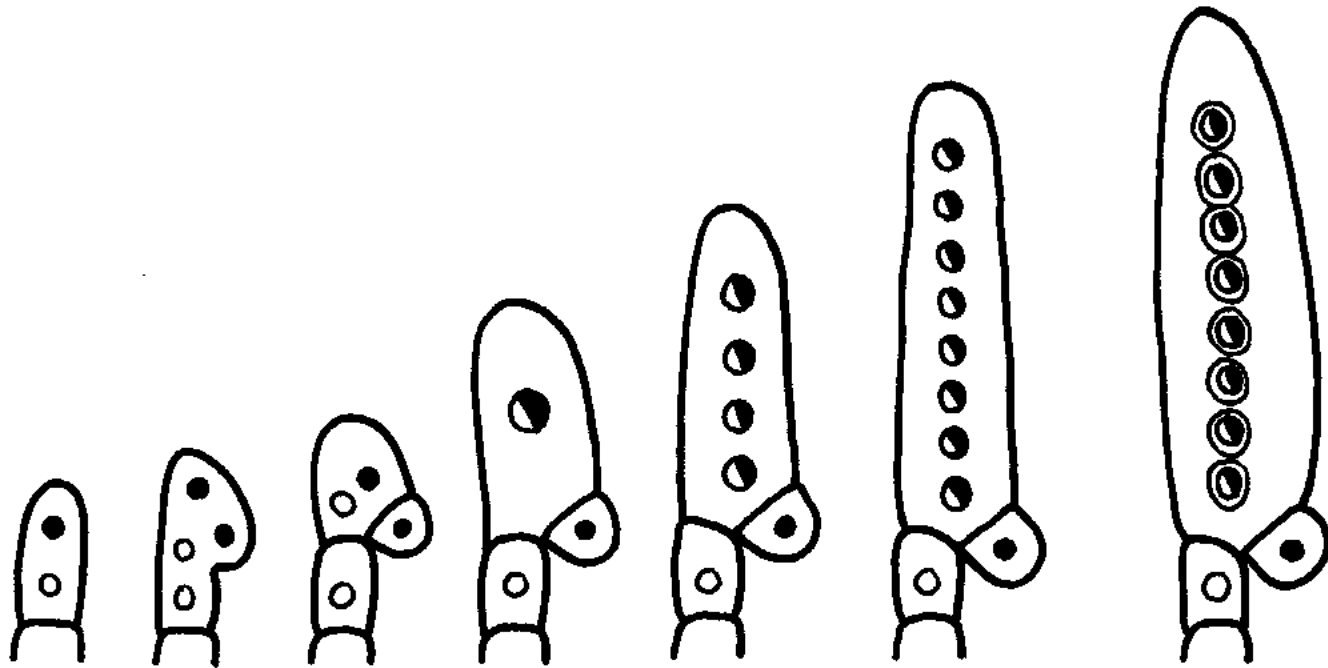


**Ascomycetes Life Cycle**



Dept. Biol. Penn State ©2002

Ascomycota: Ciclo di vita di un Ascomicete



Ivy Livingstone ©BIODIDAC

Suy/97

Formazione di un asco

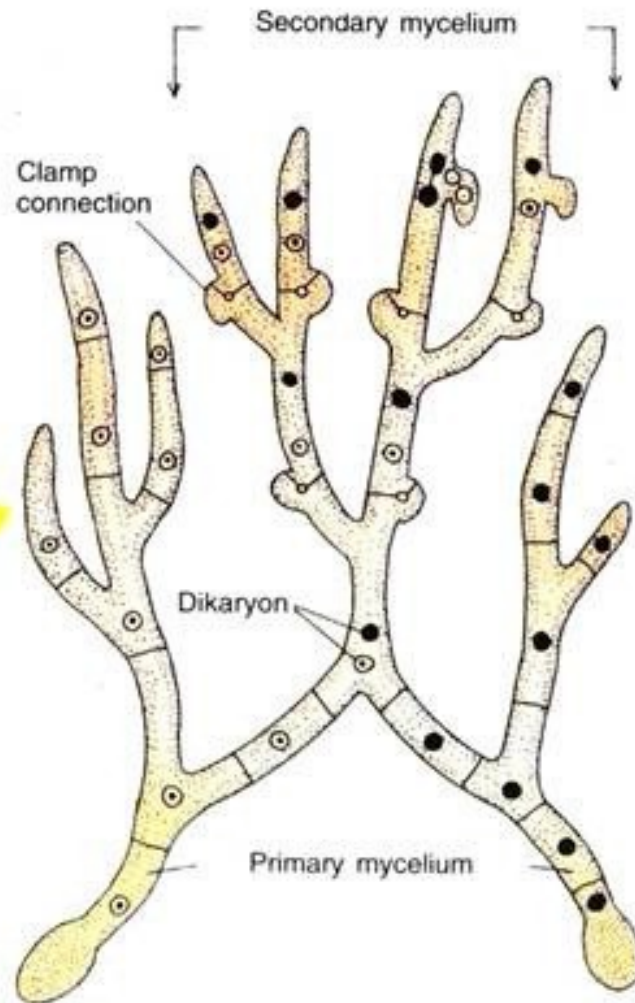
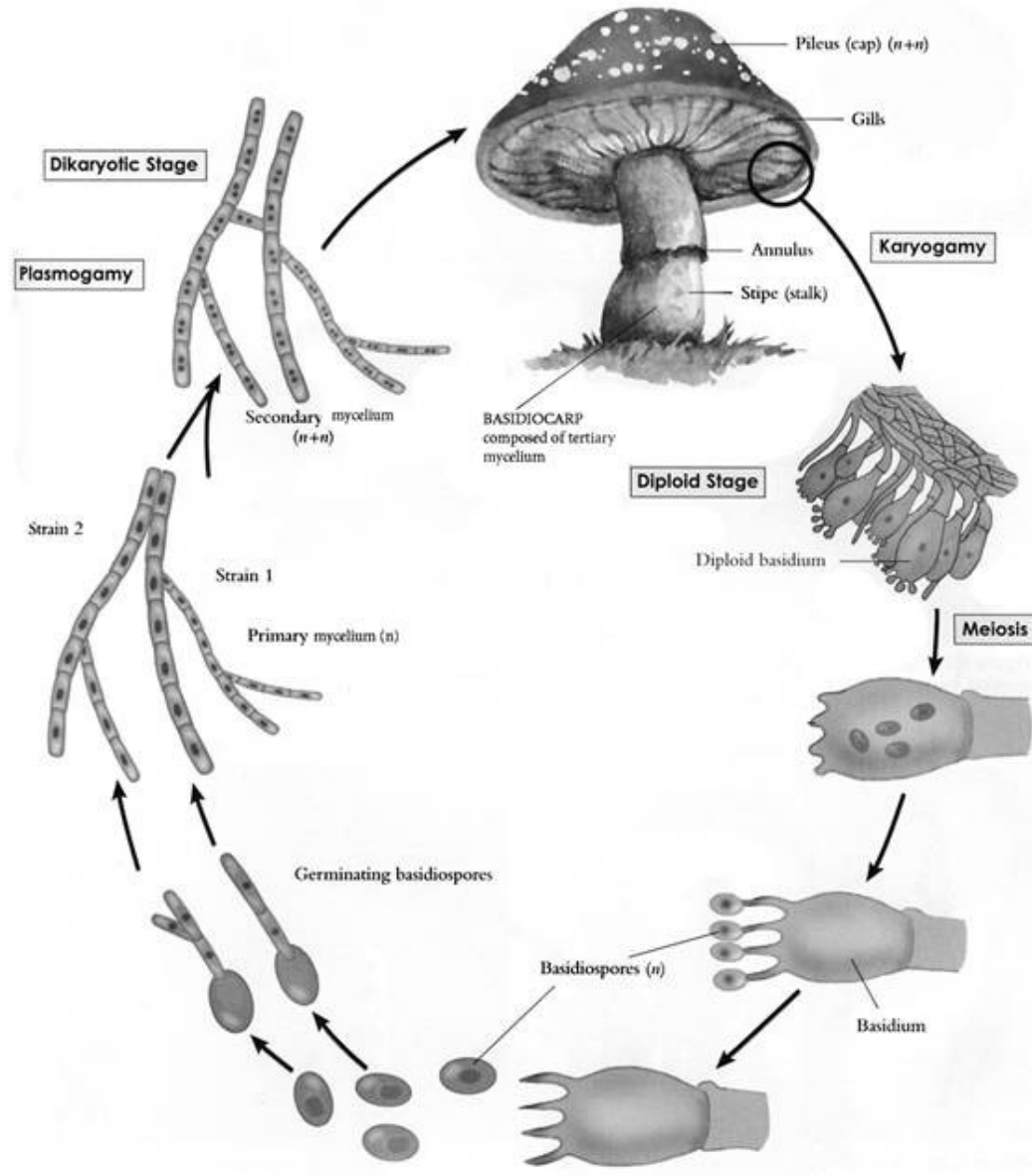
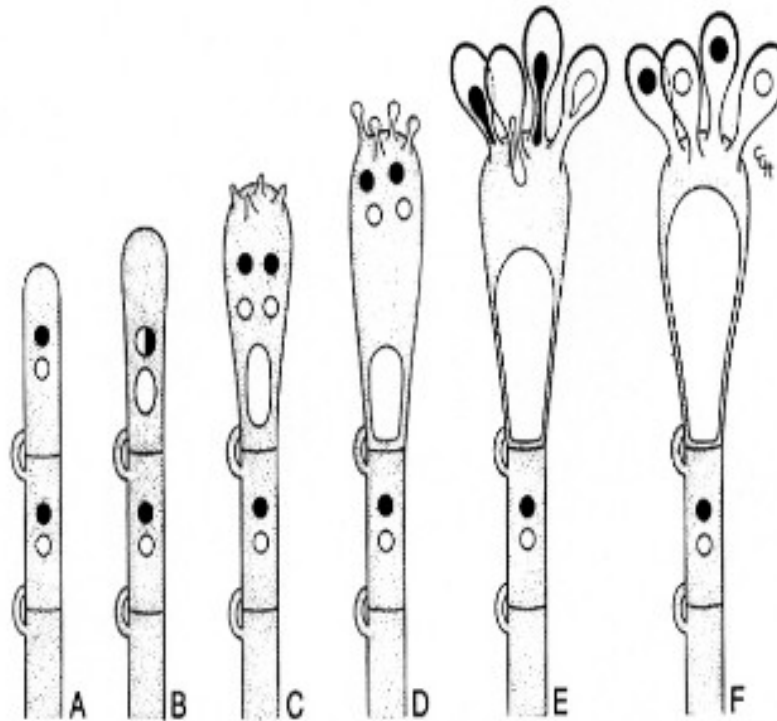


Fig. 13.2. *Basidiomycetes*. Sketch showing the formation of a secondary mycelium from a dikaryotised cell produced by somatogamous copulation between two uninucleate cells of primary mycelia of opposite strains.

Basidiomycota; ciclo di vita di un Basidiomicete

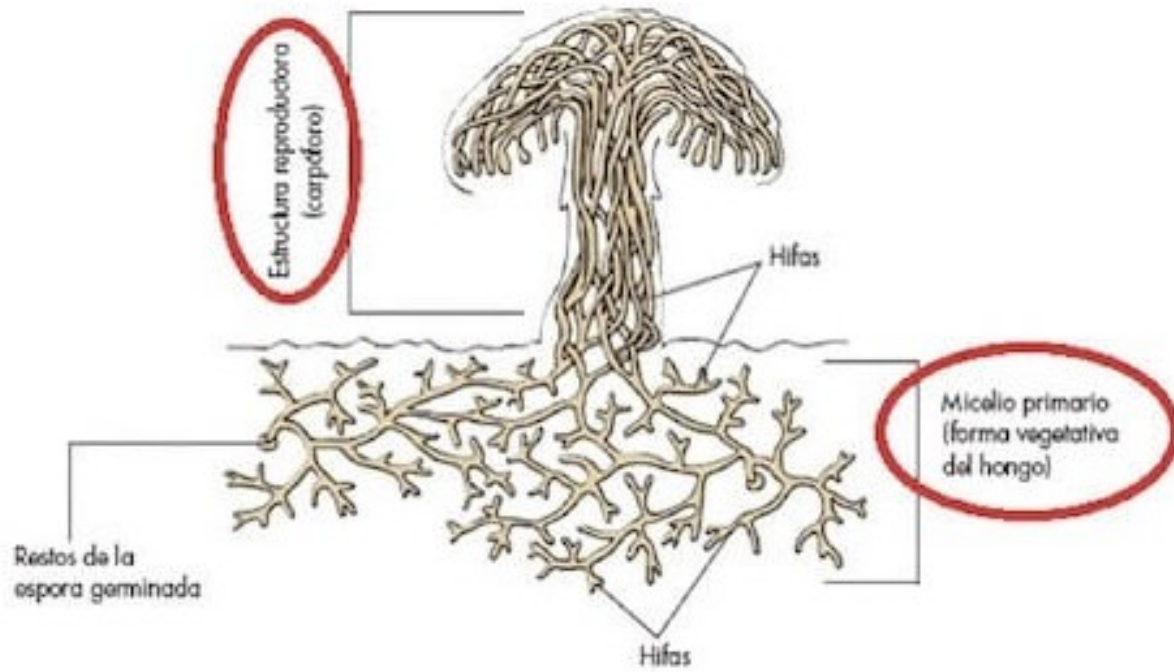




**Figure 16-6** Successive stages in development of a basidium and basidiospores. (A) Binucleate hyphal tip. (B) Uninucleate, diploid basidium following karyogamy. (C) Postmeiotic basidium with four haploid nuclei. Sterigmata have begun to develop. (D) Basidiospore initials on sterigmata and nuclei preparing to migrate into the spore initials. (E) Migration of nuclei into basidiospore initials. (F) Highly vacuolate, maturing basidium bearing four young uninucleate basidiospores. (Drawing by Carol Gubbins Hahn.)

Formazione di un basidio





*Cappello*

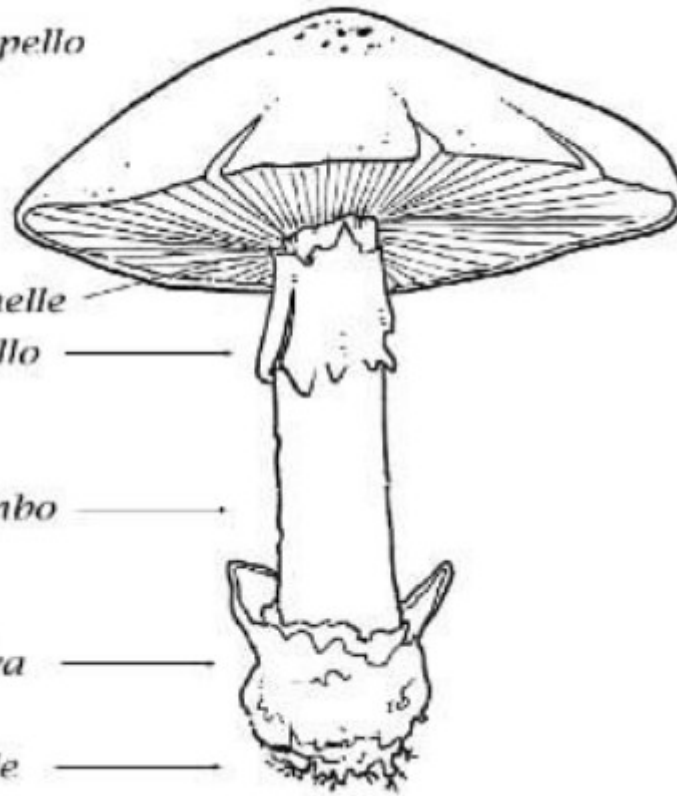
*Lamelle*

*Anello*

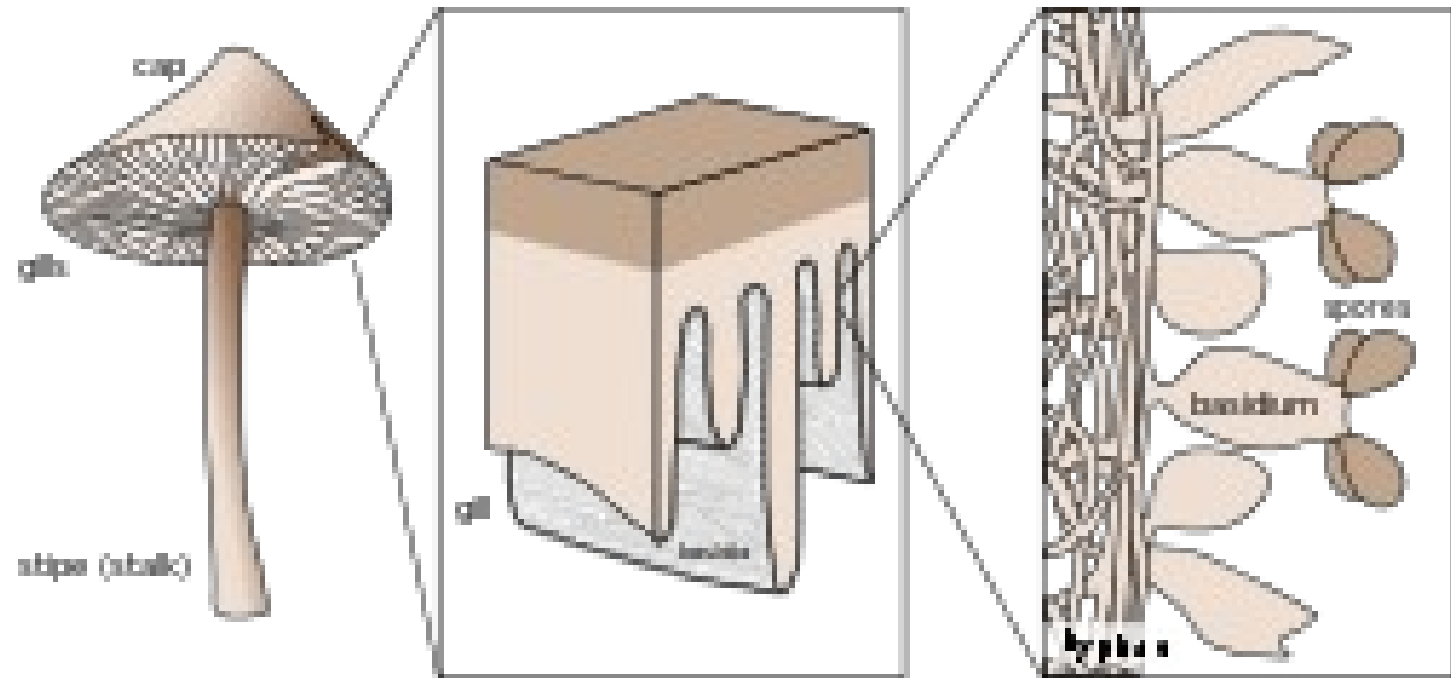
*Gambo*

*Volva*

*Piede*









Cortina



Lamelle



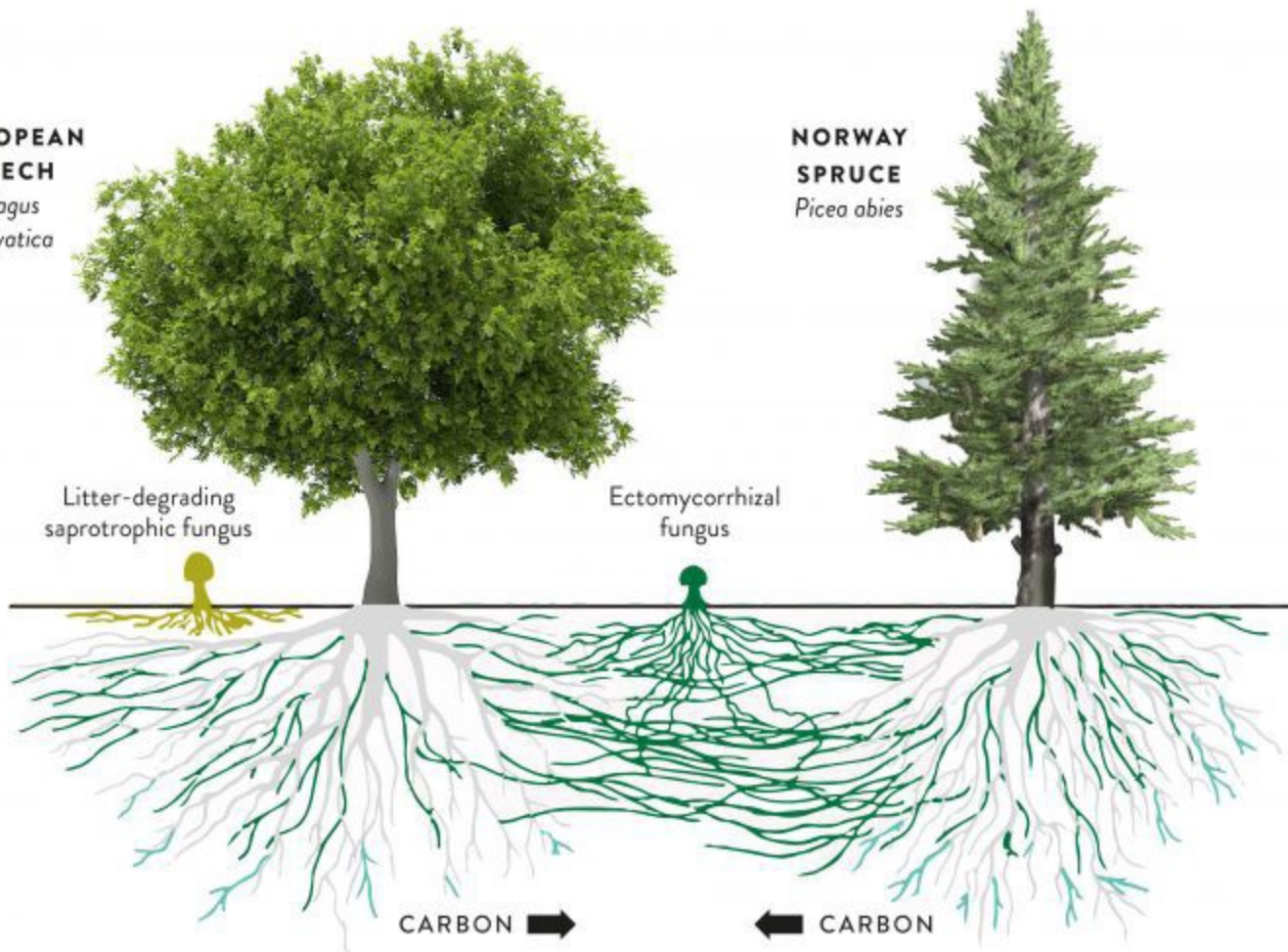
Pori



Aghi

**EUROPEAN  
BEECH**  
*Fagus  
sylvatica*

**NORWAY  
SPRUCE**  
*Picea abies*



Litter-degrading  
saprotrophic fungus

Ectomycorrhizal  
fungus

CARBON →

← CARBON



**Robigalia**



**Rogatorie**





La ruggine del grano  
Baidiomiceti: *Puccinia graminis*

La ruggine del grano: *Puccinia graminis*

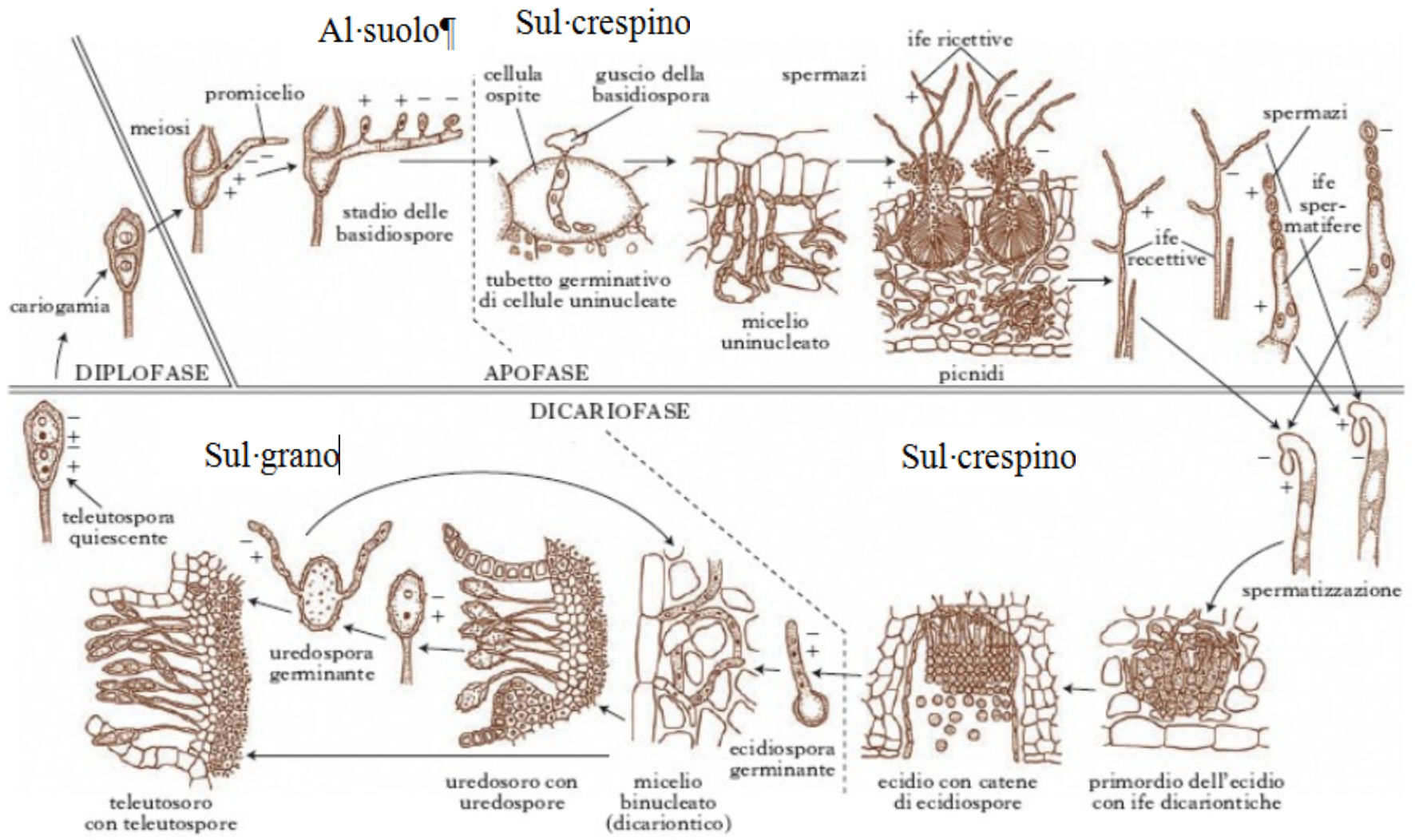








vulgaris



Al suolo

Sul-crespino

DIPLOFASE

APOFASE

DICARIOFASE

Sul-grano

Sul-crespino

teleutosoro con teleutospore

uredosoro con uredospore

micelio binucleato (dicariontico)

ecidio con catene di ecidiospore

primordio dell'ecidio con ife dicariontiche









