

BASIDIOMYCOTA

cerca de 30000 espécies

grupo contém também

leveduras

espécies assexuadas

a maioria terrestre

alguns de água salgada ou doce

saprófitos (boa parte da biomass de solos)

necrófitos

simbióticos (ectomicorrizas)

associação com insetos (formigas cortadeiras)

vida longa (1500 anos)

micélio extenso: estima-se que um exemplar de *Armillaria*, da floresta do Canadá, se estenda por 15 hectares e tenha uma biomassa de 10 toneladas, sendo considerado o maior ser vivo no planeta

muitos digerem celulose e lignina matéria orgânica geralmente pouco acessível

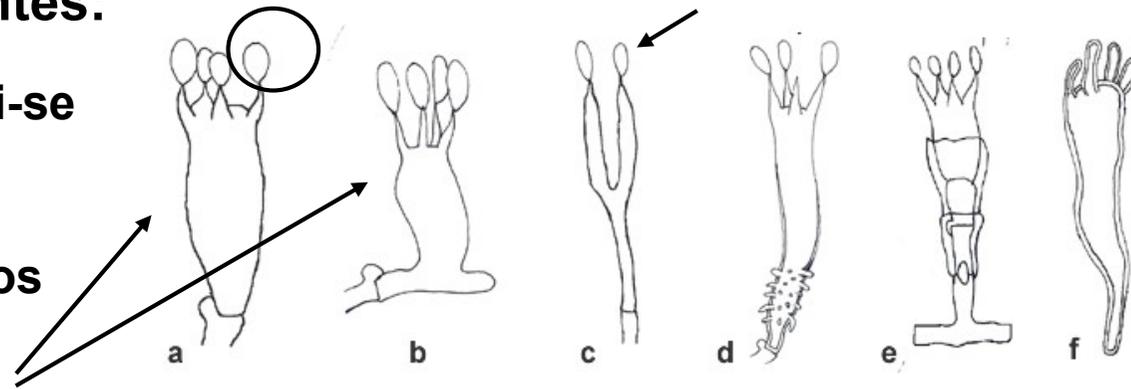


comestíveis,
venenosos, halucinógenos

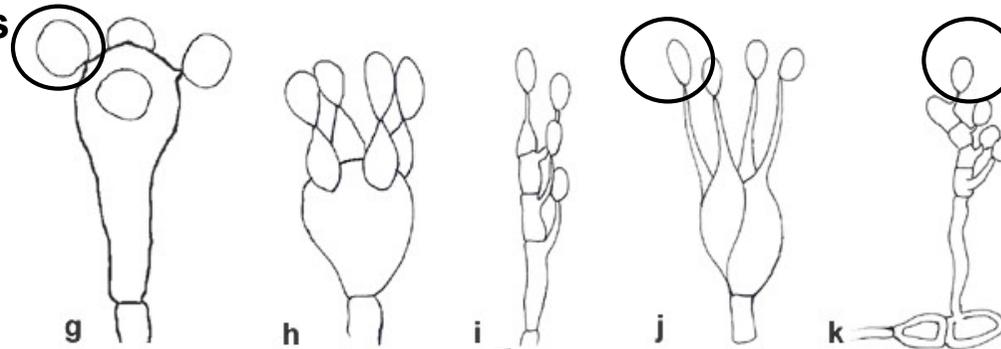
Caraterísticas marcantes:

Basidiomycota distingui-se dos demais fungos pela formação de basídios, estruturas que formam os basidiósporos

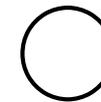
Phragmobasidiomycetes



Holobasidiomycetes



Teliomycetes



basidiósporos



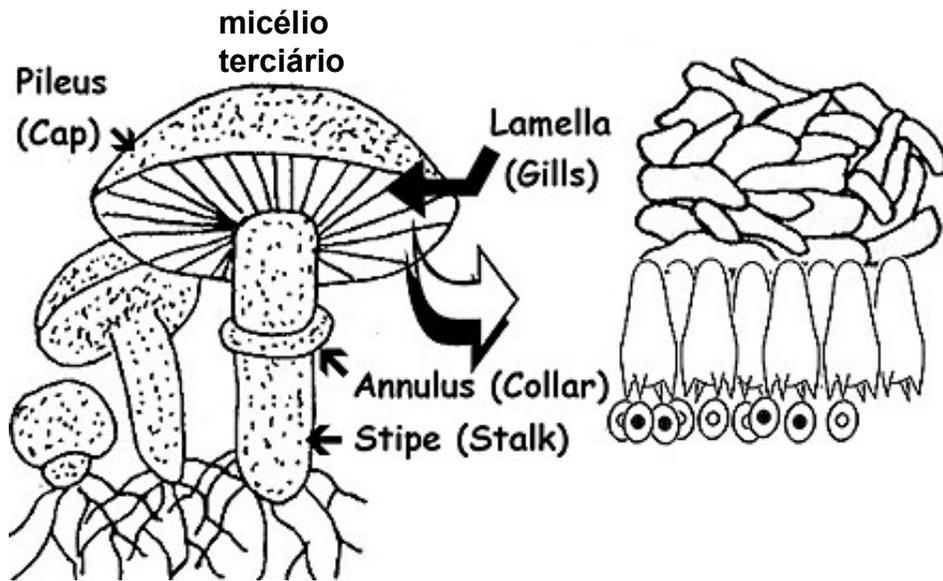
Fungos gelatinosos contém basídios septados

Tipos de Basídios

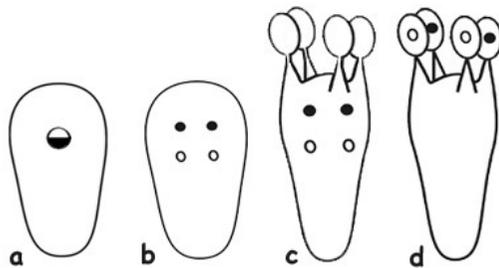
os basidiósporos são formados após a meiose que segue a cariogamia

basídios clavados (amaioria) e septados

Basídio

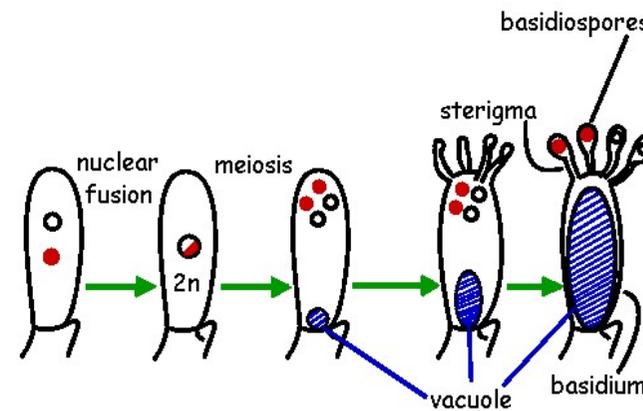


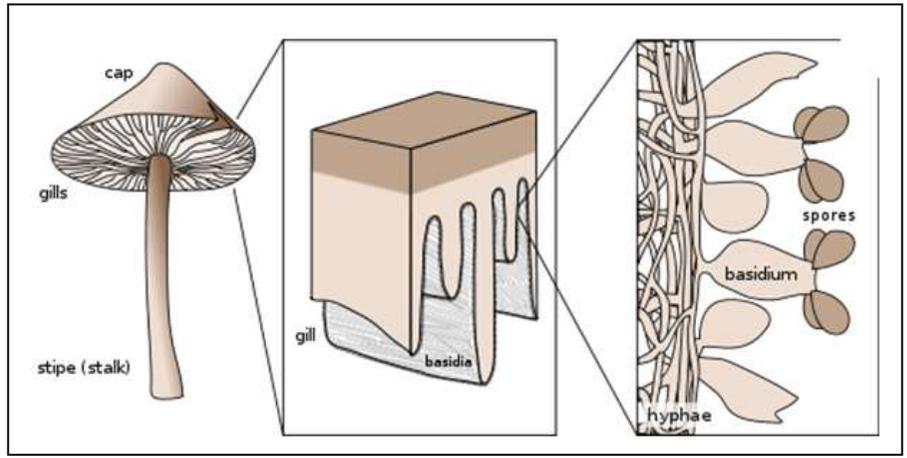
Various stage of mushroom development (right) and mature, haploid basidiospores on basidia on the surface of the lamella.



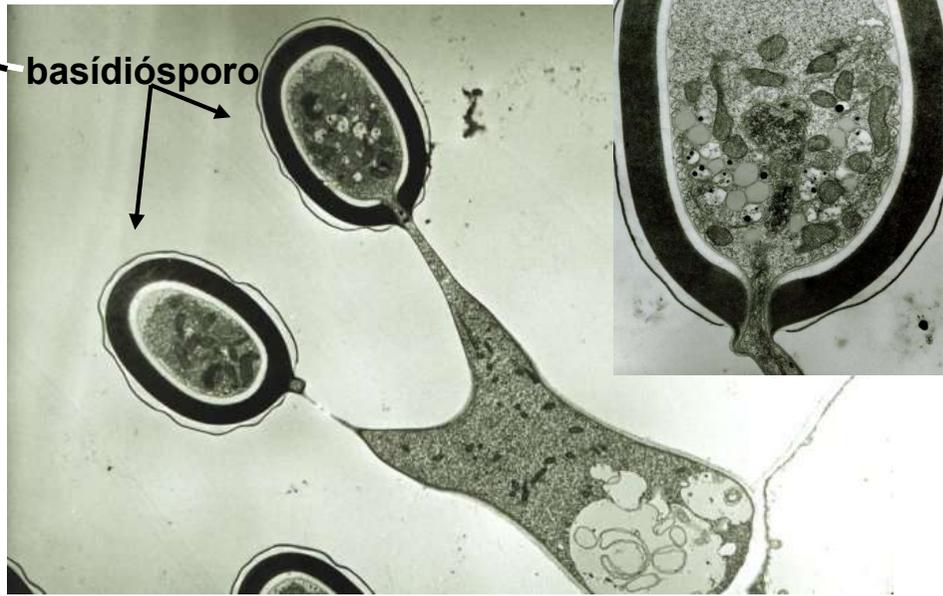
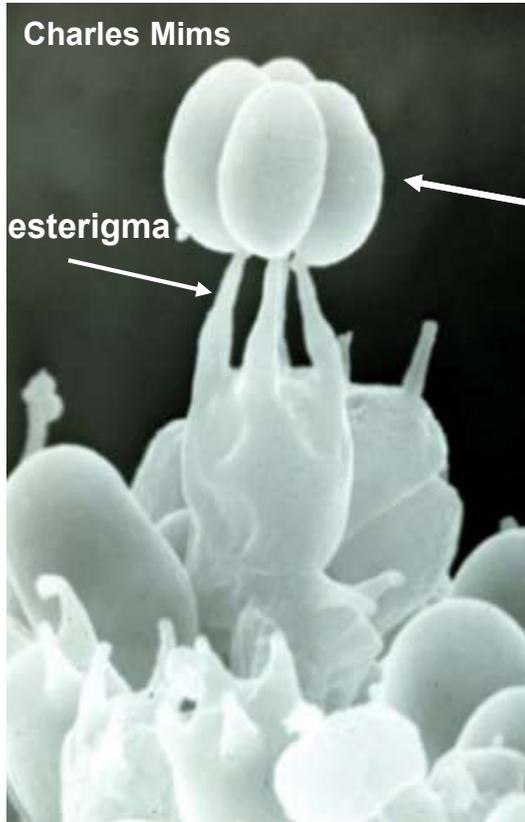
célula onde são formados os esporos

The zygote 5a is the only diploid stage. Four nucleate stage after meiosis 5b. Formation of basidiospores, but nuclei have not migrated into spores 5c. Nuclear migration into basidiospores 5d.





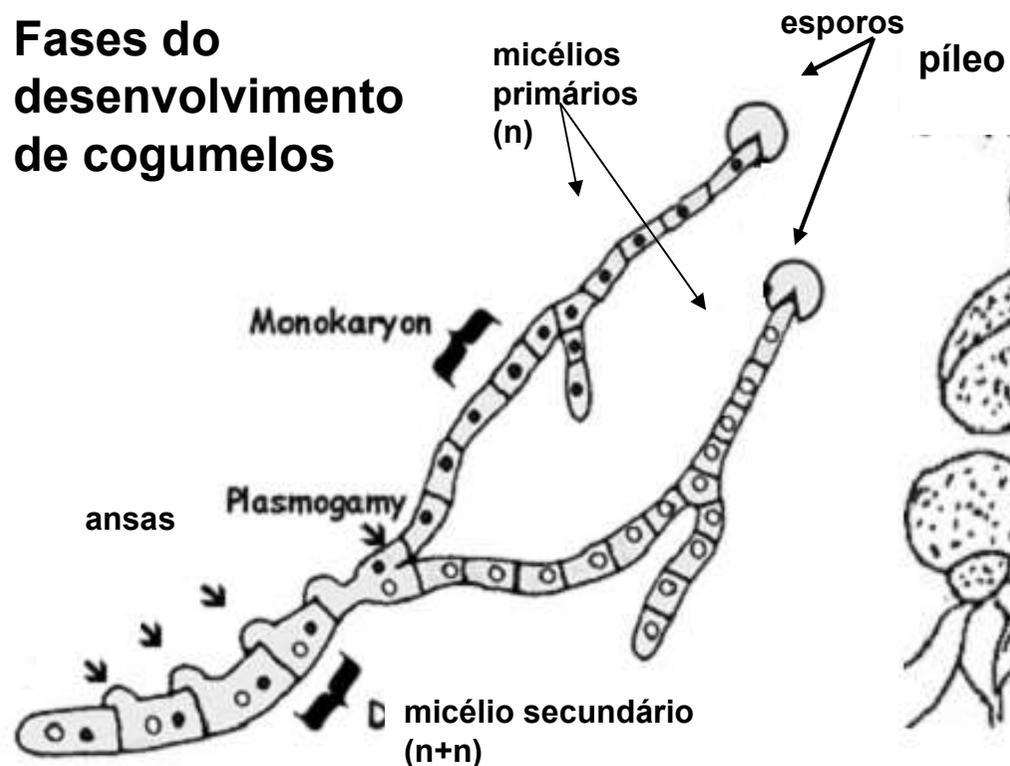
Charles Mims



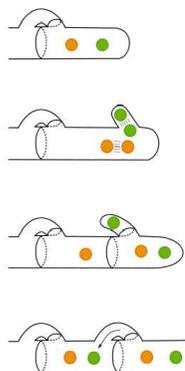
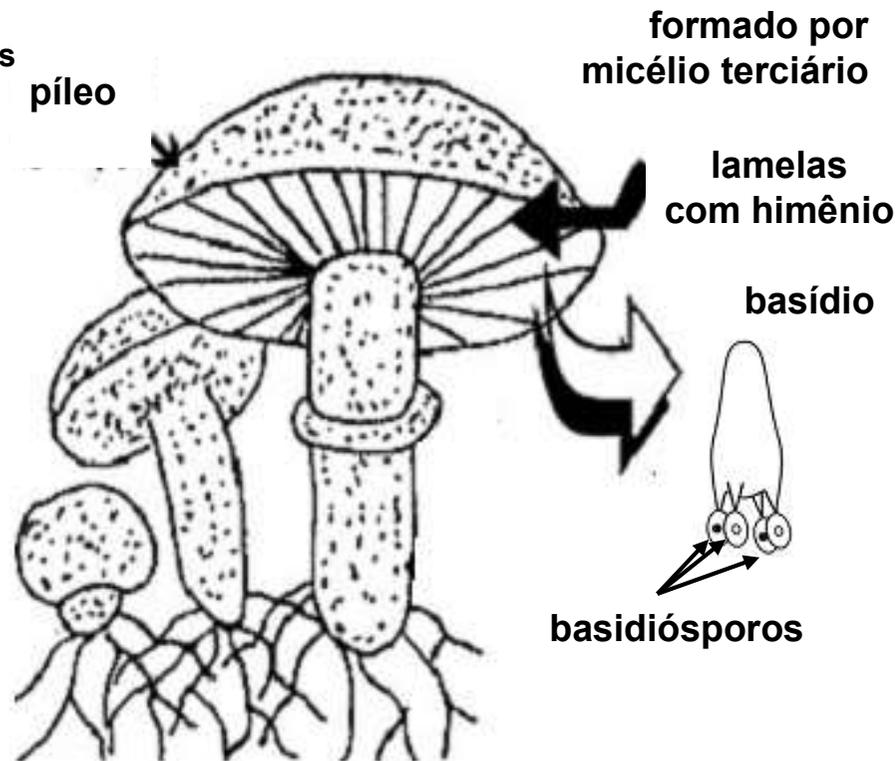
<http://www.bsu.edu/classes/ruch/msa/mims.html>

Caraterísticas marcantes: formação de ansas

Fases do desenvolvimento de cogumelos

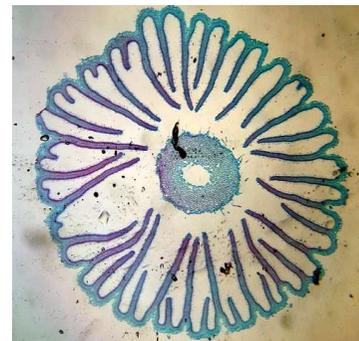


desenvolvimento do basidioma (basidiocarpo)



as ansas asseguram que cada um dos núcleos chegue às novas células (formadas em cerca de 50% das espécies)

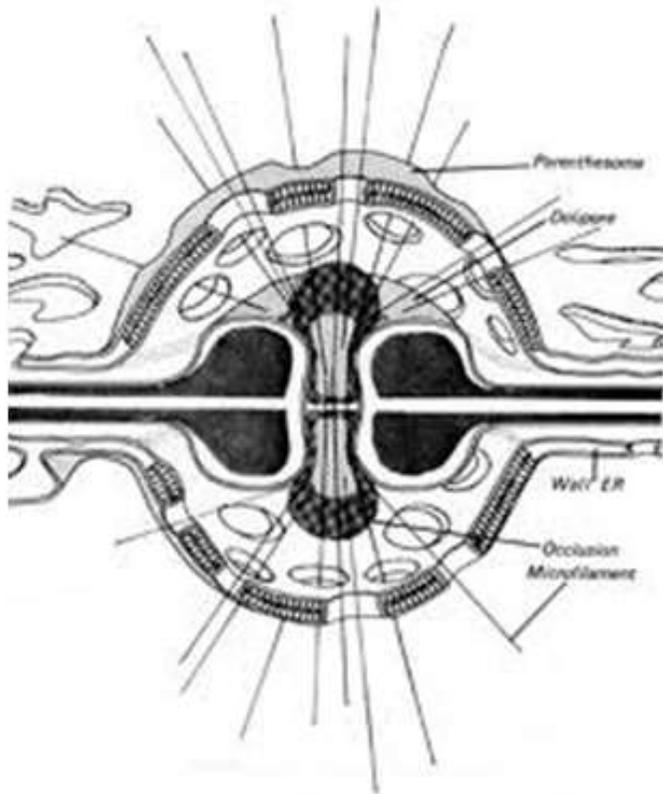
corte transversal de um basidiocarpo



Caraterísticas marcantes: Hifas septadas com poros

Septos:

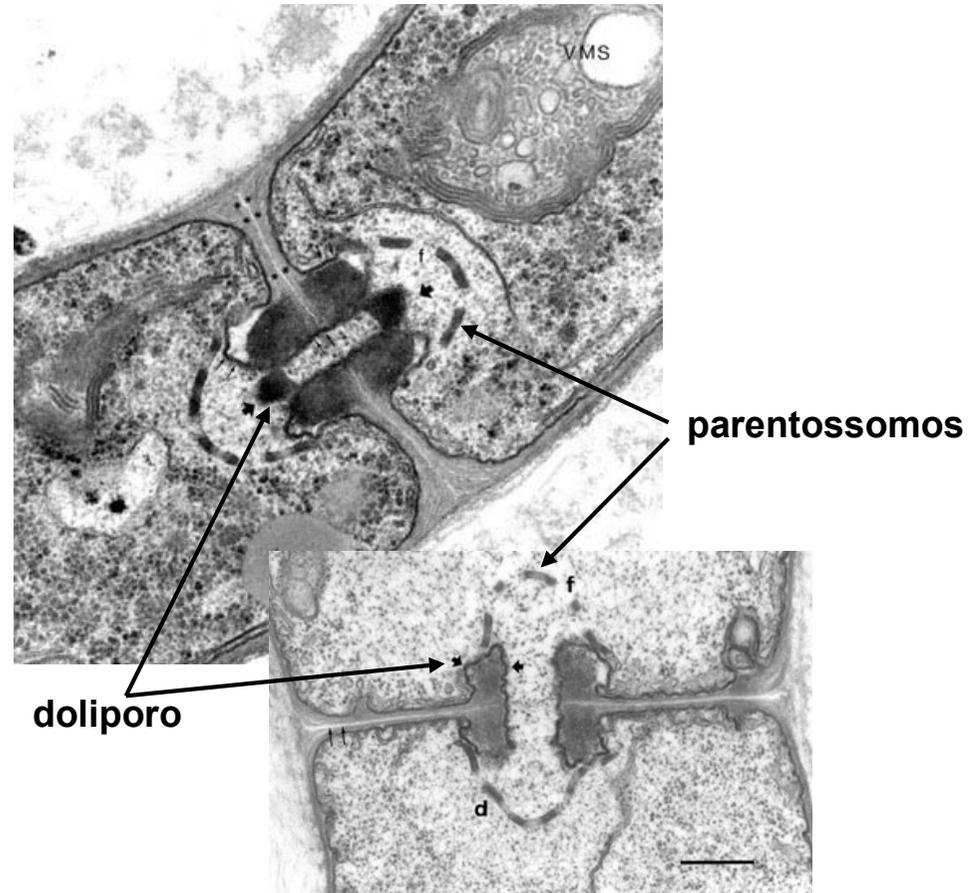
- com poro “simples”
- com doliporo



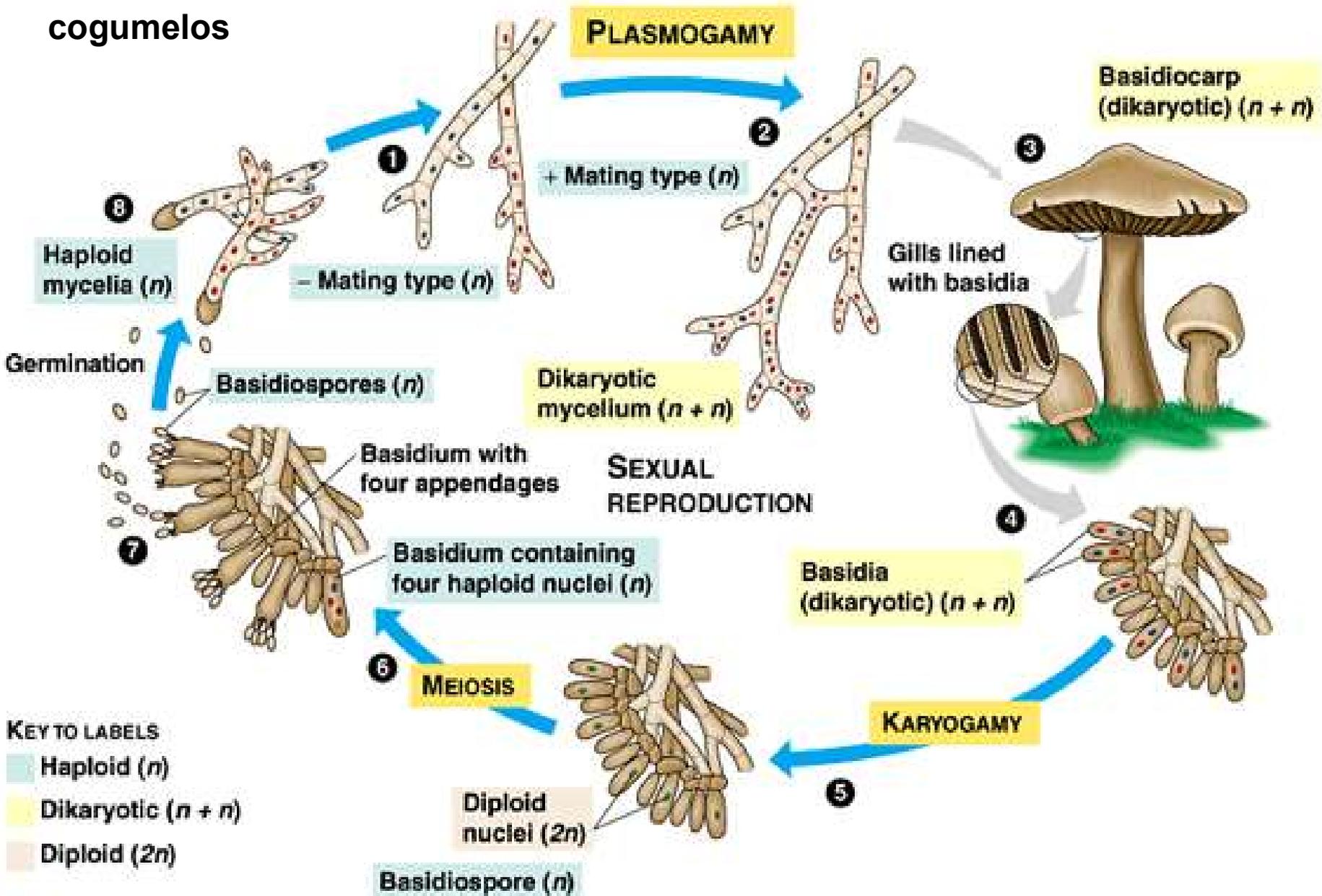
Dois tipos de hifas:

- mononucleadas
- dinucleadas

todo fungo com doliporos é um basidiomiceto



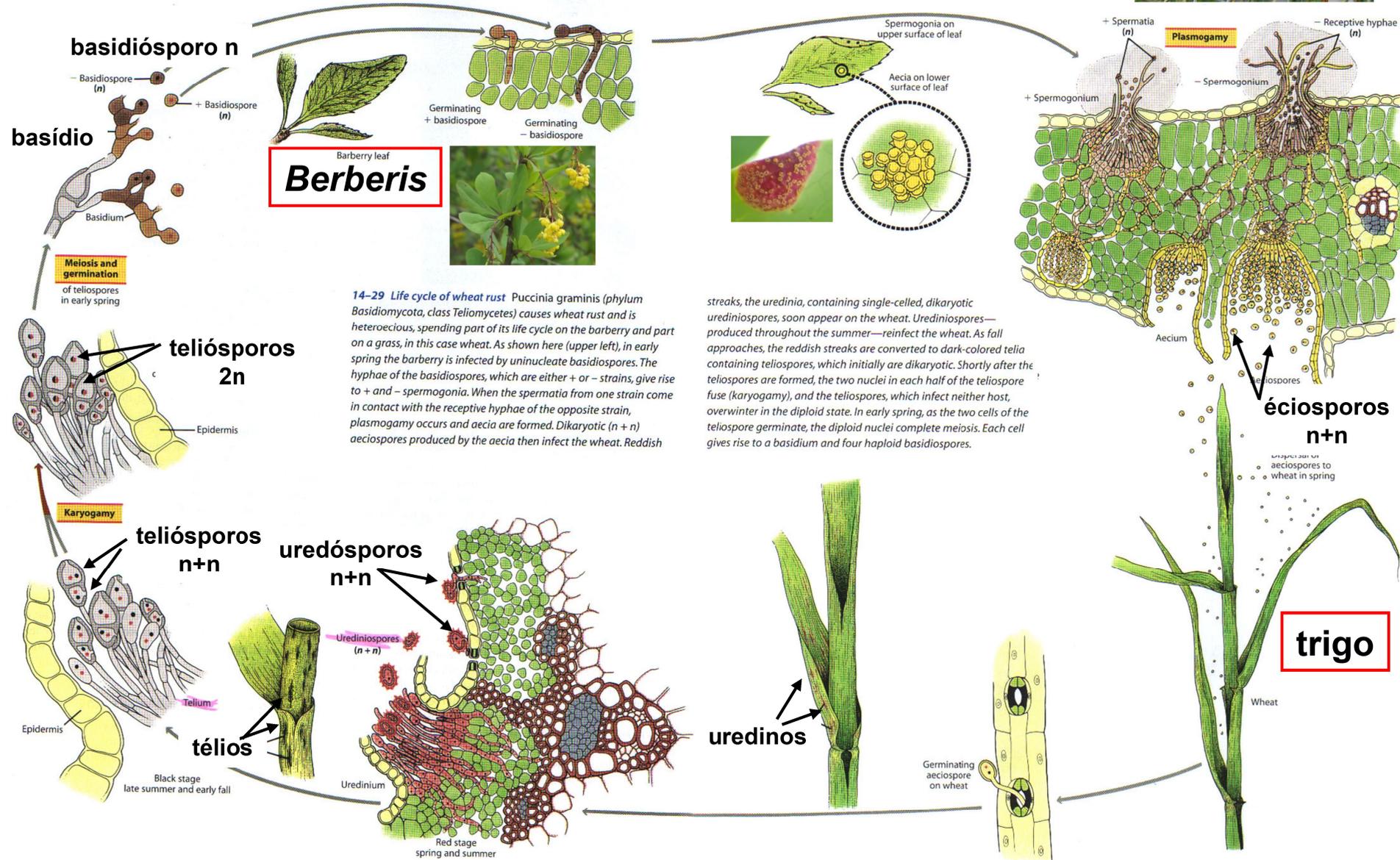
BASIDIOMYCOTA cogumelos



Ciclo de vida da ferrugem do trigo (*Puccinia graminis*)

<https://www.youtube.com/watch?v=AeuP5IYP5HA>

https://www.youtube.com/watch?v=AKY_peIBZek



Exemplos familiares:

champignon



Carvão do milho
Ustilago maydis



UFSC – Centro de ciências Agrárias

círculo das fadas



champignon

champignon



Hericium coralloides



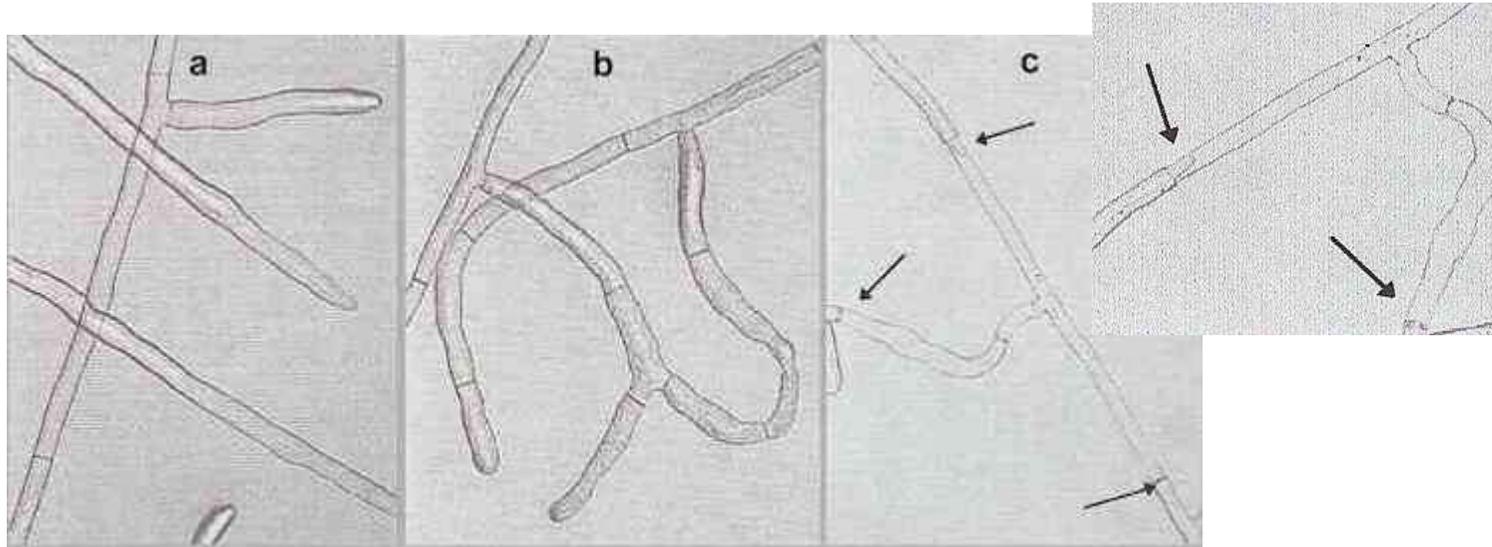
K54-211369 [RM] © www.visualphotos.com



Gasteromycete

Dictyophora

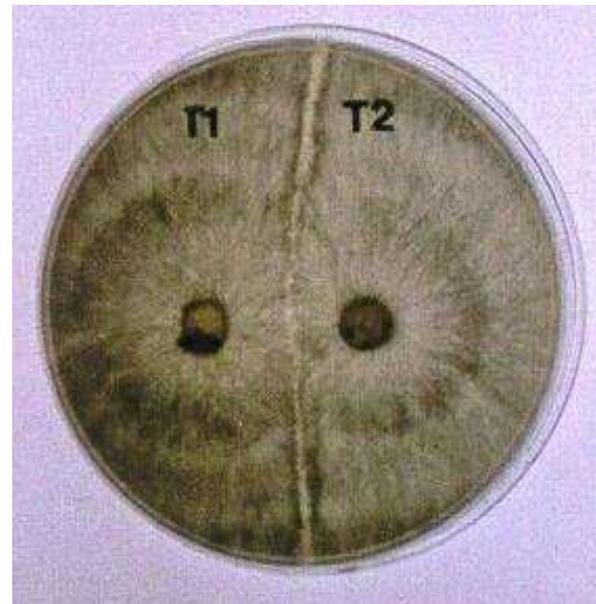
BASIDIOMYCOTA



Rhizoctonia solani

Jim Deacon, The University of Edinburgh

patógeno de plantas
cosmopolita
grande número de “hospedeiros”





spermogonium 10x



spermogonium 40x



upper surface

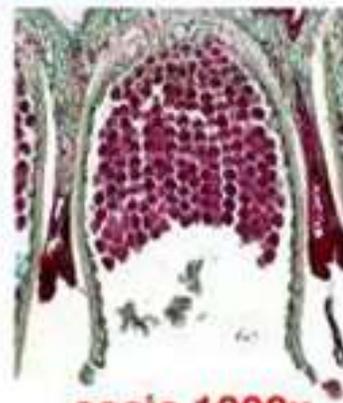
lower surface



Puccinia graminis
on Barberry



aecia 40x



aecia 1000x