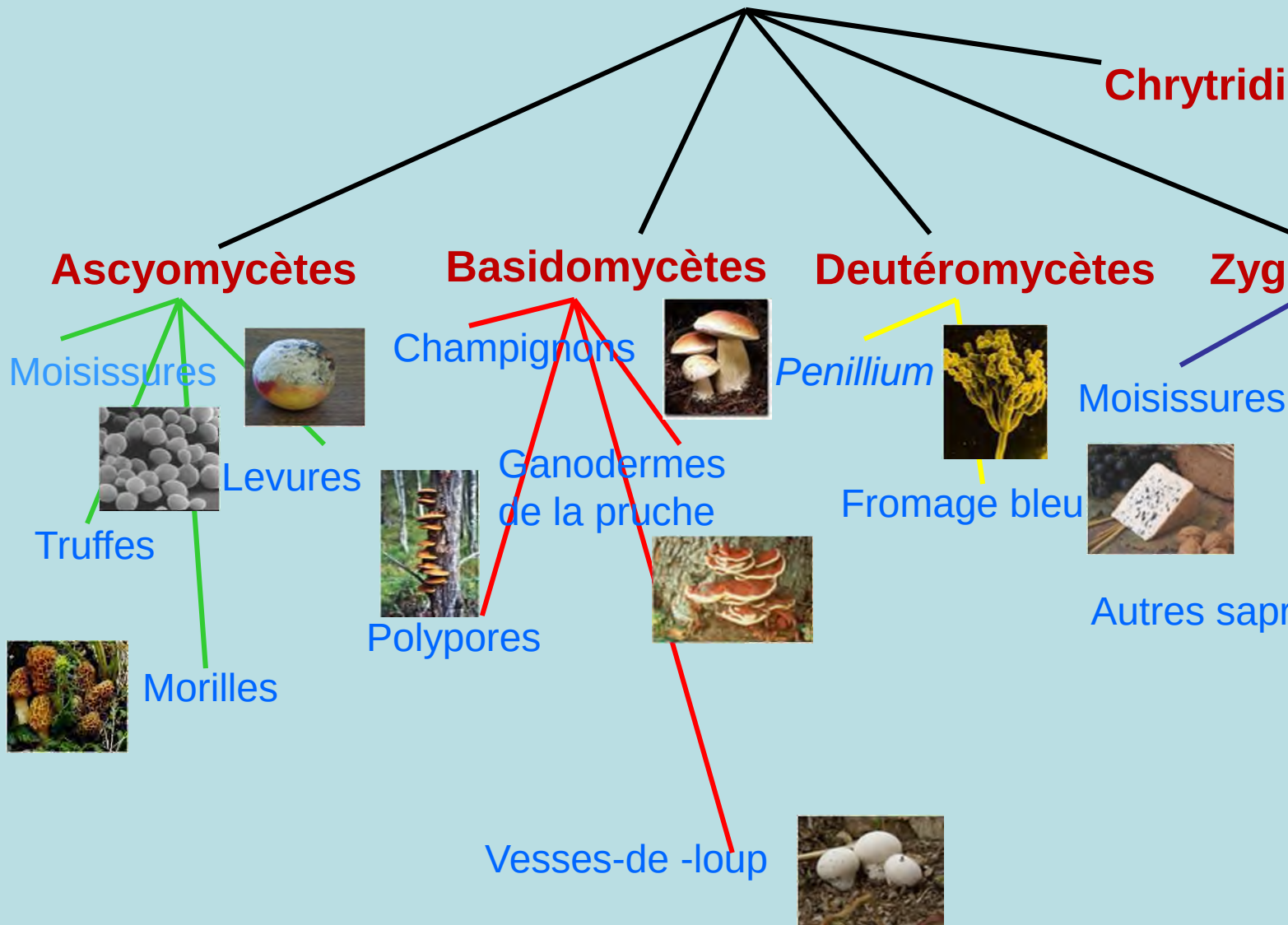
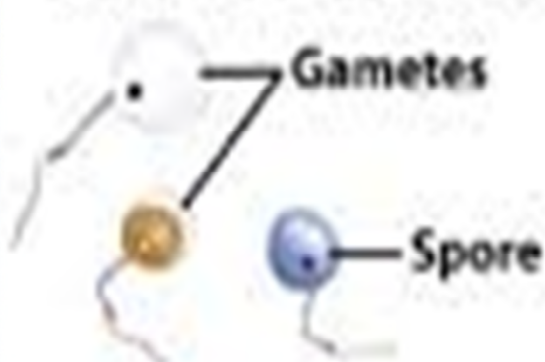


Mycètes



(a) Chytridiomycota
make swimming
gametes and spores.



(b) Zygomycota
hyphae yoke together
and form zygotes.



(c) Basidiomycota
form spores on
(little pedestals)



(d) Ascomycota
form spores in asci
(sacs).



Chytridiomycètes

Champignons dits :

- ❖ Inférieurs
- ❖ Archaïques
- ❖ Microscopiques
- ❖ Essentiellement aquatiques
- ❖ A reproduction normale
- ❖ A cellules flagellées : **zoïdes**

Reproduction

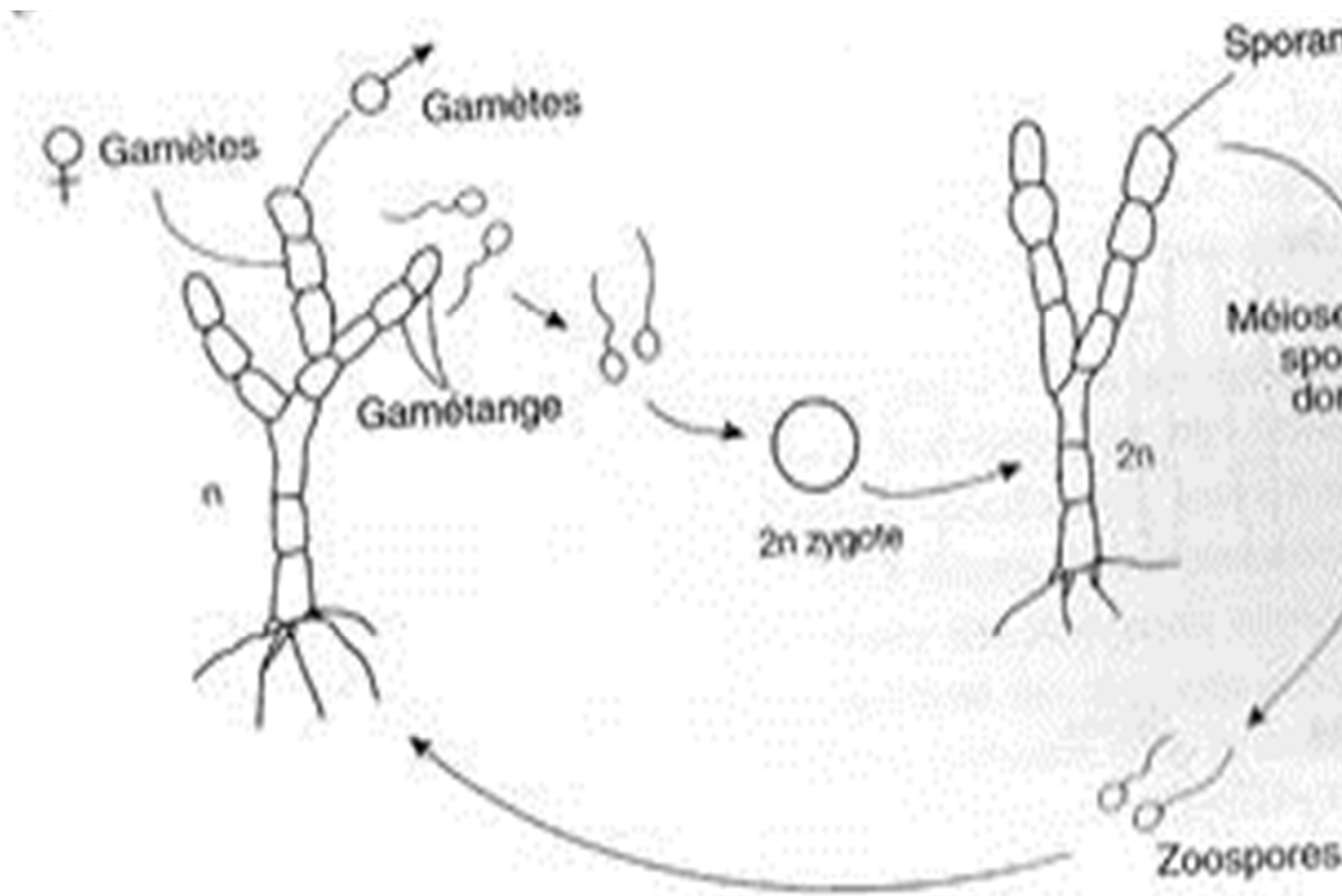
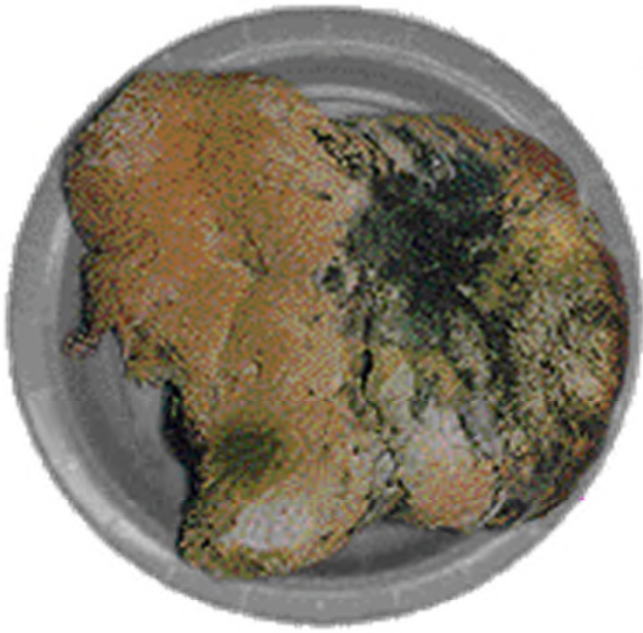


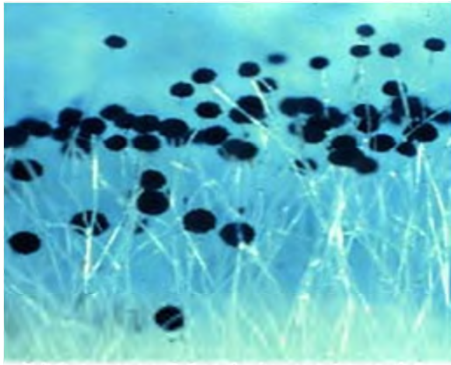
Fig. 1. Le cycle biologique du Chytride.

Zygomycètes (zygospores)

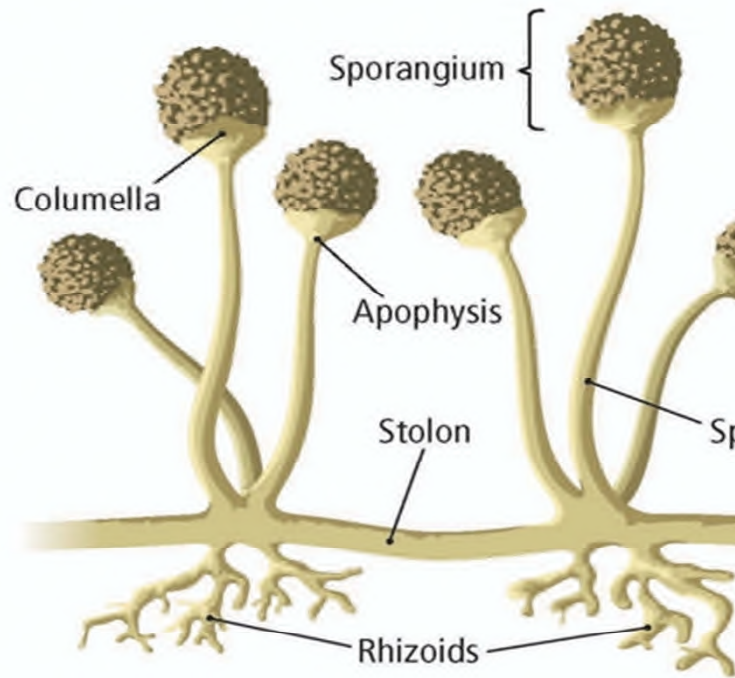


- Saprophytes (parfois pa
- Thalle siphonné
- Le nom le plus commun
la moisissure de pain
(*Rhizopus*)
- 03 ordres:
 - Mucorales
 - Endogonales
(endomycorhiziennes)
 - Entomophtorales (parasit
algues, animaux, parfois h

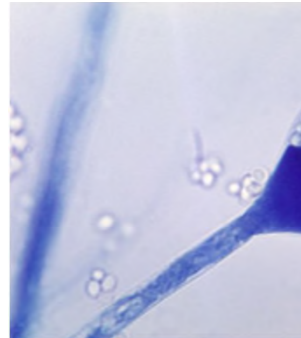
Mucorales / Moisissure de pain (*Rhizo*)



Rhizopus -black bread mold

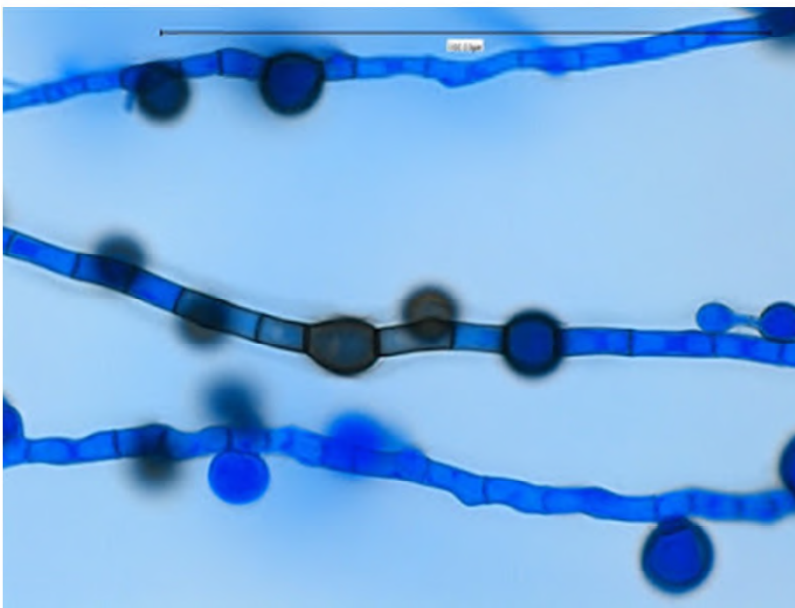


- Mycélium: + ramifié
- Rhizoïdes
- Stolons
- Columelle = Structure stérile des fructifications

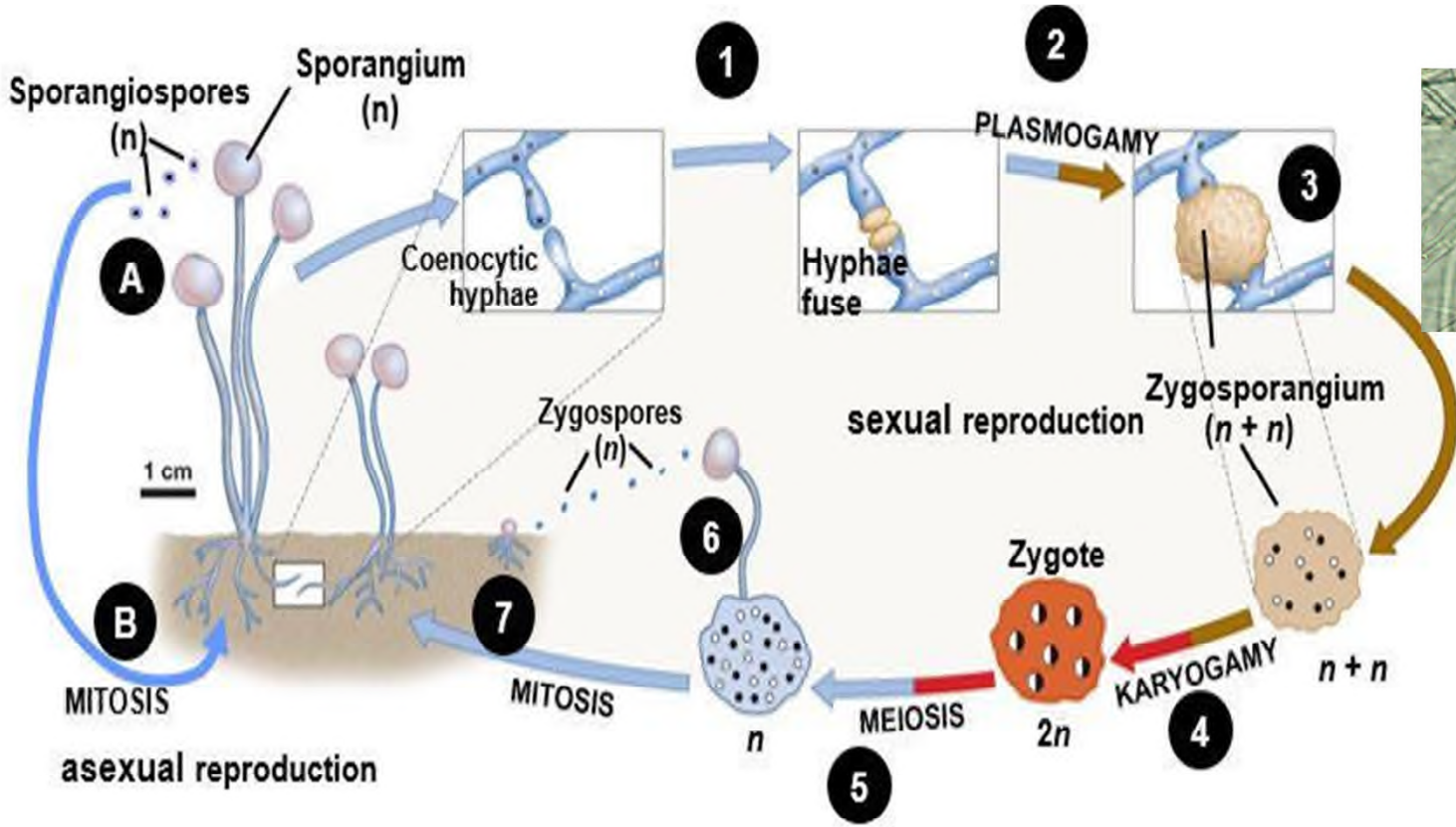


Clamydospores : certaines sp

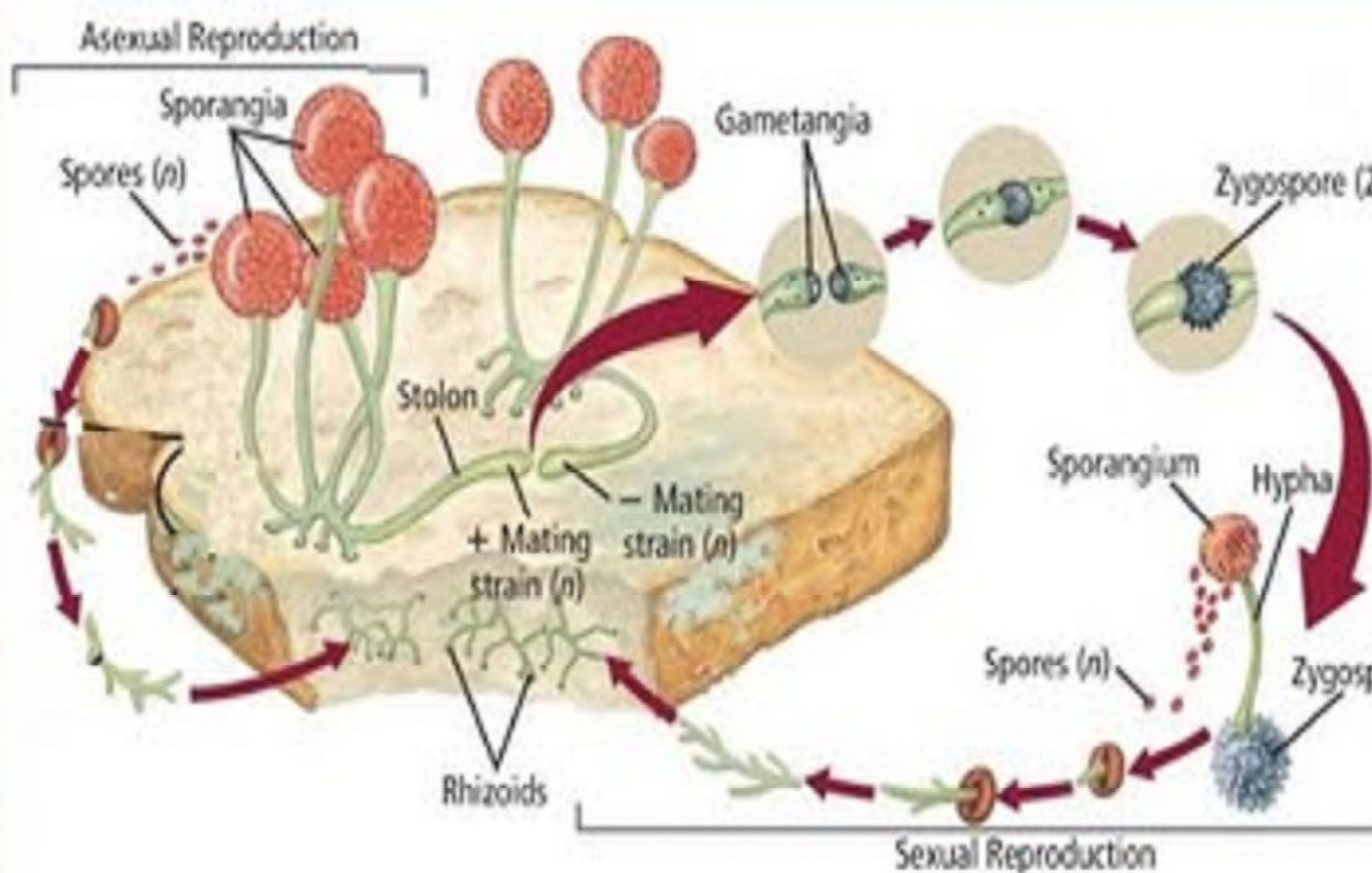
- *Mucor racemosus*
- *Mucor hiemales*
- *Mucor racemosus*



Zygomycètes/Cycle de reproduction



- **Hétérothallisme obligatoire**
- **Pas de différenciation de gamètes**
- **Gamones**
- **zygospore**



REPRODUKSI SEXUAL - ASEKUAL - *Rhizopus nigricans*

Parasites/ mycoses humaines

**Basidiobolomycose =
maladie de l'Homme-
Hippopotame**

Basidiobolus haptosporus



Lutte biologique



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Entomophthora muscae

Mort des mouches en
automne
(Muscardine)



© Luciana Bartolini



Applications Industrielles

- Richesse en enzymes: amylases, protéases...
- Fermentation: alcool
- Production d'acides aminés, succédanés de présure, Vitamines....
- Confection des aliments: Fromages, Tempeh...

