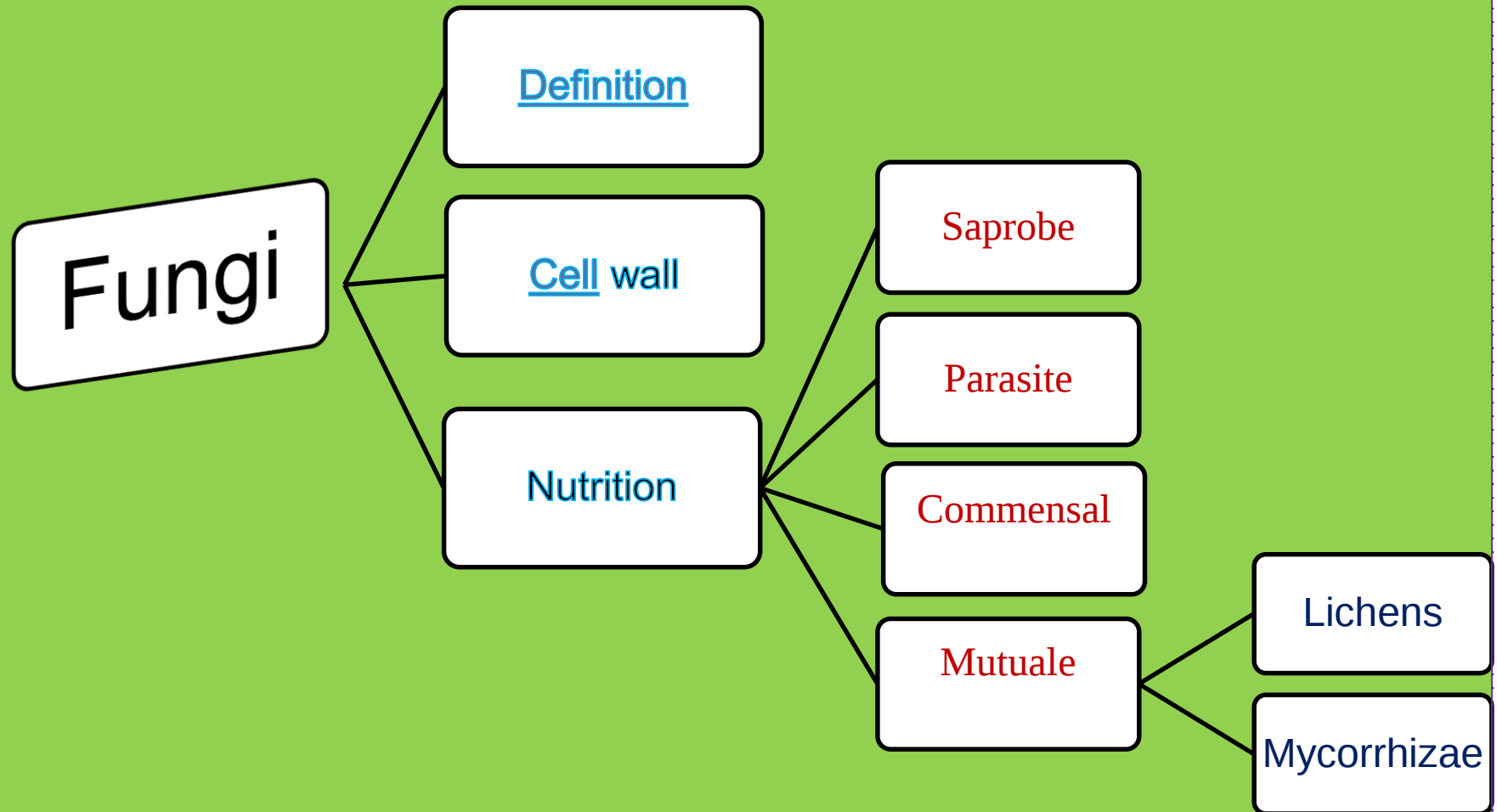


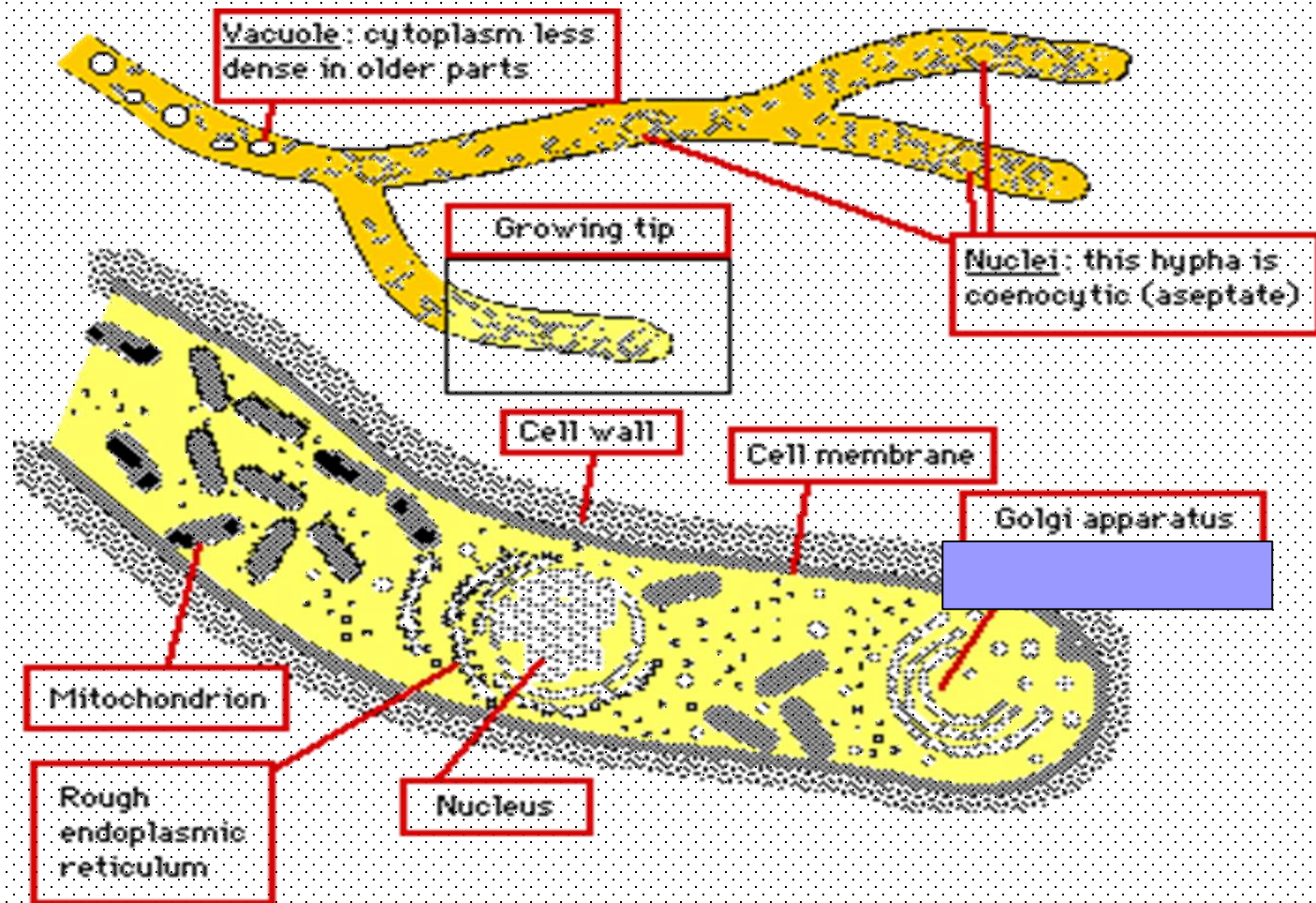
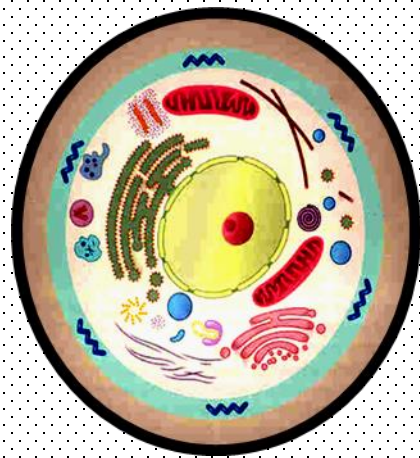


Introduction

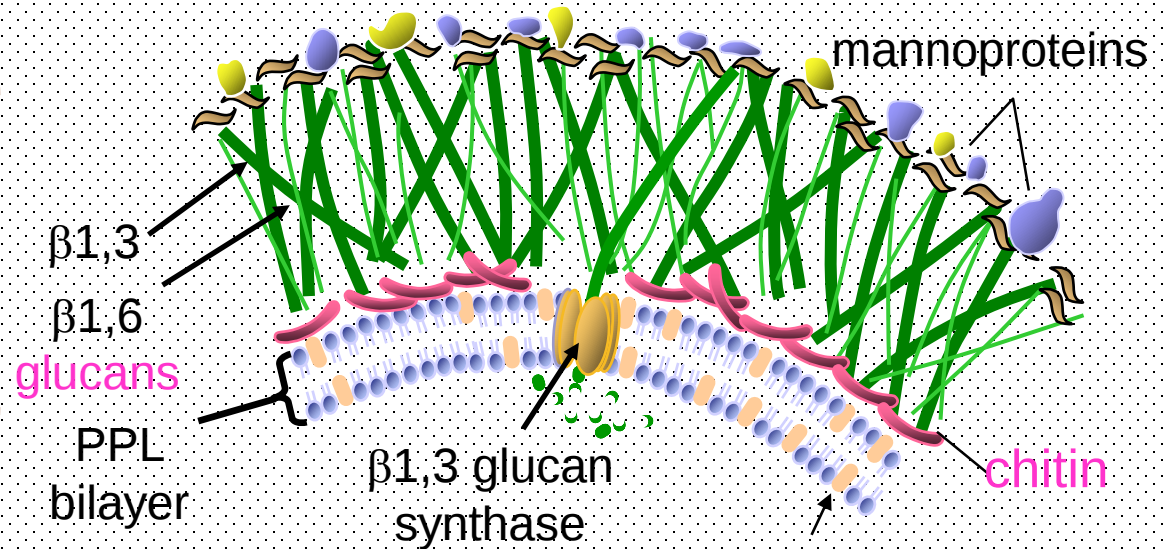
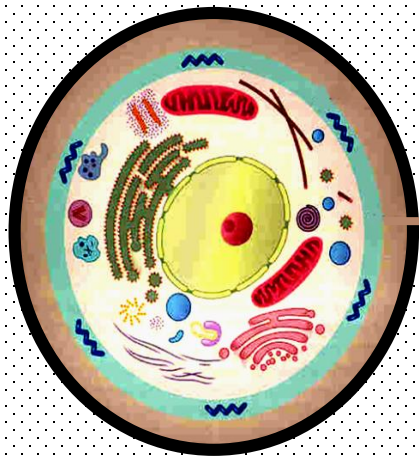
Presented by:
Dr E.Lotfali



Fungus (Pl: Fungi) Fungi (Mycetes)



The Fungal Cell Wall

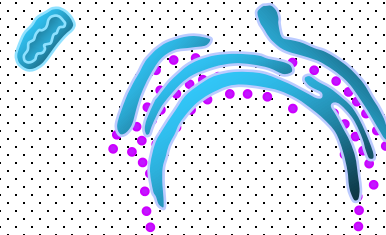


■ Mesophilic

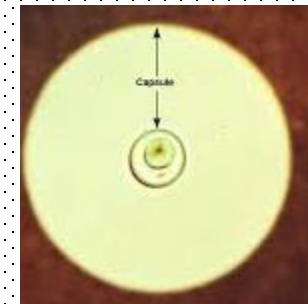
Psychrophilic

Termophilic

■ PH: 6-6.8



ergosterol

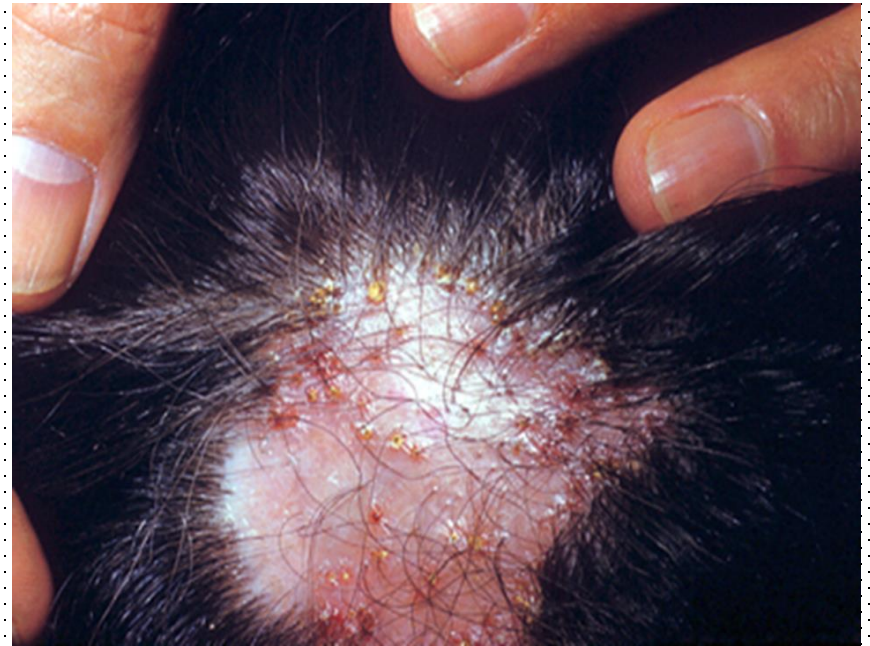


Hetrotroph

1. Saprobe fungi (Fungi on dead wood)



2. Parasite fungi



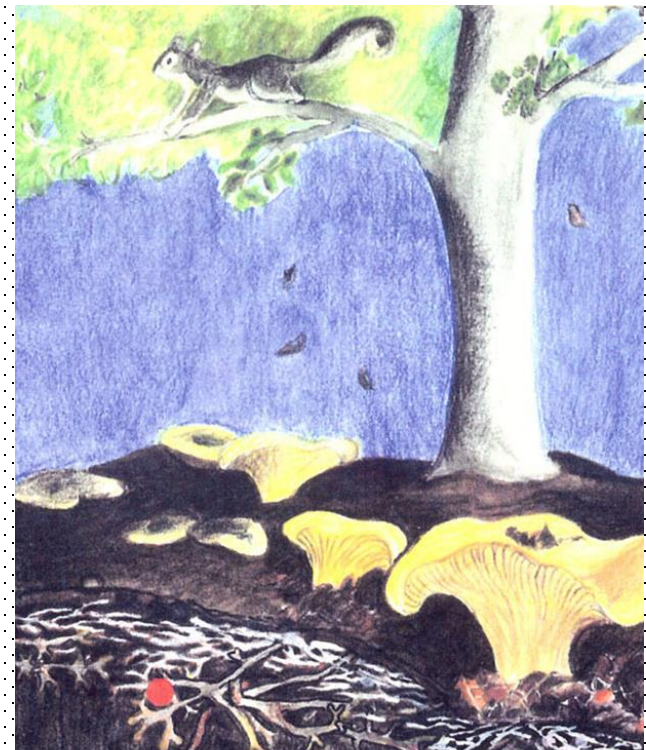
3. Mutuale fungi (symbiont)

Lichen

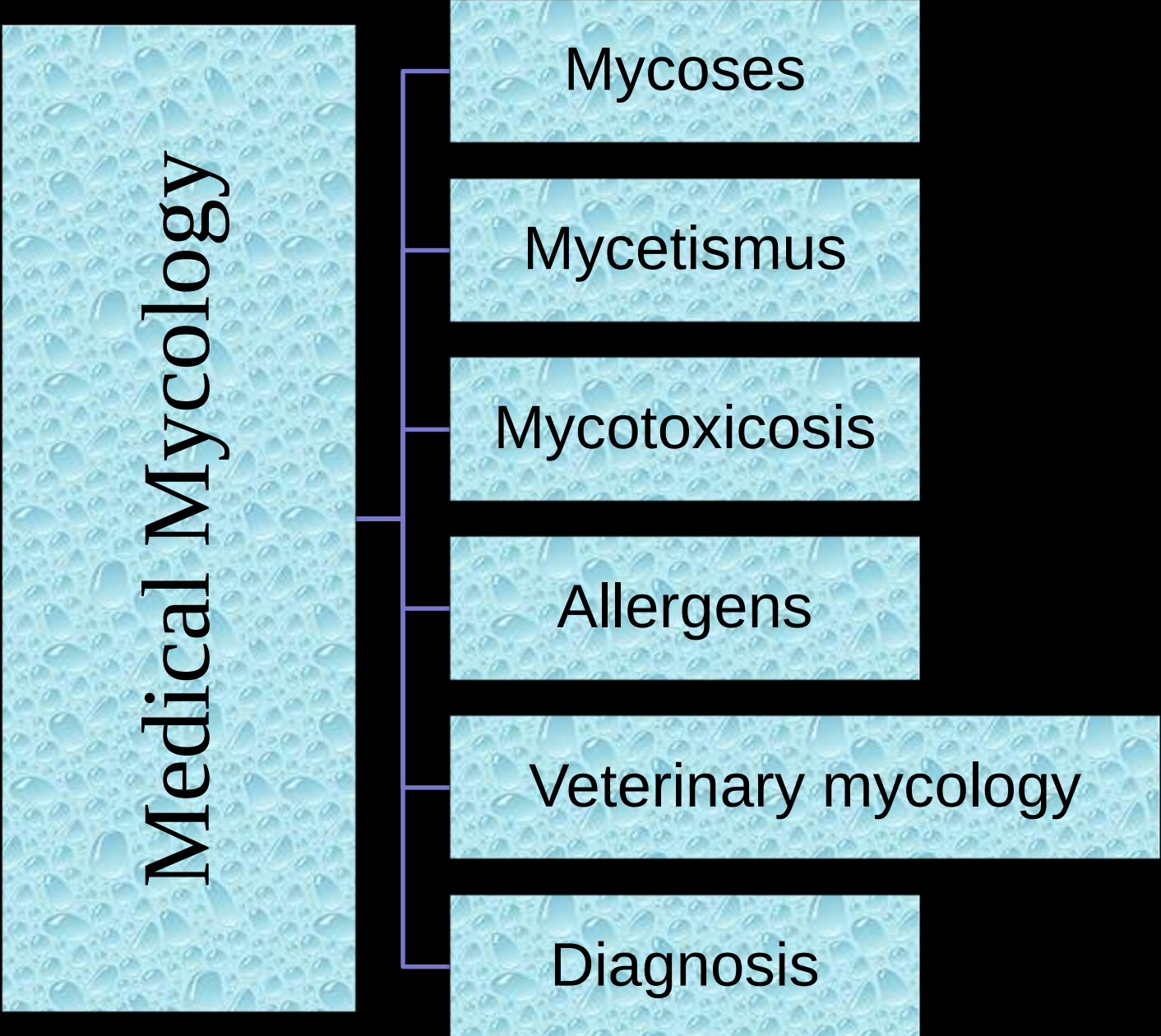


Mycorrhizal partnership

4. Commensal fungi



Medical Mycology



Mycoses

Mycetismus

Mycotoxicosis

Allergens

Veterinary mycology

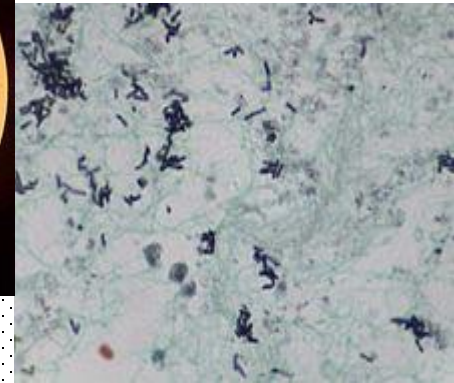
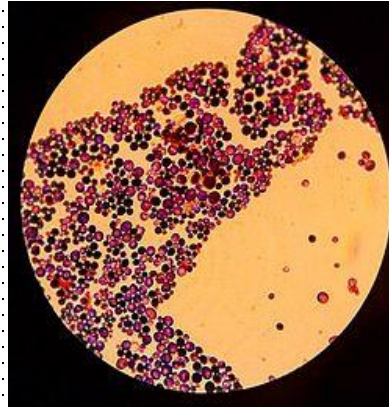
Diagnosis

Source fungal infections

□ Endogenous

Candida

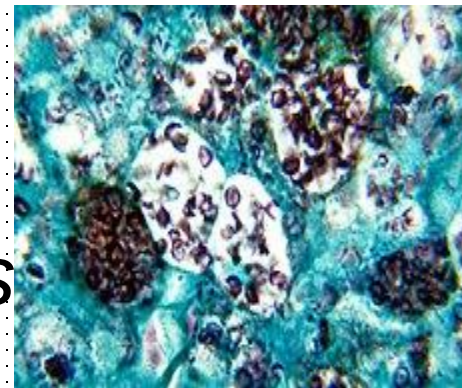
Geotrichum



□ Exogenous

Histoplasma capsulatum

Cryptococcus neoformans



Forms of fungi

Macroscopic

Edible mushrooms

Toxic mushrooms
, Toadstools

Microscopic

Unicellular
(Yeasts)

Multicellular
(Mold)

Septate hyphae

Aseptate hyphae

Hyaline Fungi

Dematiaceous Fungi

Fungi

➤ Macroscopic

Edible mushrooms

(*Agaricus bisporus*)



Toxic mushrooms, Toadstools

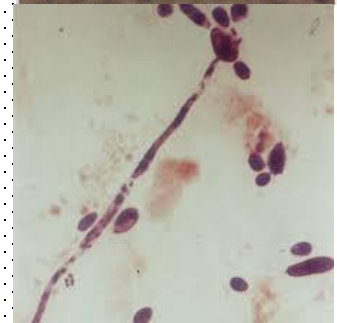
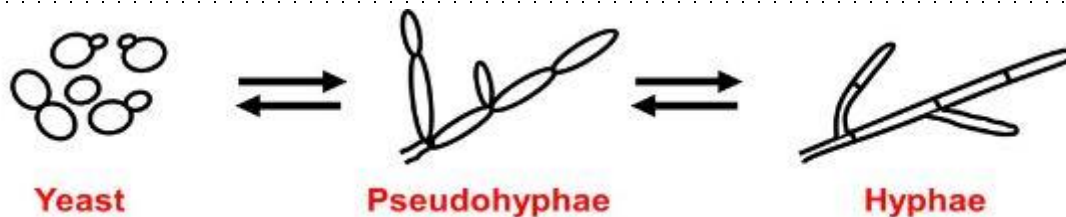
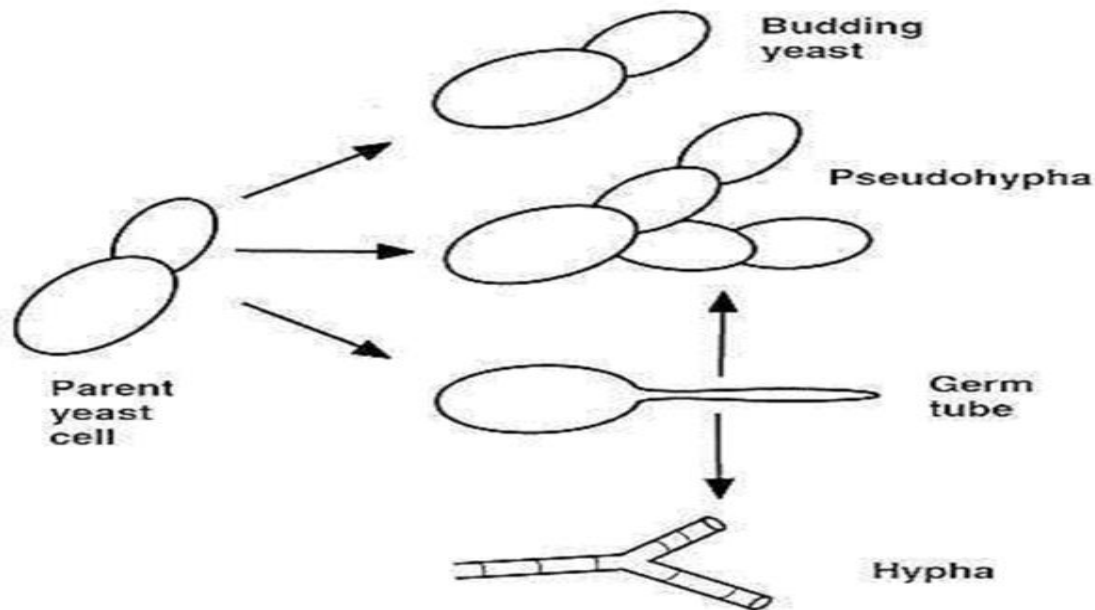
(*Amanita muscaria*)



➤ Microscopic

☐ Unicellular

Yeasts



❑ Multicellular

Mould

Filamentous (Mycelial)

1-Septate hyphae:

Aspergillus

Scopulariopsis

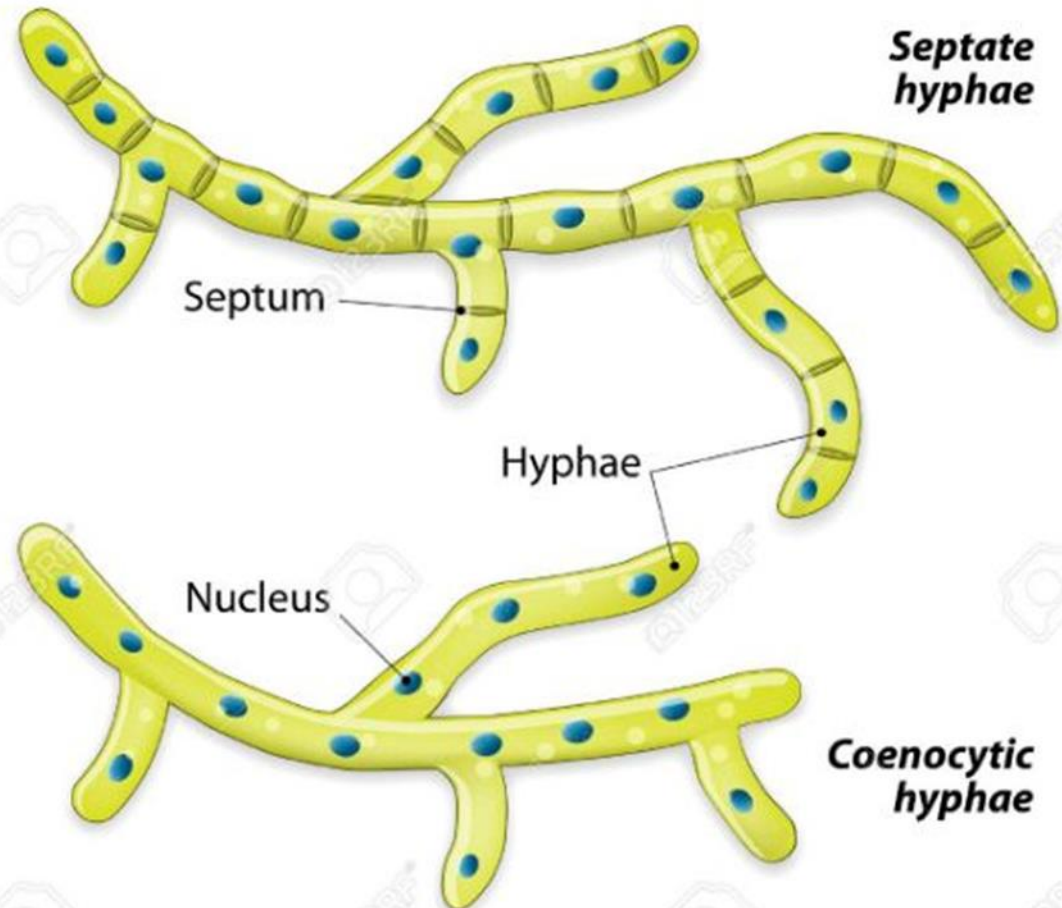
2-Aseptate hyphae:

Mucor

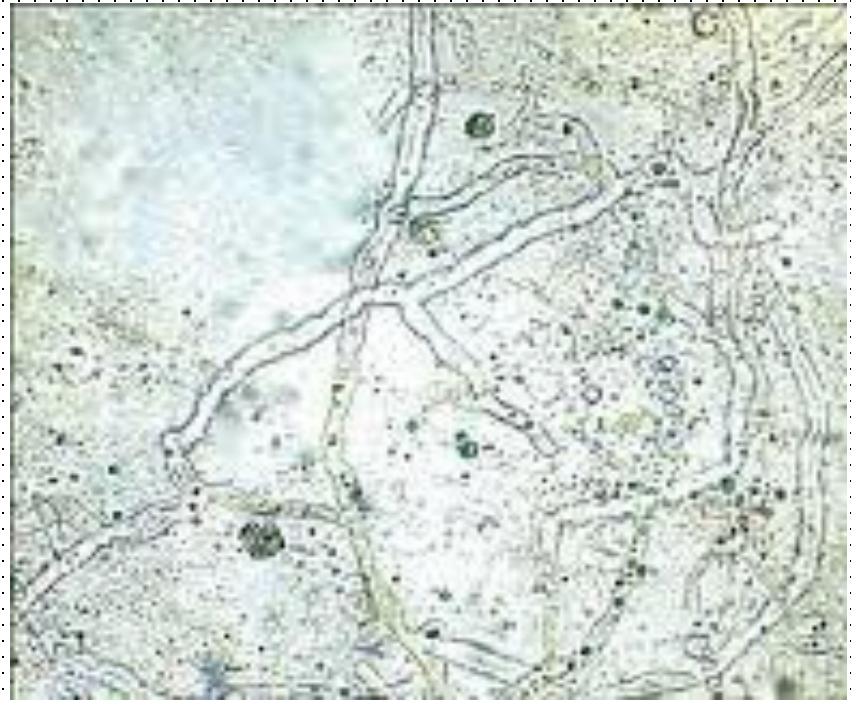
Rhizopus



FUNGI



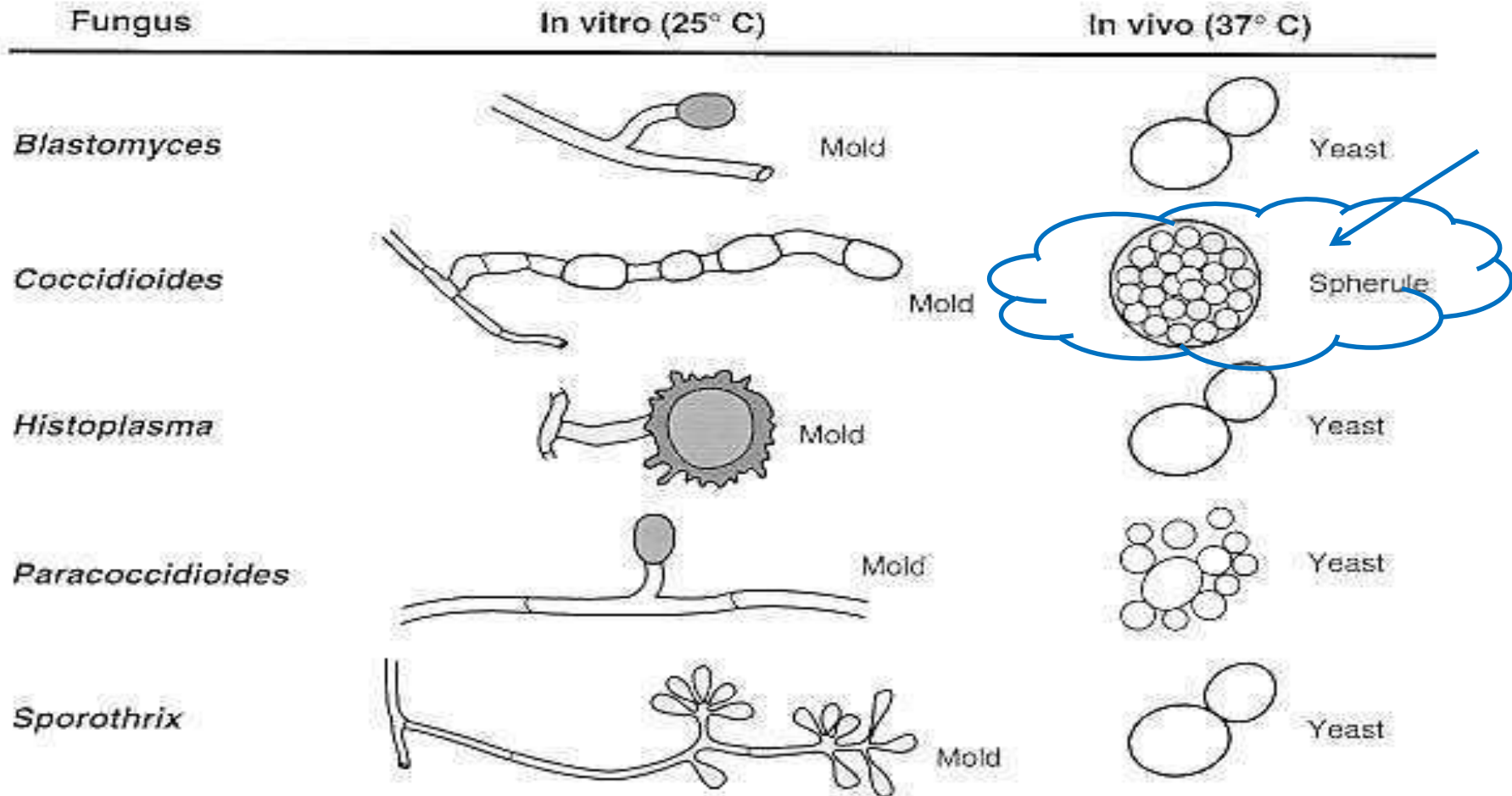
- **1-Hyaline Fungi:**
- Aspergillus
- Scopulariopsis



- **2-Dematiaceous (Pigmented) Fungi:**
- Alternaria
- Cladosporium

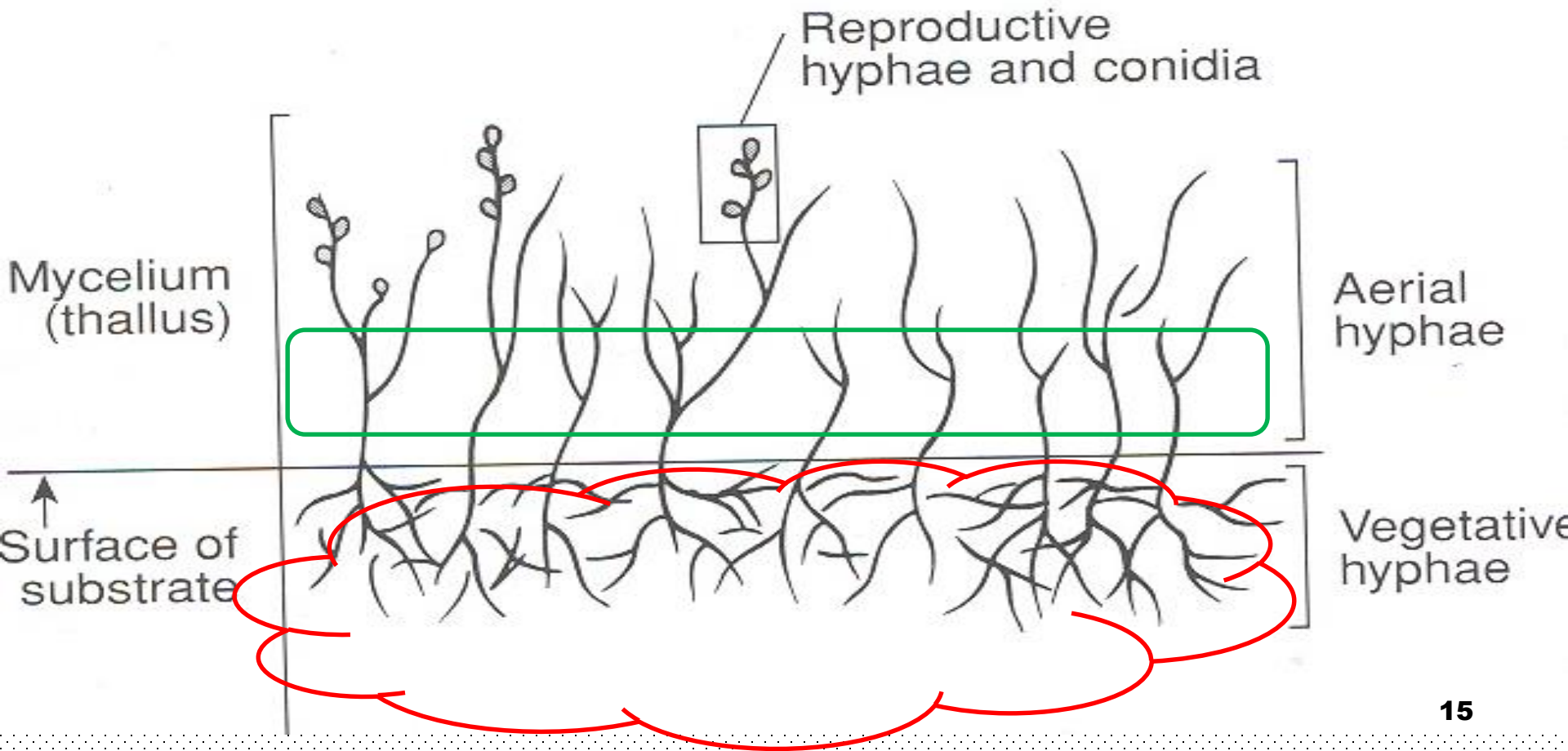


Termal Dimorphic Fungi:



(*penicillium marneffei*)

Microscopic structures: (Vegetative & Reproductive)



Reproduction

Sexual

Ascospore

cleistothecium
perithecium
apothecium
gymntheicum

Basidiospore

Zygospore

Oospore

Asexual

Blastoconidium

Phialoconidium

Annelloconidium

Microconidium

Macroconidium

Arthroconidium

Chlamydoconidiu

Sporangiospore

Binary fission

Reproduction

Sexual

Ascospore

Basidiospore

Zygospore

Oospore

*Asexual

Budding

Blastoconidium

Phialoconidium

Annelloconidium

Microconidium

Macroconidium

Arthroconidium

Chlamydoconidium

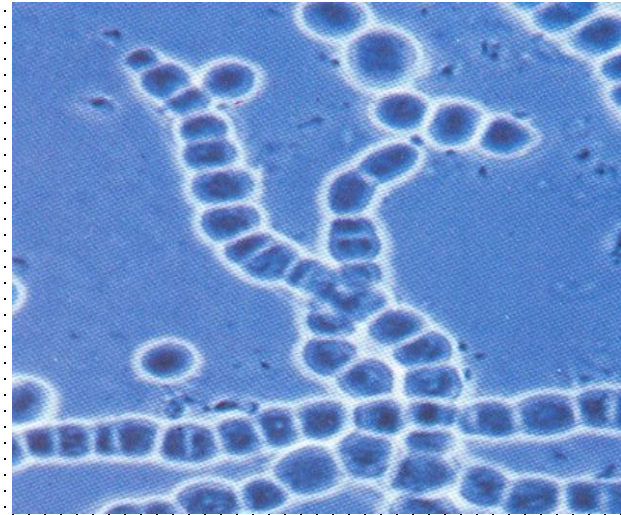
Sporangiospore

Binary fission: **p. marnefiei**

Blastoconidium (Budding cell)
(Yeasts)



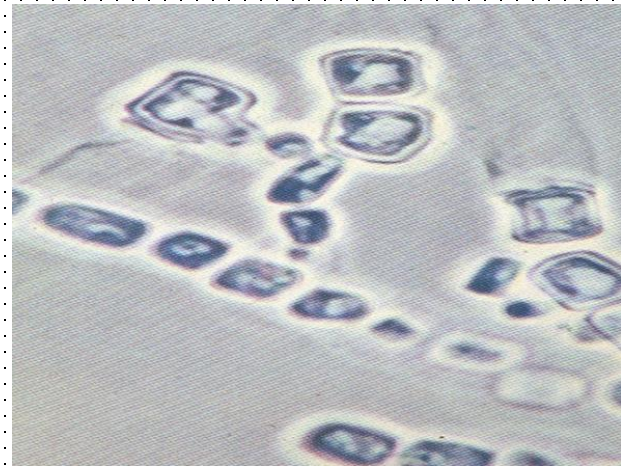
Chlamydoconidia
(Dermatophytes)



Microconidia & Macroconidia
(Microsporum canis)



Arthroconidia
(Dermatophytes)





Thank you for
your attention