

Lab-8-

Class : Discomycetes

General characteristics :

- 1- The type of fruiting body is Apothecium .
- 2- Hymenium layer open and sometimes closed .
- 3- fruiting body maybe Above or under the soil .
- 4- classification property of this class Is a presence Operculate on ascus or Inoperculate .

Order 1: Helotiales

General characteristics :

- 1- fruiting body Disc shape or Apothecium above the soil .
- 2- Inoperculate ascus .
- 3- Ascospore cup shape .
- 4- The most members of this order living saprophytic on wood plants .

Family : Sclerotinaceae Includes

- ❖ *Monilina sp.* cause Brown rot on trees have stony endocarp.
- ❖ *Sclerotina sp.* cause White rot on herbaceous, flowers and vegetables .

Order 2: Tuberales

General characteristics :

- 1- Include all types of Truffles Which is a fruiting body cup shape live above the soil .
- 2- Some of the truffle species are highly prized as food.
- 3- Truffles are ectomycorrhizal fungi and are therefore usually found in close association with tree roots. Spore dispersal is accomplished through fungi, animals that eat fungi .
- 4- The most important family Terfeziaceae include many species of Iraqi truffles ex: *Terfezia sp.*, *Phaeangium sp.*, *Trimania sp.*

Class : Ioculoascomycetes

Order : Pleosporales

General characteristics :

- 1- fruiting body Perithecium and It is called Pleospora type .
- 2- Sterile threads be kind Pseudoparaphysis .
- 3- The most important family pleosporaceae include:
 - ❖ *Sporomia sp.* living on Dung animals Herbivorous.
 - ❖ *Pleospora sp.* It is a plant pathogen infecting several hosts including alfalfa, apples, tomatoes, citrus and chickpea. It has a cosmopolitan distribution, and is common in temperate and subtropical regions.
- 4- The second family is Venturiaceae :

Ex: *Venturia inaequalis* causes the Apple scab disease Lead to deformation of fruits .

Class: Laboulbeniomycetes

Order : Laboulbeniales

Family : Laboulbeniaceae

All kinds of fungi live on insects such as spiders, ants and cockroaches , Each one specializes on one insect . fruit body have Small-necked with one asci ,The important species *Laboulbenia sp.*