

Lab:(1)

Kingdom: Protista

Phylum(1): Sarcomastigophora

(A) Sub-phylum: Mastigophora

Class (1) : Phytomastigophota

Ex : *Noctiluca*

Class (2) : Zoomastigophora

Ex : *Triconympha*

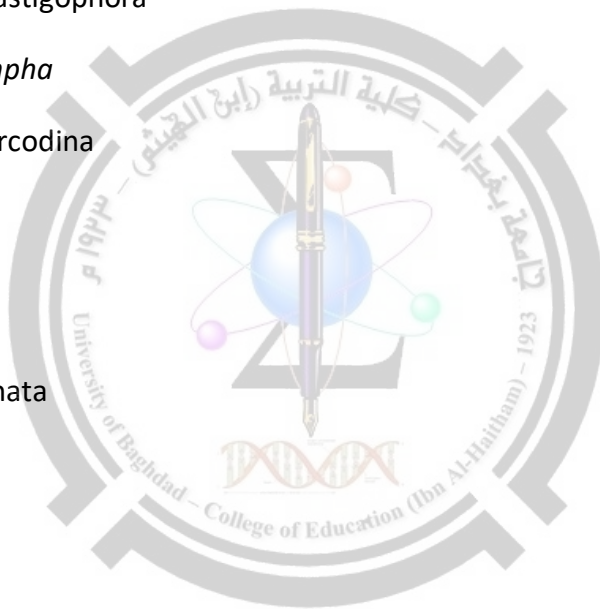
(B) Sub-phylum : Sarcodina

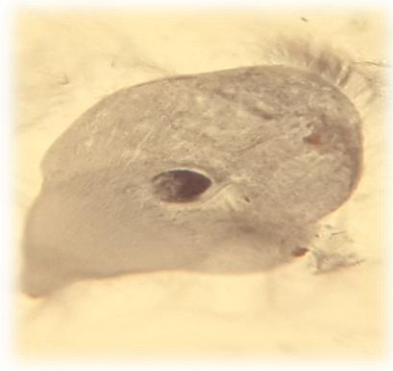
Class : Lobosa

Ex : *Pelomyxa*

(C) Sub-phylum : Opalinata

Ex : *Opalina*





Trichonympha



Opalina



Pelomyxa

Noctiluca

Lab : (2)

Kingdom : Protista

Phylum(2) : Apicomplexa

Class : Sporozoa

Ex : *Monocystis*

Phylum (3) : Ciliophora

Class (I) : Oligohymnophora

Ex : *Paramecium* (W.M , conjugation , Binary fission)

Class (II) : Polyhymnophora

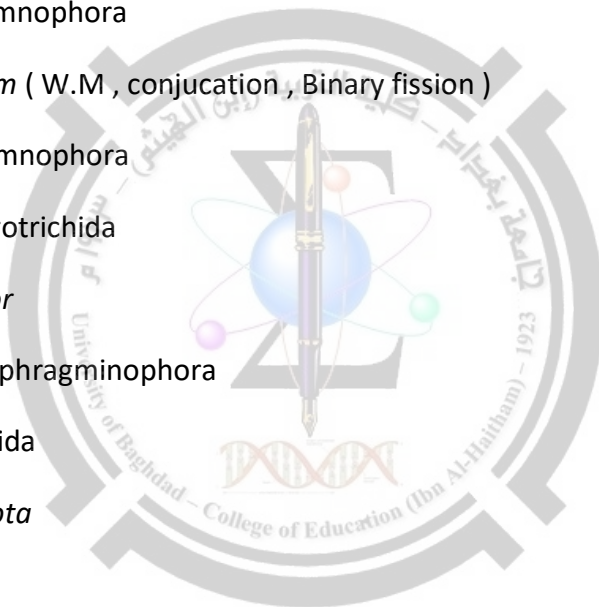
Order : Heterotrichida

Ex : *Stentor*

Class (III) : Kinetophragminophora

Order : Suctorida

Ex : *Ephelota*





Paramecium(w.m)

Paramecium(binary fission)



Ephelota

Paramecium (B.F)



Paramecium (conjugation)



Stentor



Lab (3)

Kingdom : Animalia

Phylum : Porifera

Class (I) : Calcarea

Ex : *Leucosolenis* (W.M , L.S. , Spicules)

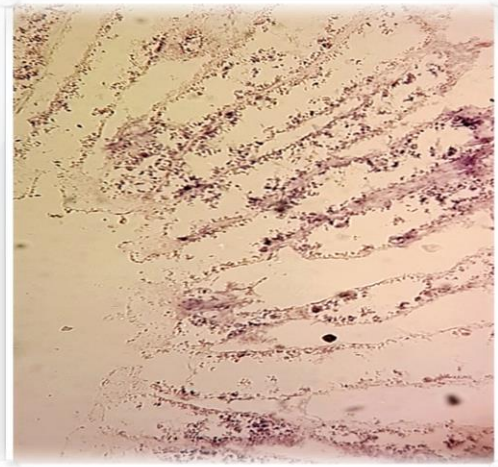
Ex : *Grantia*



Grantia(Spicules)



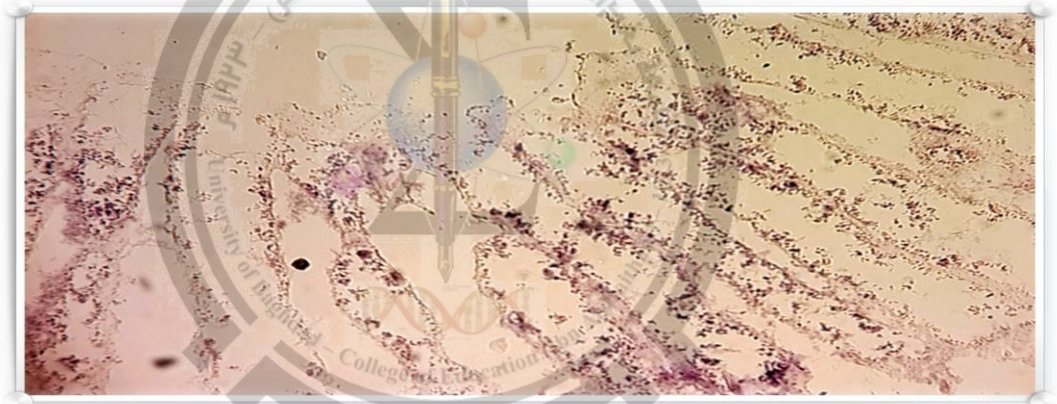
Leucosolenis(Triaxon Spicules)



Grantia(c.s.)



Leucosolenia(w.m)



Grantia(c.s.)

Lab(4)

Kingdom : Animalia

Phylum : Prifera

Class : Demospongia

1- Order : Monoaxonida

Ex : *Spongilla* (spicules , gemmules)

2- Order : Keratosa

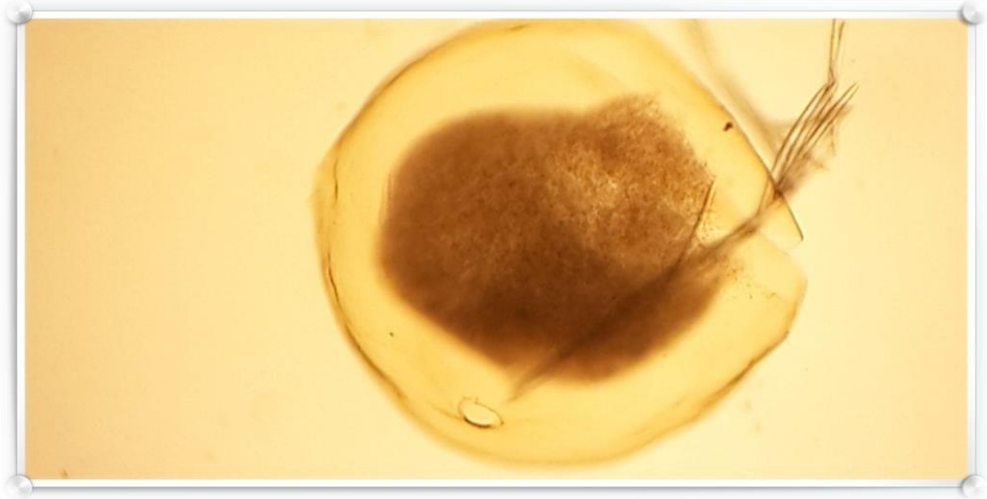
Ex : *Euspongia* (W.M. , Skeleton)



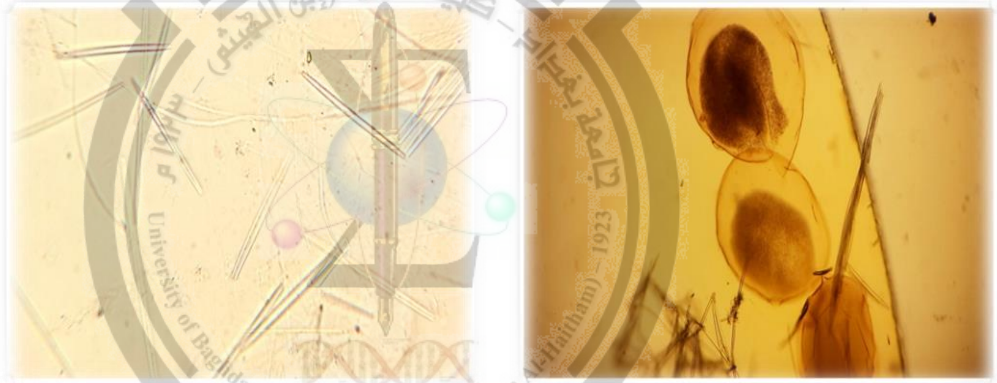
Euspongia (skeleton)



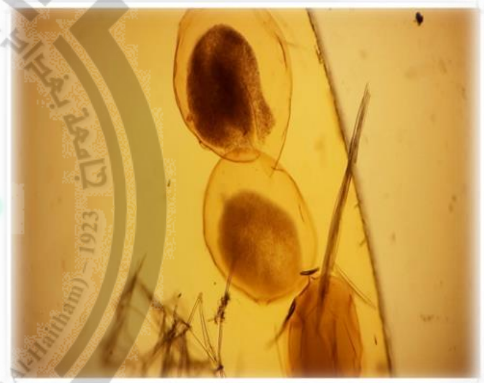
Euspongia



Spongilla(gemmules)



Spongilla (spicules)



Spongilla(gemmules)

Lab (5)

Kingdom : Animalia

Phylum : Coelentrata

Class(I) : Hydrozoa

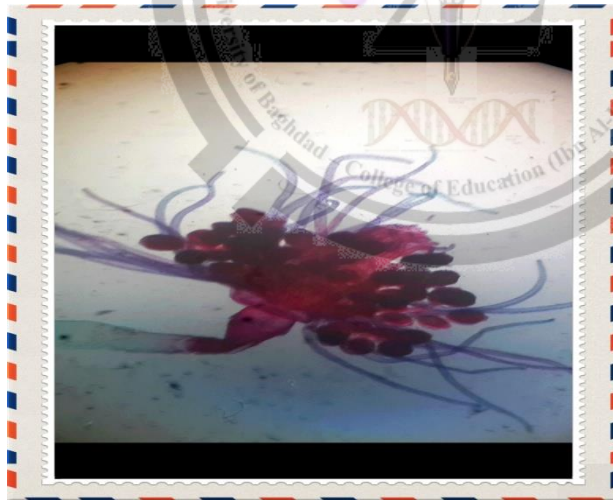
a- Order : Calyptoblastia

Ex : *Obelia* (Medusa , polyp)

b- Order : Gymnoblastia

Ex : *Tubularia*

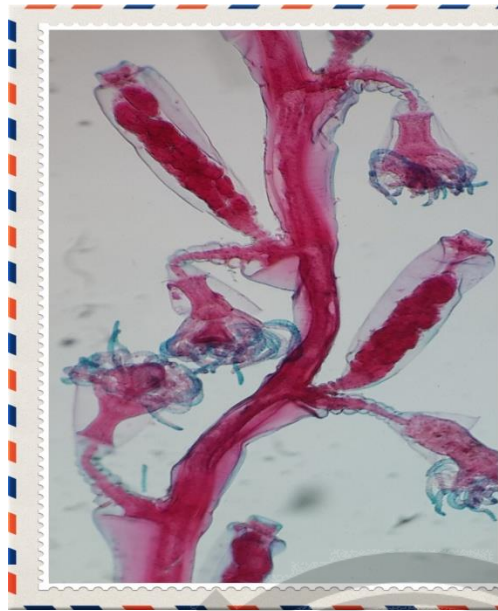
Ex : *Pennaria*



obelia (Medoza)



Tubularia



Pennaria



Obelia (Polyp)

