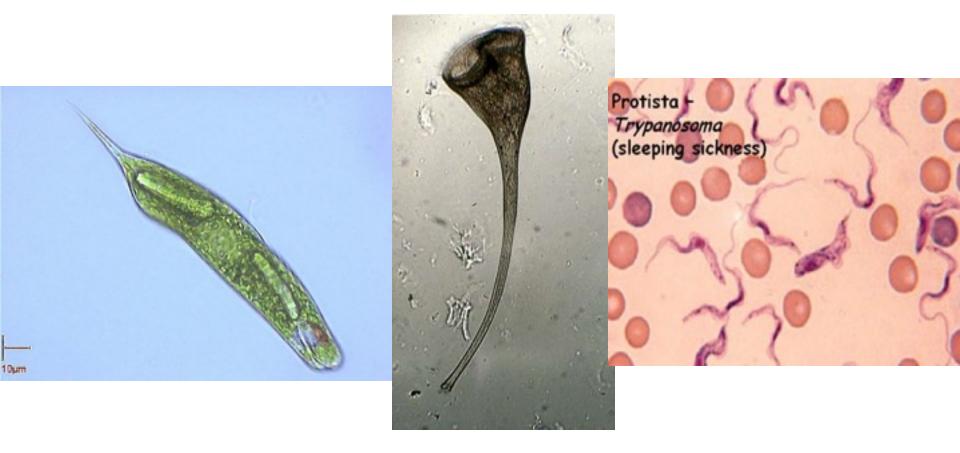
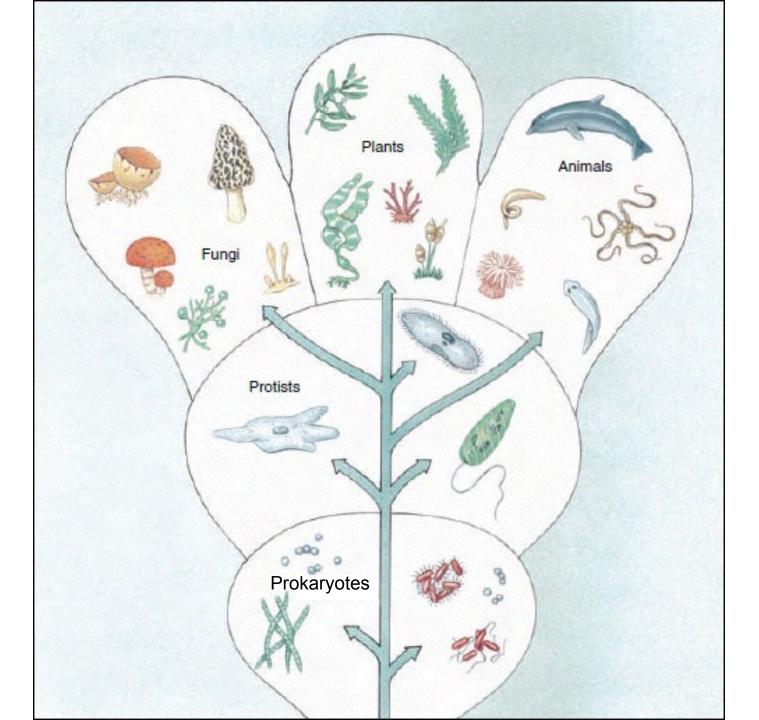
### Protista





# Protista

- all single celled eukaryotes (simple multicellular organisms)
- three distinct groups: plant-like, animal-like & fungi-like protists
- believed that each group evolved into the three kingdoms (plants, animals, fungi)

#### A. Plant-like Protists

=commonly called Algae

- undergoes photosynthesis (autotrophic)
- these contain and are classified by their chlorophyll types

examples: **Euglenoid** euglena- (unicellular-green-motile)

Green Algae volvox, spyrogyra (multicellular-green chlorophyll)

Brown Algae - kelp (mulitcelluar-brown chlorophyll)

Red Algae- Sushi seaweed

Dinoflagellate- red tide (unicellular-red to brown chlorophyll)

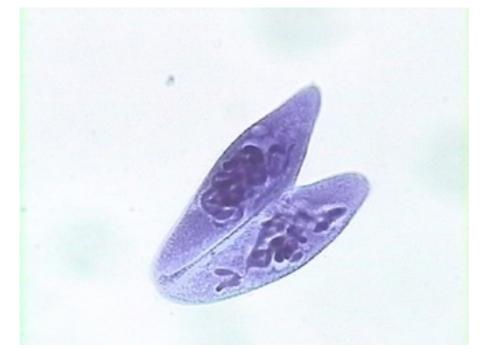






- Heterotrophic, motile and are unicellular
- 4 groups
- usually reproduce asexually
- Some can conjugate





<u>1. Cercozoa</u> - move by **pseudopods** (fake-feet)

 pseudopods used for moving and engulfing food particles

eg., amoeba

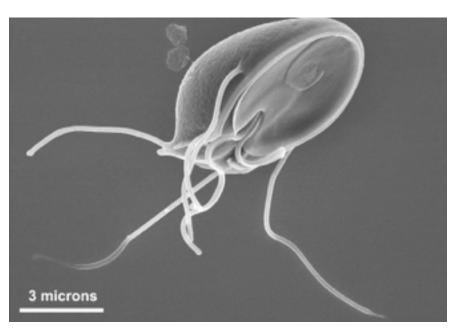


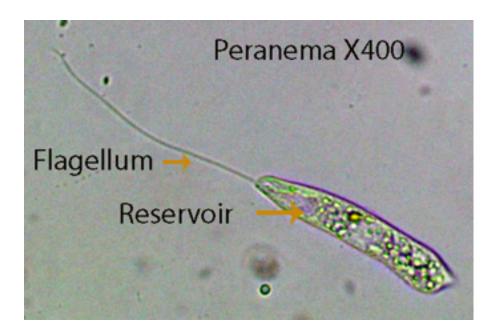
#### <u>2. Ciliates</u>

- move by cilia
- eg., Paramecium can discharge poison-laden barbs for defence or to capture prey



- <u>3 Flagellates</u> move by flagella
- many parasitic & cause disease
- eg., Giardia lamblia causes 'beaver fever'
- ---> always boil water when camping!





<u>4. Sporazoa</u> - limited means of locomotion (vectors move them)

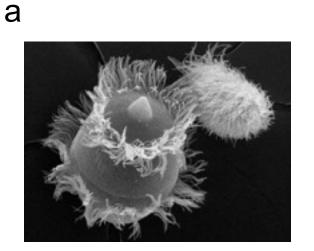
-all parasites

eg., *Malaria* -part of life cycle is in mosquito and part in humans





» Identify the following as specifically as algae (plant-like) or protozoa (animal-like)?



С









# C. Fungilike Protists

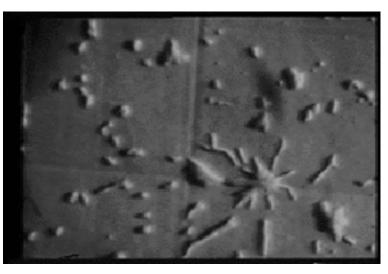
#### = Slime moulds

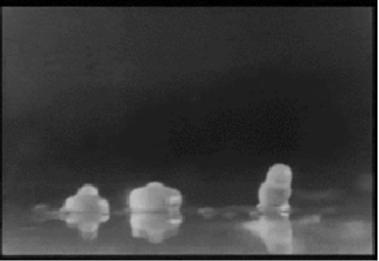
- produce spores like fungi in a fruiting body like structure
- Heterotrophic

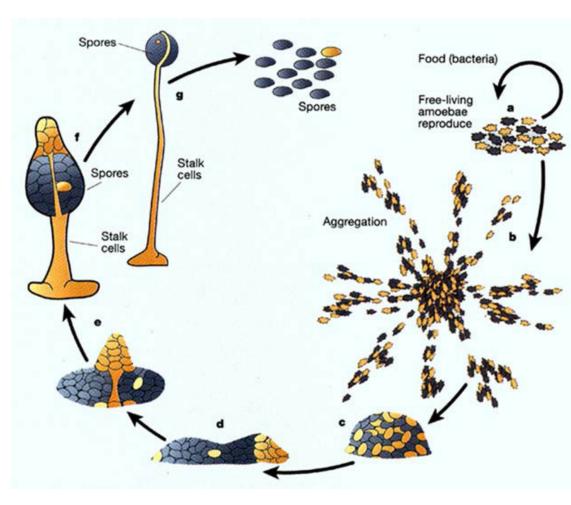




 Cellular slime moulds- collections of amoeba-like that come together and produce fruiting bodies that make spores









# *Plasmodial slime moulds-* are a large multinucleate cell.

