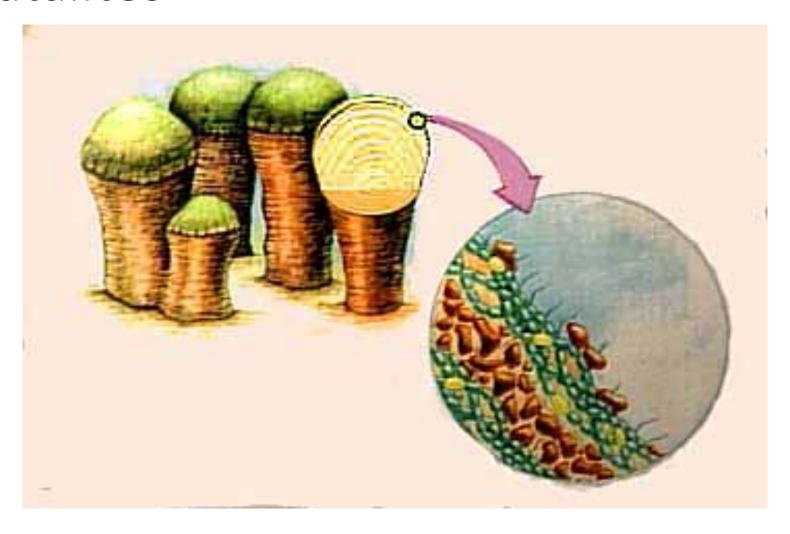
Stromatalites



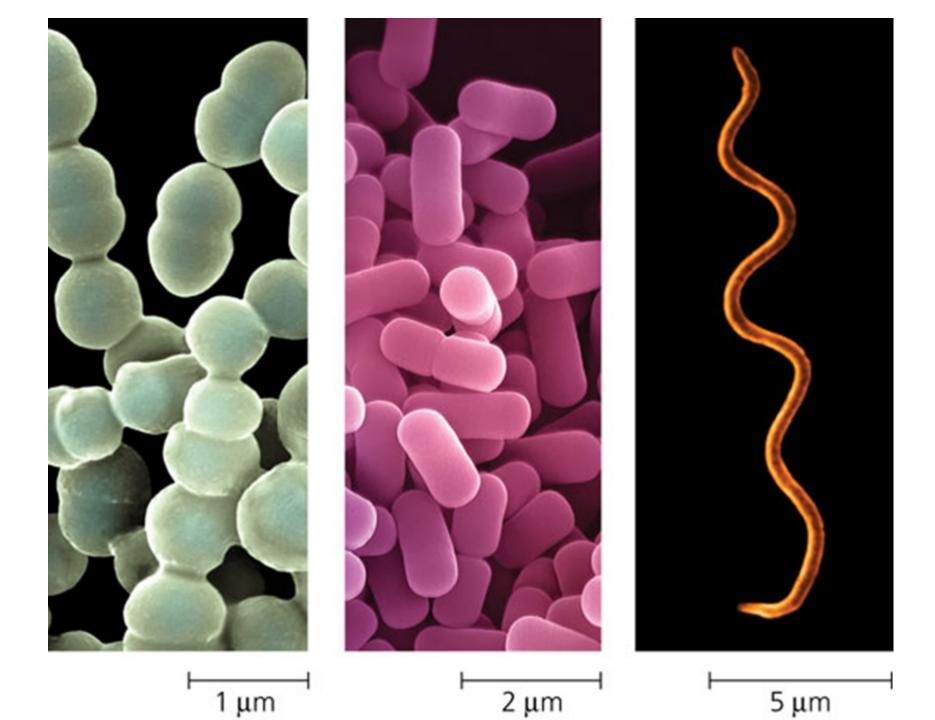


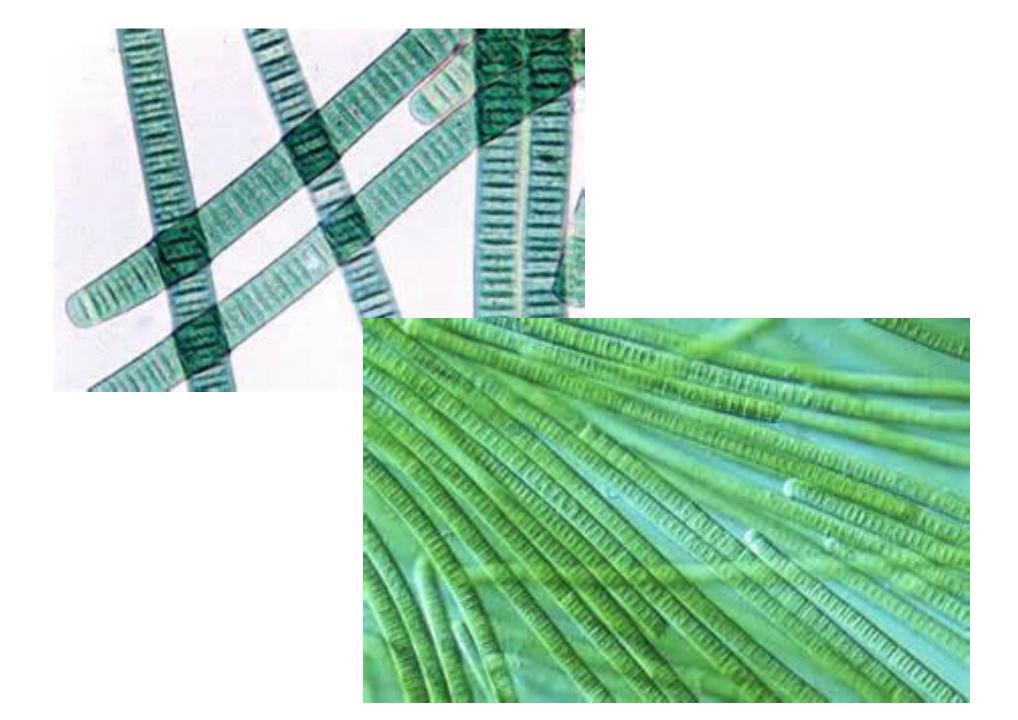
Stromatalites



Archaea









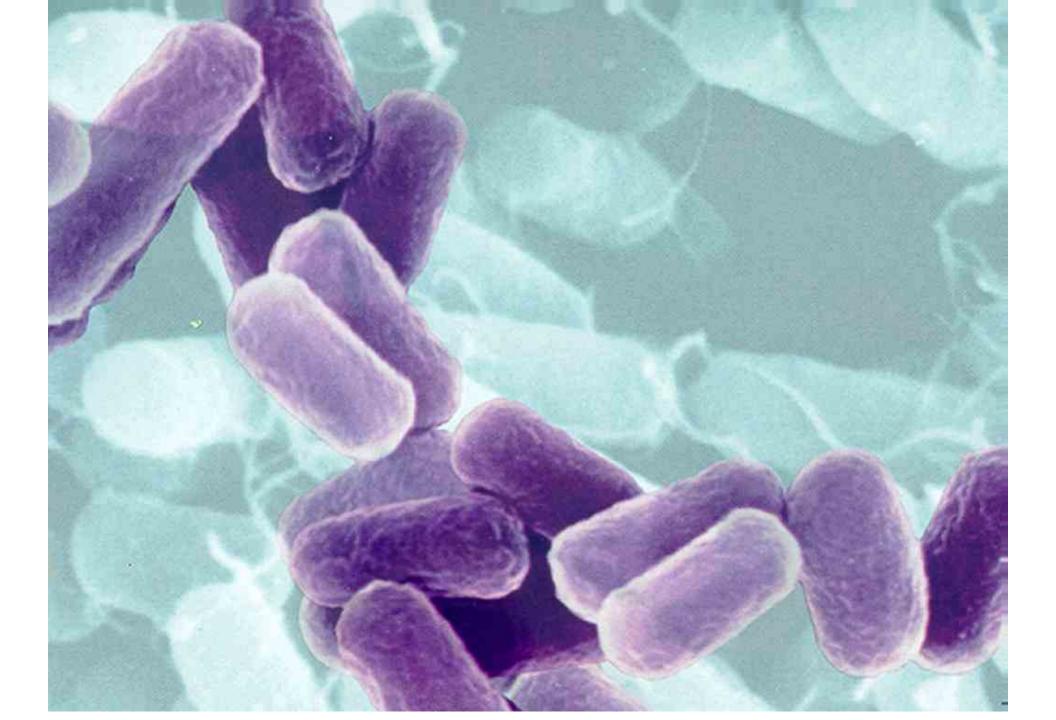


Rod-shaped bacteria (Bacilli) - Salmonella

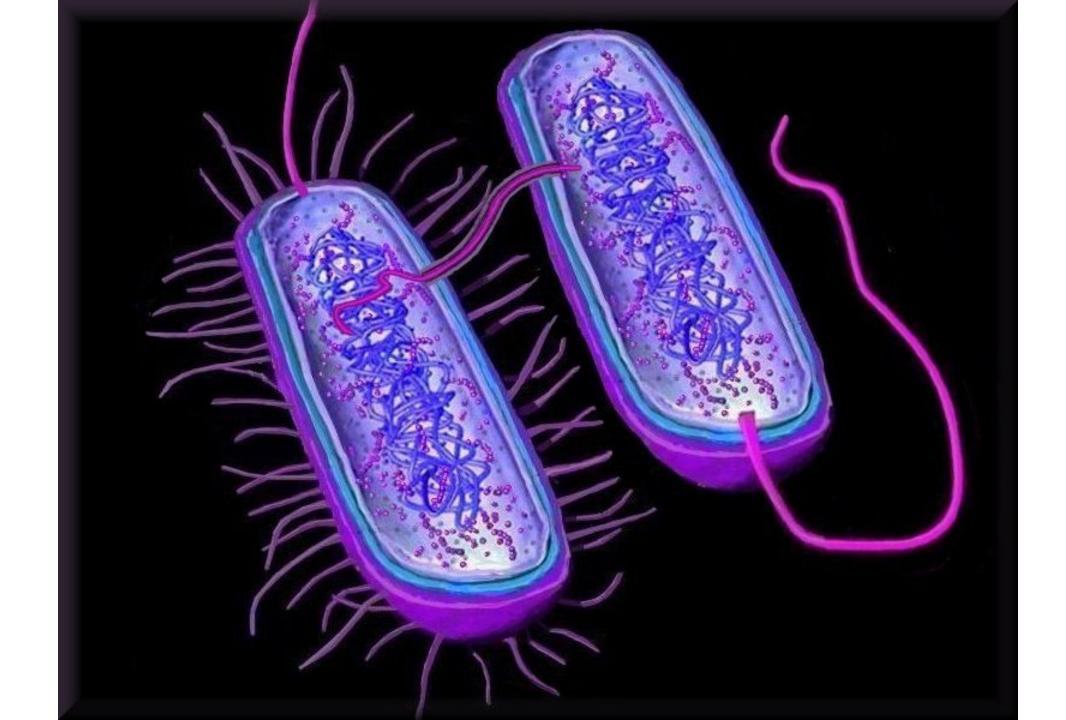
Sphere-shaped bacteria (Cocci)

- Streptococcus





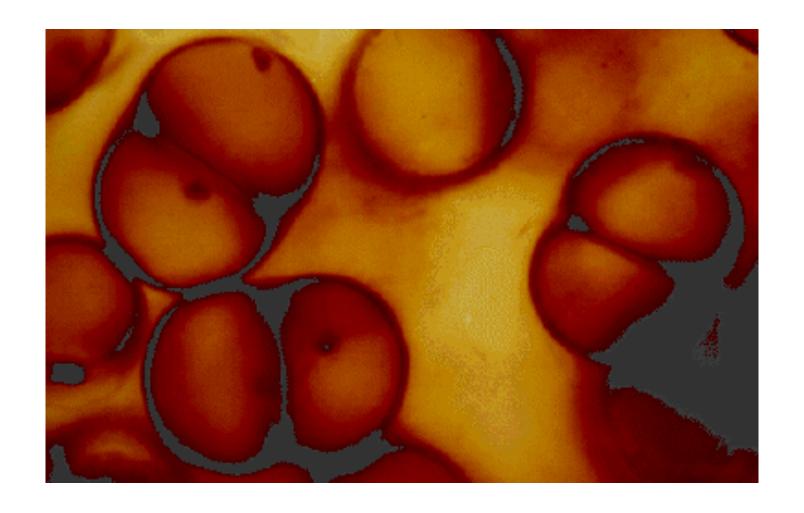


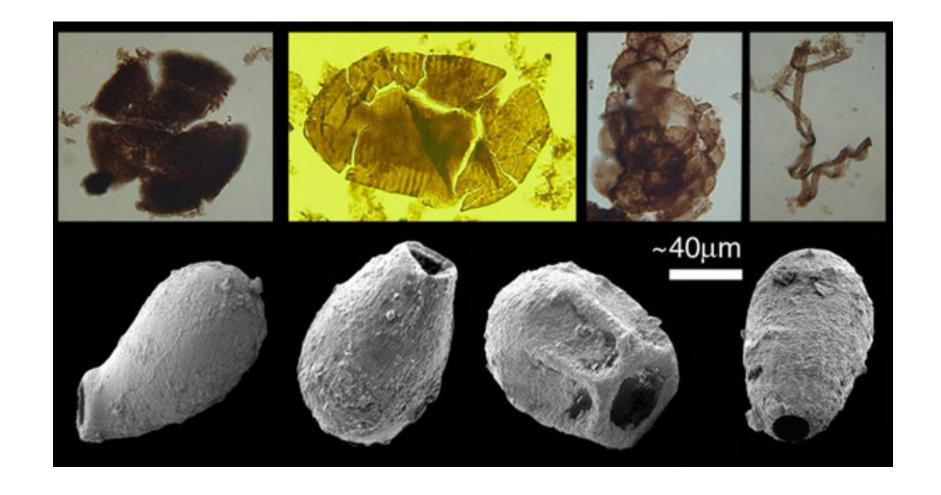




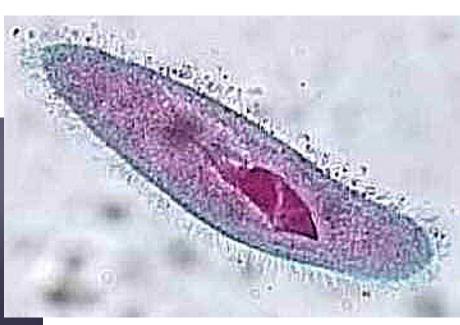
Oldest Eukaryotic Fossils ~ 2.1 bya





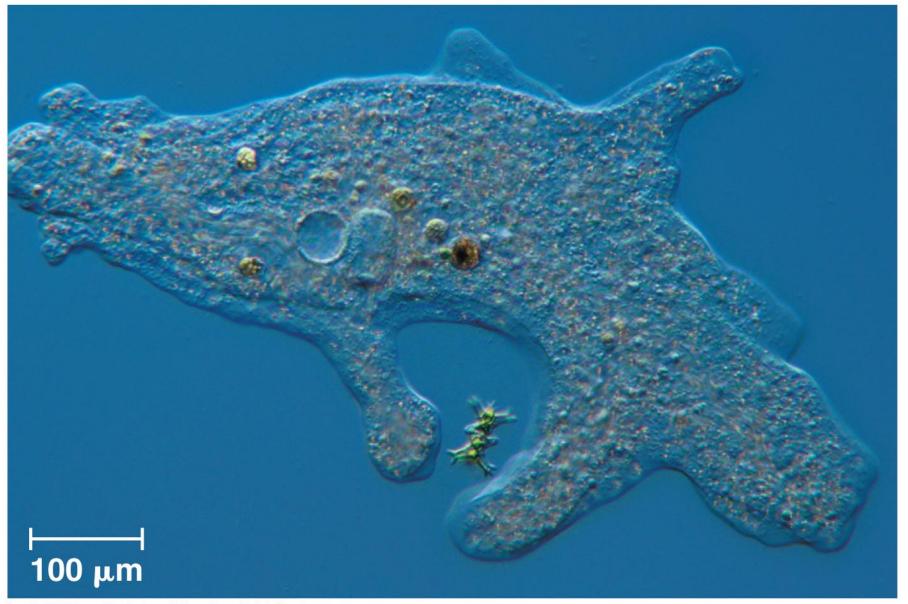


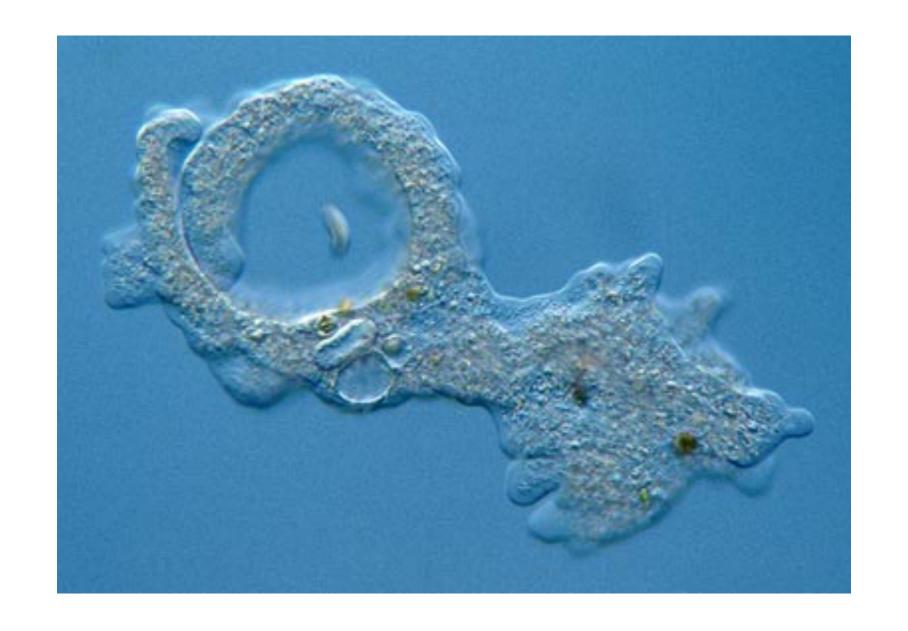




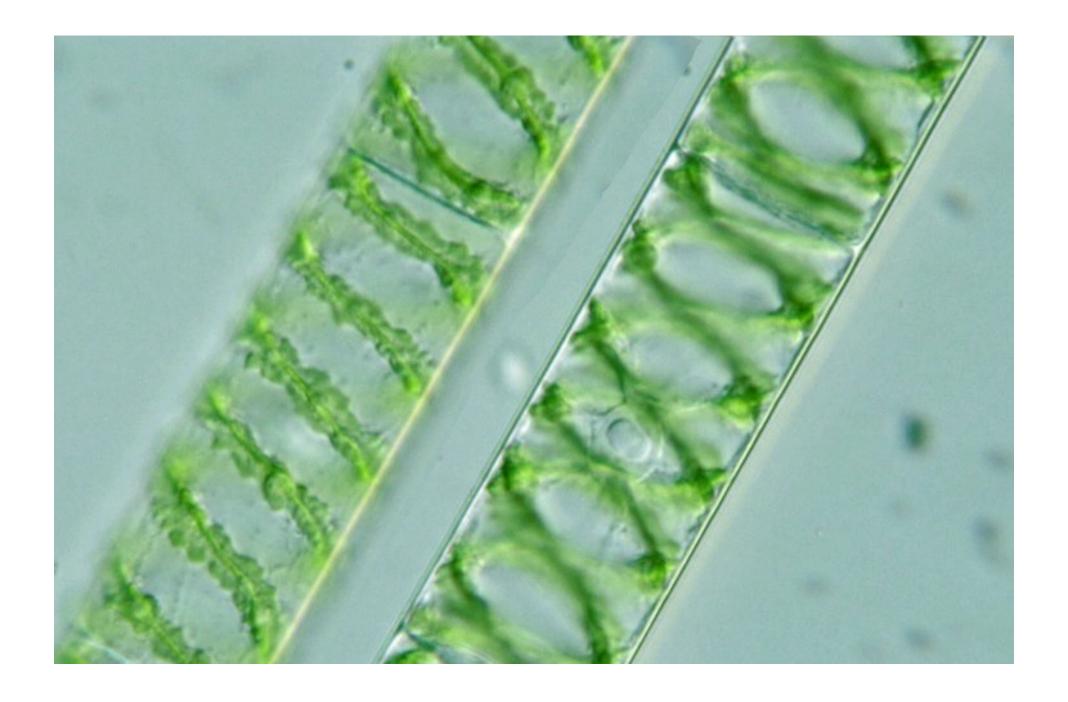


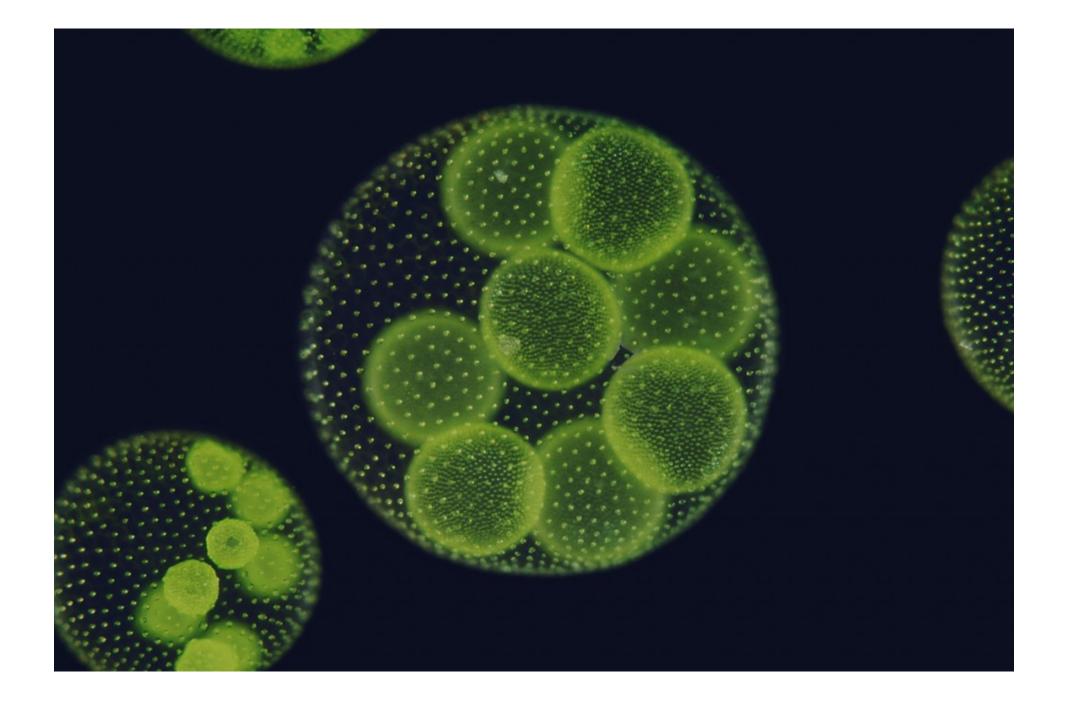






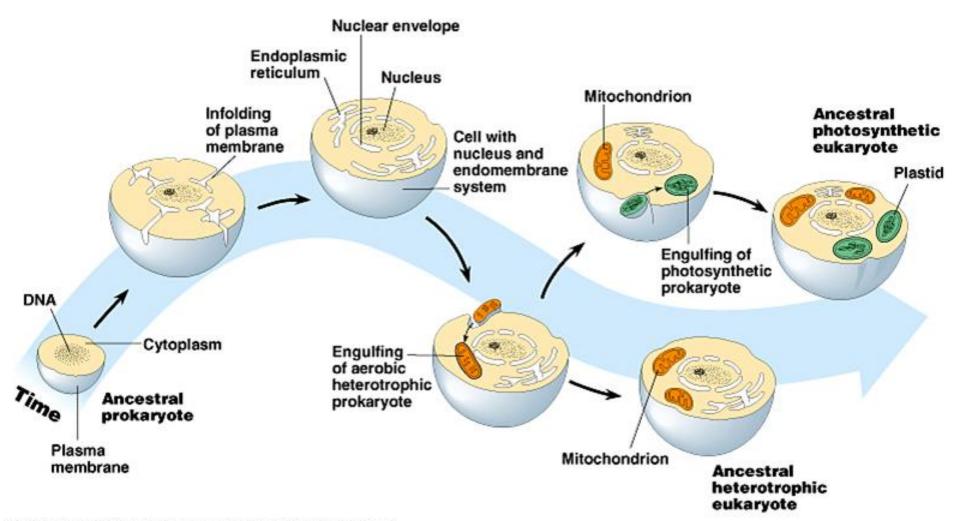




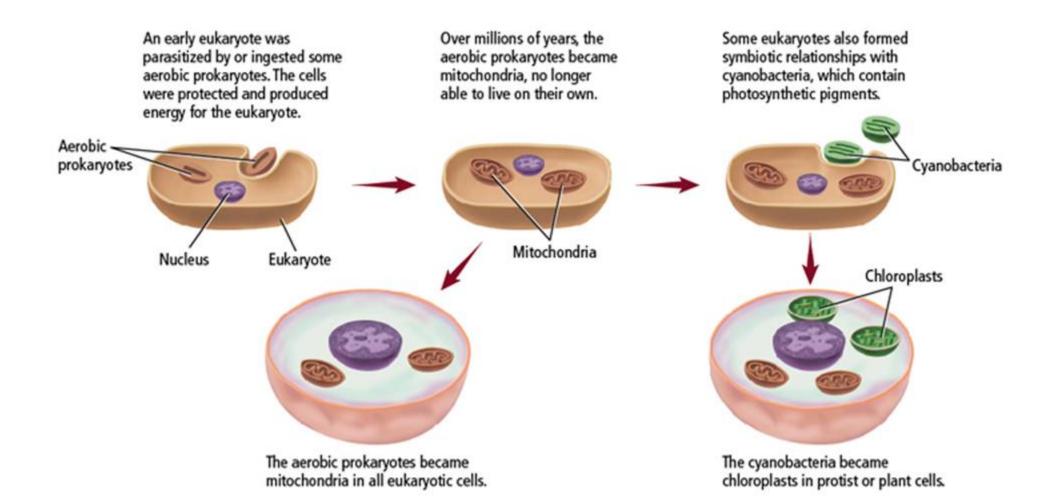


How did Eukaryotic Cells Arise?

Endosymbiosis

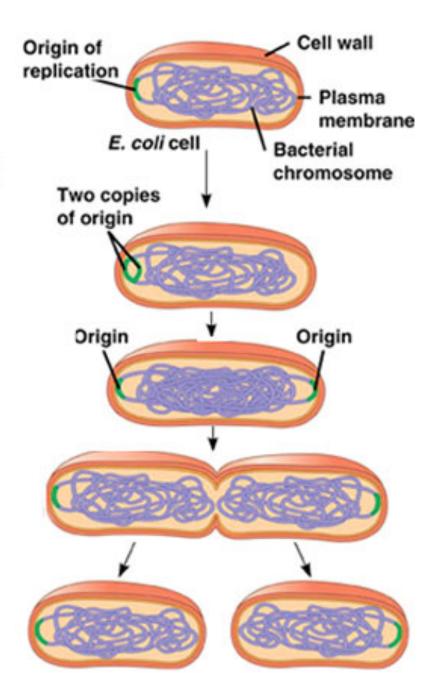


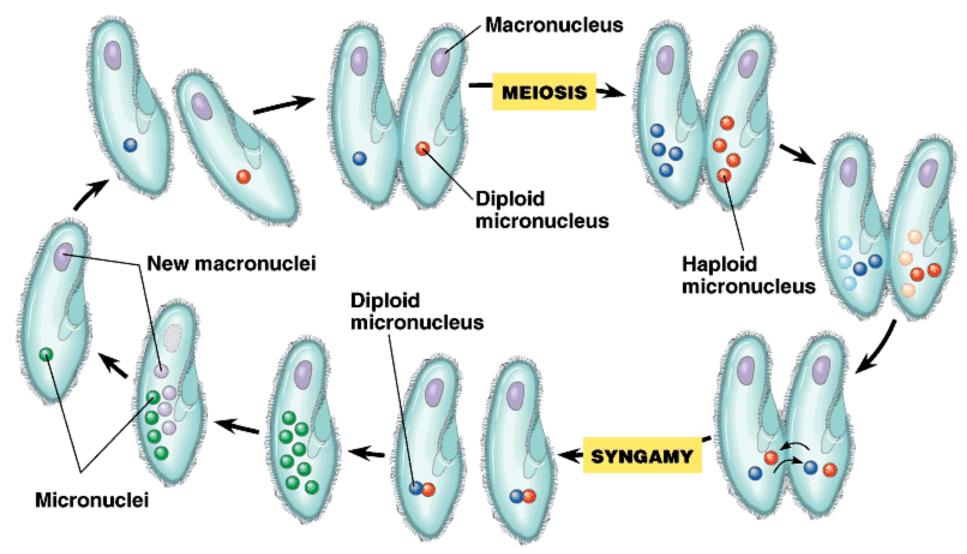
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Binary Fission

- 1 Chromosome replication begins. Soon thereafter, one copy of the origin moves rapidly toward the other end of the cell.
- Replication continues. One copy of the origin is now at each end of the cell.
- Replication finishes. The plasma membrane grows inward, and new cell wall is deposited.
- Two daughter cells result.



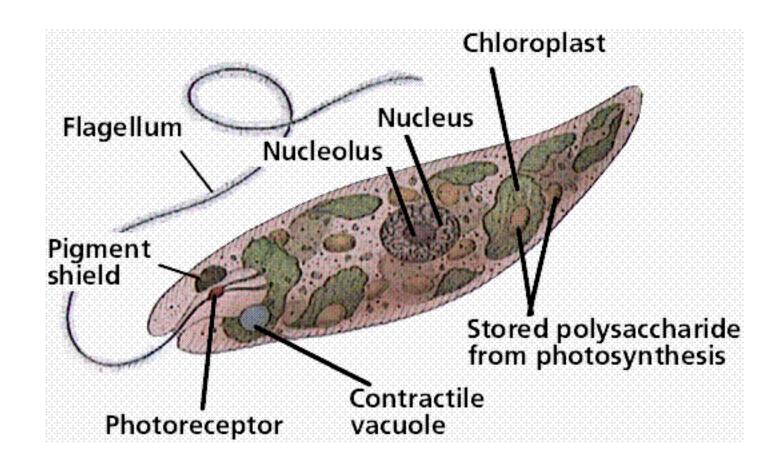


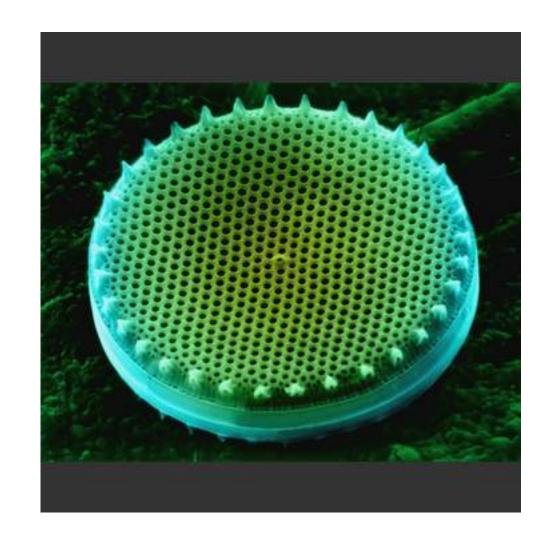
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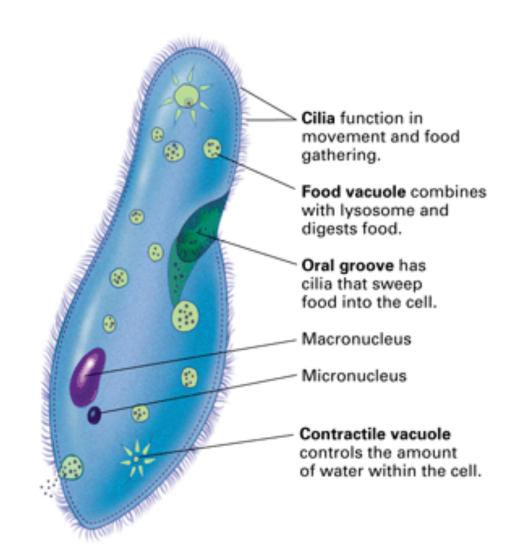


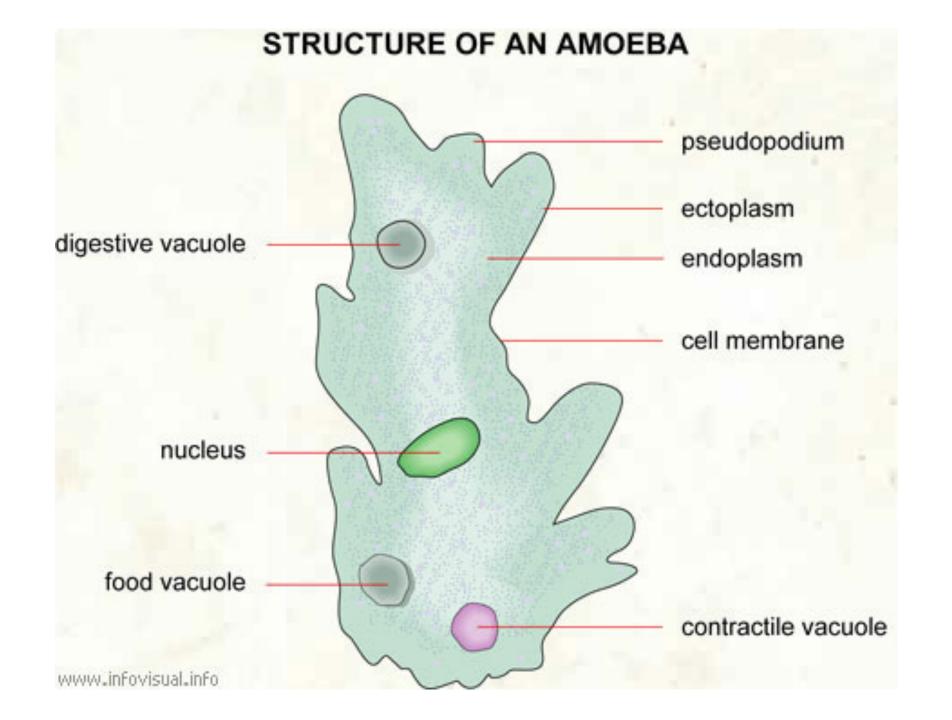


Protist: Euglena









Phylum	Protist Kingdom Some characteristics	l Kingdom Protista Examples
Euglenophyta (euglenoids)	one-celled make or take in food most have one flagellum	Euglena Phacus
Chrysophyta (golden algae)	most are one-celled make own food yellow-brown color	Synedra
Pyrrophyta (dinoflagellates)	one-celled take in food have two flagella	Gonyaulax Peridinium
Sarcodina (sarcodines)	one-celled take in food have pseudopods Ame	oeba Globigerina
Ciliophora (ciliates)	one-celled take in food have cilia	Vorticella Didinium
Mastigophora (flagellates)	one-celled take in food have two or more flagella	Trichomonas
Sporozoa (sporozoans)	one-celled take in food no means of movement	Gregarina
Myxomycetes (slime molds)	many- or one-celled absorb food change form during life cycle	Dictyostelium