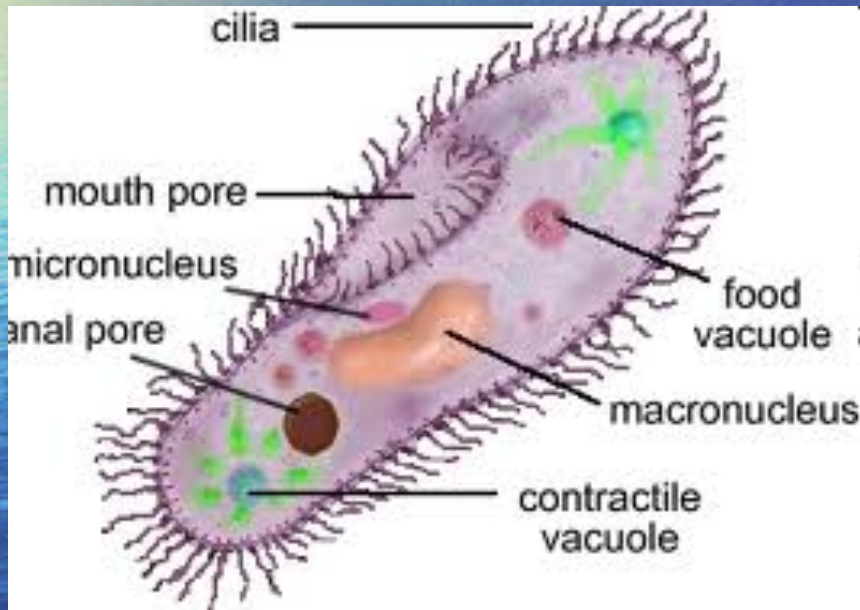


Chapter 18-3: Kingdoms & Domains

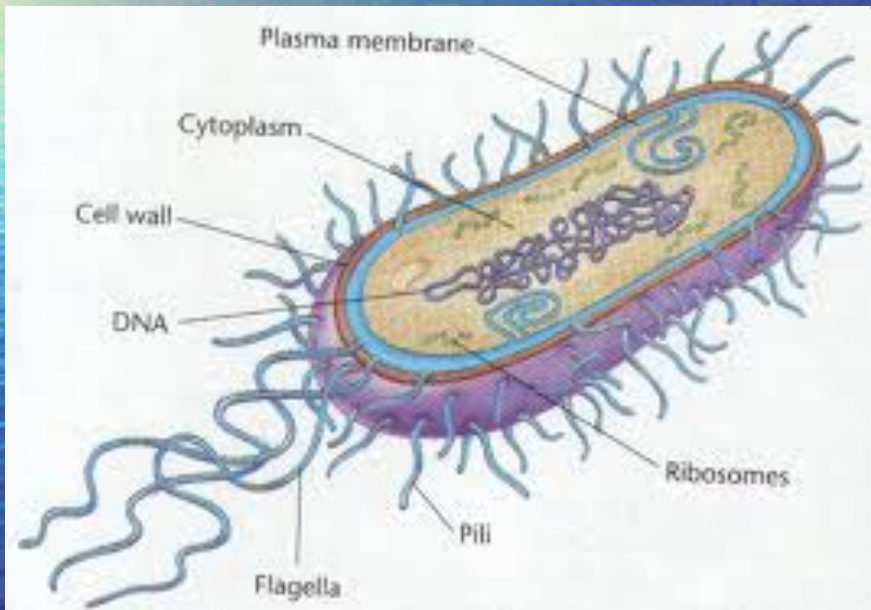
Essential questions:

- What are 6 Kingdoms of life as currently defined?
- What is the 3 domain system of classification?

- The tree of life evolves
 - Originally 2 kingdoms
 - Then Protista



- Then Fungi
- Then Monera
- 1990's: Eubacteria & Archeabacteria
- 6 Kingdoms currently



- The 3 Domain system

- Based on molecular evidence of how long organisms have been evolving independently

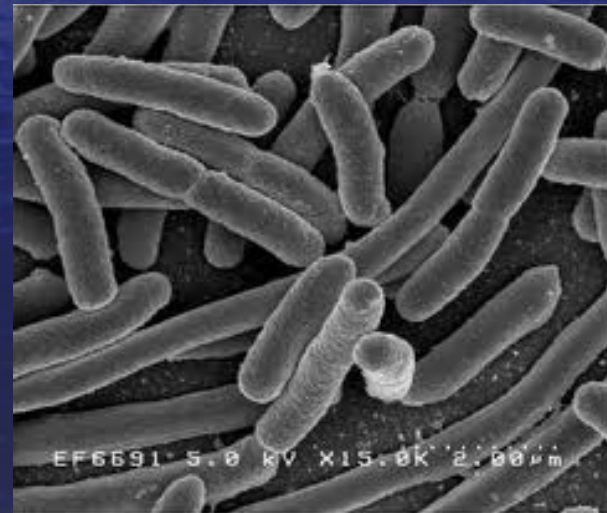
- Domain Bacteria – unicellular, prokaryotic

- Domain Archaea

- also unicellular & prokaryotic

- Live in extreme environments – volcanic hot springs, etc.

- Many will die in presence of oxygen



- Domain Eukarya – all organisms with nucleus
 - Protista – problematic b/c so much variety
 - Fungi – heterotrophs, feed on decaying plants/animals
 - Plantae – multicellular, autotrophs
 - Animalia – multicellular, heterotrophs

Cladogram of Six Kingdoms and Three Domains

