

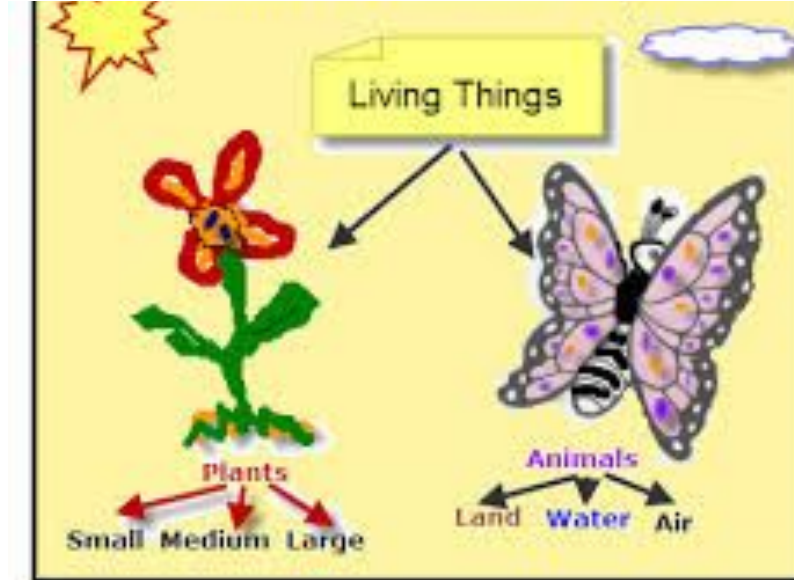
Kingdoms of Life



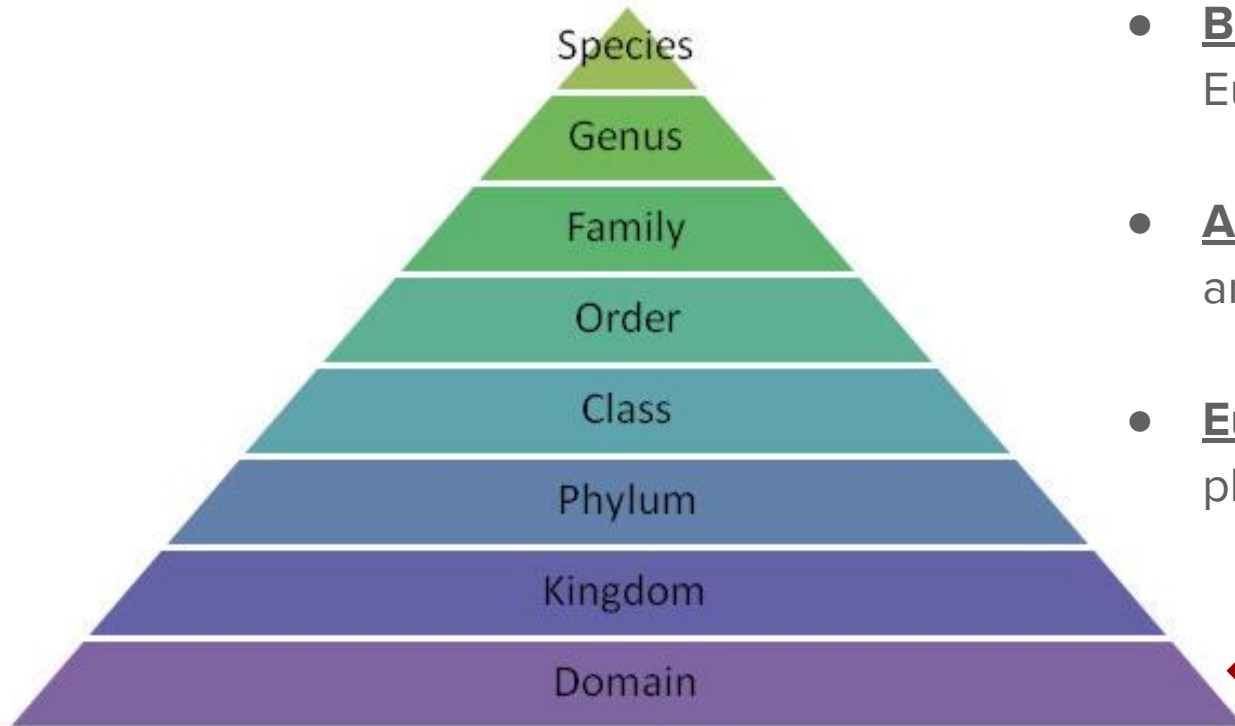
Chapter 18



Carolus Linnaeus' original classification system only included two Kingdoms...
Animalia & Plantae



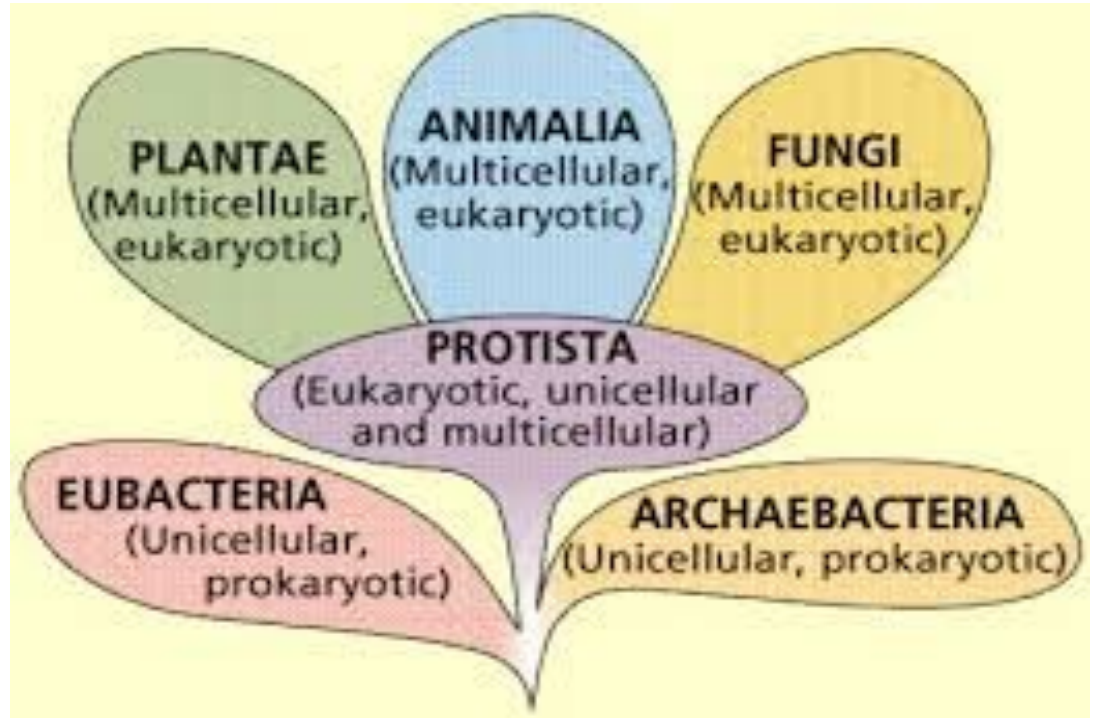
The 3 Domain System



- **Bacteria**: kingdom Eubacteria
- **Archaea**: kingdom archaeobacteria
- **Eukarya**: protists, fungi, plants, and animals

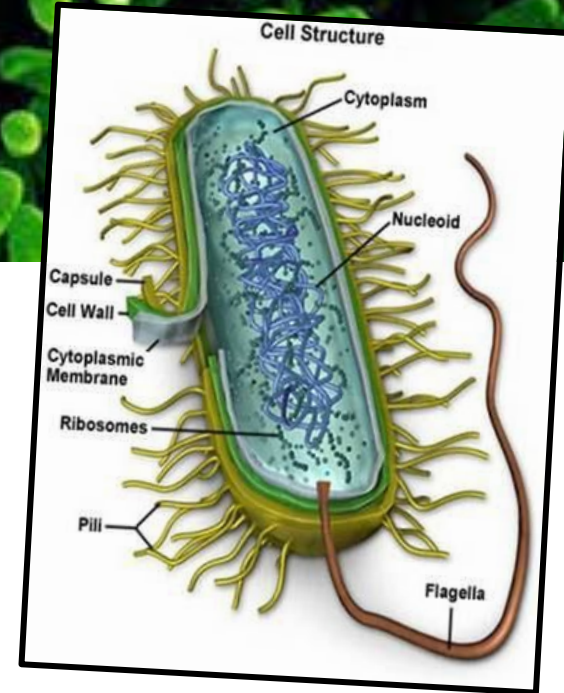
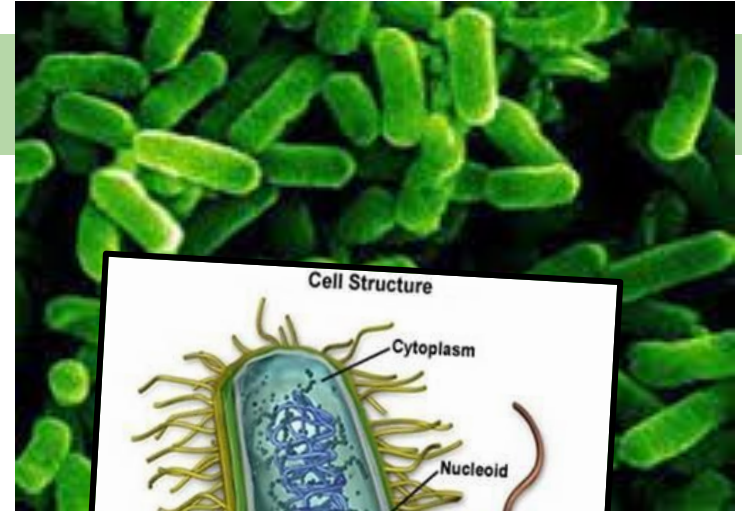
There are SIX Kingdoms of Life

- Eubacteria
- Archaeobacteria
- Protista
- Fungi
- Plantae
- Animalia



Domain Bacteria

- Unicellular & prokaryotic
- Cells have thick rigid walls, which **contain** peptidoglycan
- Live in diverse environments



Domain Archaea

- Unicellular / prokaryotic
- Have cells walls which **lack** peptidoglycan
- Live in extreme environments

<https://www.youtube.com/watch?v=0W-ultr5M4g>

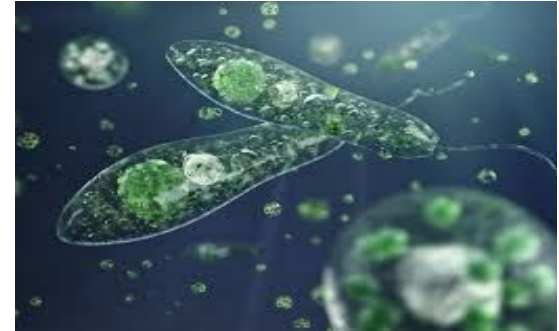


Domain Eukarya

- All organisms that have a nucleus or made of eukaryotic cells

- **Protista:**

- eukaryotic organisms that cannot be classified as animals



- **Fungi:**

- organisms that feed on dead or decaying organic matter



- **Plantae:**

- multicellular organisms
- mostly photosynthetic
- Sessile: cannot move around



- **Animalia:**

- multicellular organisms
- move around for some or all of their life
- Heterotrophic

