











• Eucarya

## Who are the Microbes?

- Protists (Algae, Fungi, Protozoa) 100-300 micrometers (µm)
- Bacteria
  - Diverse metabolism
    - 1-5 micrometers (µm)
    - A micrometer is 1/1000 of a millimeter
    - 1000 micrometers would span the head of a pin

Typical eukaryotic cell

(300 micrometers)

- Archaea
  - Life's extremists
    - 1-5 micrometers (µm)
- Viruses
  - Abundant
    - 0.07 micrometers
      - Or 70 nanometers
      - 1 nanometer is 1/1000 of micrometer

On the head of a pin: ~200 bacteria and archaea ~2,000,000 virus particles











