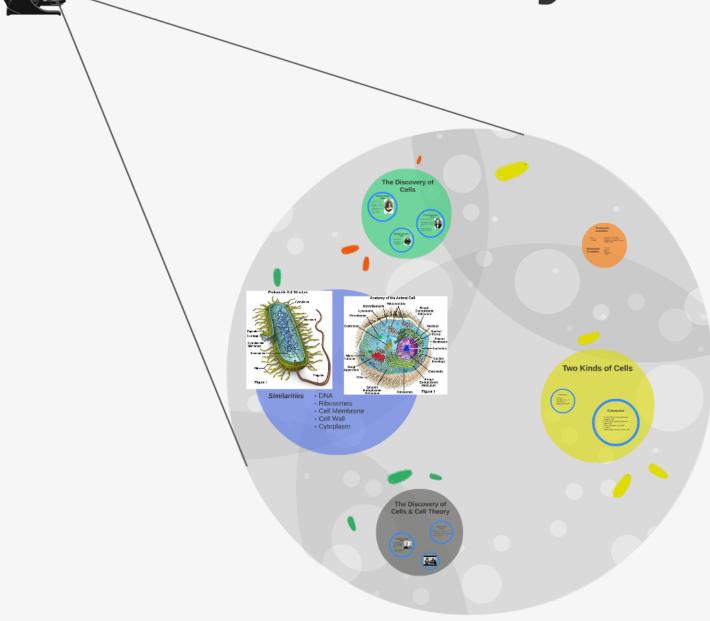
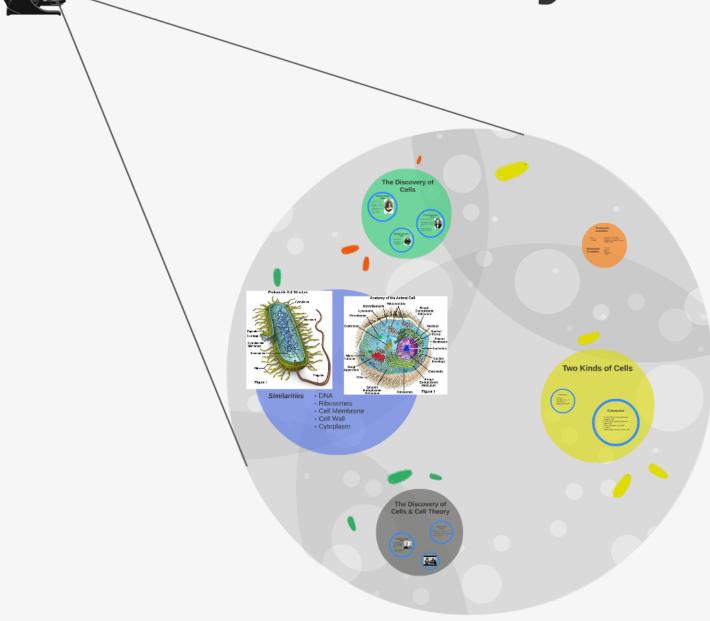
The Diversity of Cells

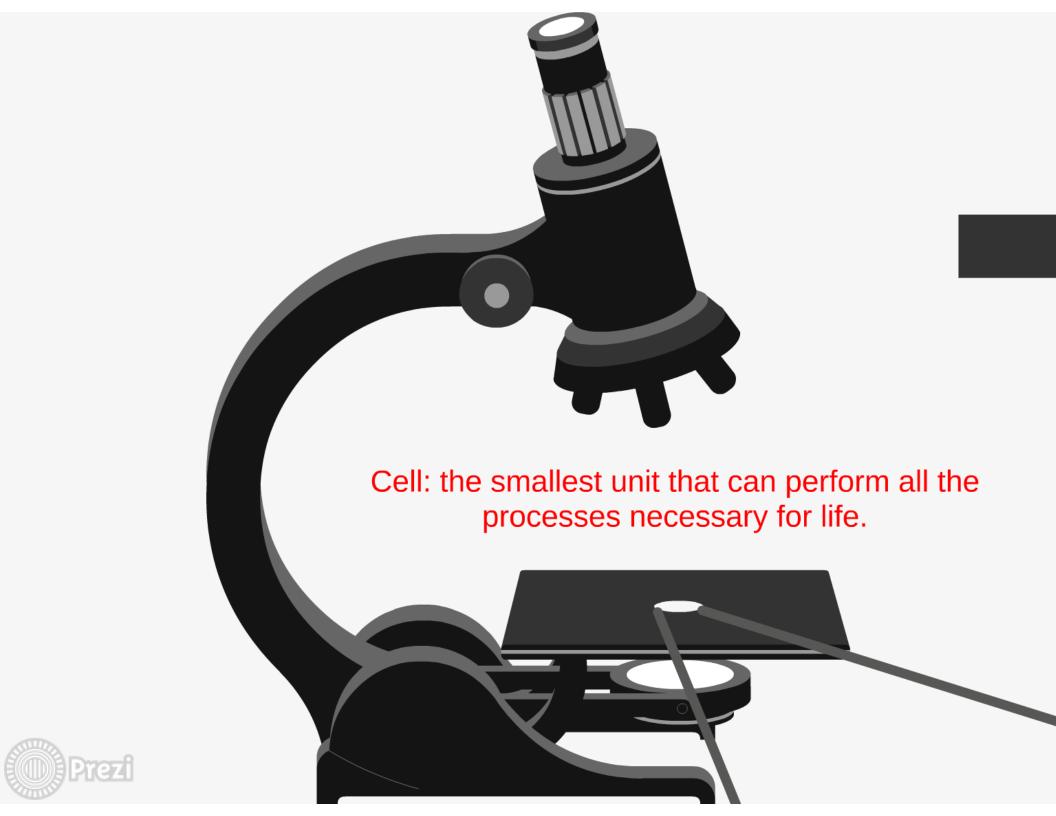




The Diversity of Cells







The Discovery of Cells

Robert Hooke 1665

- 1st person to describe cells
- Looked at cork through a microscope
- He saw tiny boxes which he called cells
- Cells means "little rooms" in Latin



Matthias Schleiden 1838

- · Studied plants
- Concluded that all plant parts are made of cells



Theodor Schwann 1839

- Studied animals
- Concluded all animal tissues were made of cells
- Wrote the first two parts of cell theory





Robert Hooke 1665

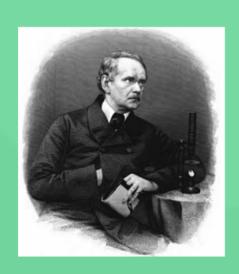
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The Discovery of Cells & Cell Theory

Rudolf Virchow 1858

- Discovered that cells could only come from other cells

Added the third part of cell theory

ABC's of Cell Theory

- 1. All organisms are made of cells
- 2. Te cell is the Basic unit of all living things
- 3. All cells Come from existing cells





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 Added the third part of cell theory



ABC's of Cell Theory

- 1. All organisms are made of cells
- 2. Te cell is the **B**asic unit of all living things
- 3. All cells Come from existing cells







Two Kinds of Cells

Prokaryotes

- No membrane bound organelles
 DNA is long & circular
 Use flagellum to move

- Most prokaryotes are unicellular

Eukaryotes

- Nucleus (DNA is housed here)
- Largest cells
- · Contains all membrane bound organelles
- · Most eukaryotes are multicellular
- Multi-cellular means "many cells"



Prokaryotes

- No Nucleus
- Smallest Cells
- No membrane bound organelles
- DNA is long & circular
- Use flagellum to move
- Most prokaryotes are unicellular
- · Unicellular means one cell



Eukaryotes

- Nucleus (DNA is housed here)
- Largest cells
- Contains all membrane bound organelles
- Most eukaryotes are multicellular
- Multi-cellular means "many cells"



Prokaryotic Examples:

Types:

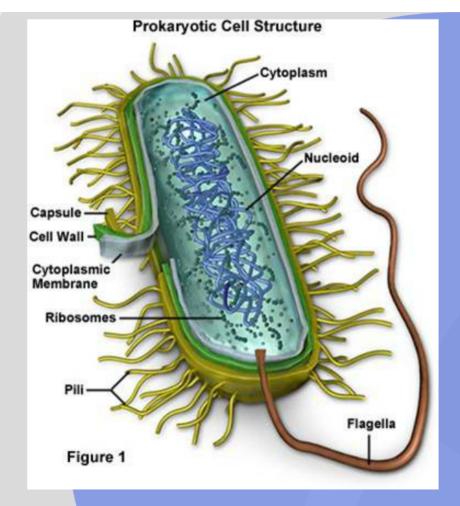
- Bacteria
- Archaea

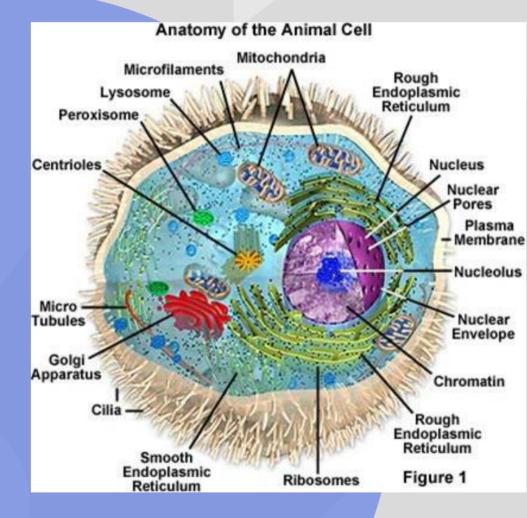
- Bacteria in your mouth
- · Bacteria living in the soil
- · Bacteria in your digestive system
- Extremophiles

Eukaryotic Examples:

- Humans
- Animals
- Plants
- Mushrooms
- Yeasts







Similarities

- DNA
- Ribosomes
- Cell Membrane
- Cell Wall
- Cytoplasm



The Diversity of Cells

