

<u>Cell</u>

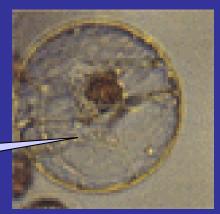
A cell is the smallest unit that is capable of performing life functions.

Examples of Cells

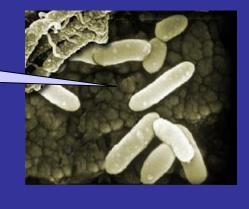


Amoeba Proteus

Plant Stem

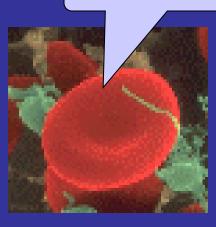


Bacteria



Nerve Cell

Red Blood Cell



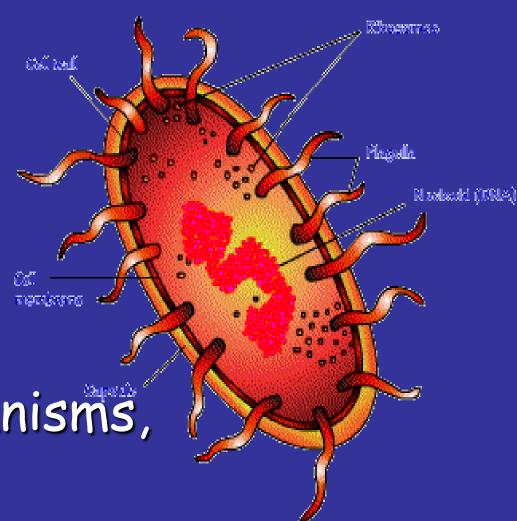
Review: Two Types of Cells

• Prokaryotic = without a nucleus

• <u>Eukaryotic</u> = with a nucleus

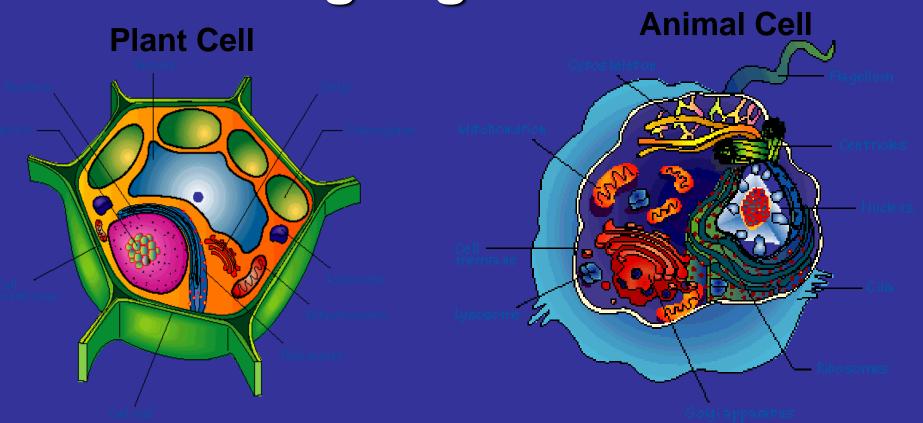
Prokaryotic

- Do not have structures surrounded by membranes
- Few internal structures
- · One-celled organisms,
- · ex. Bacteria

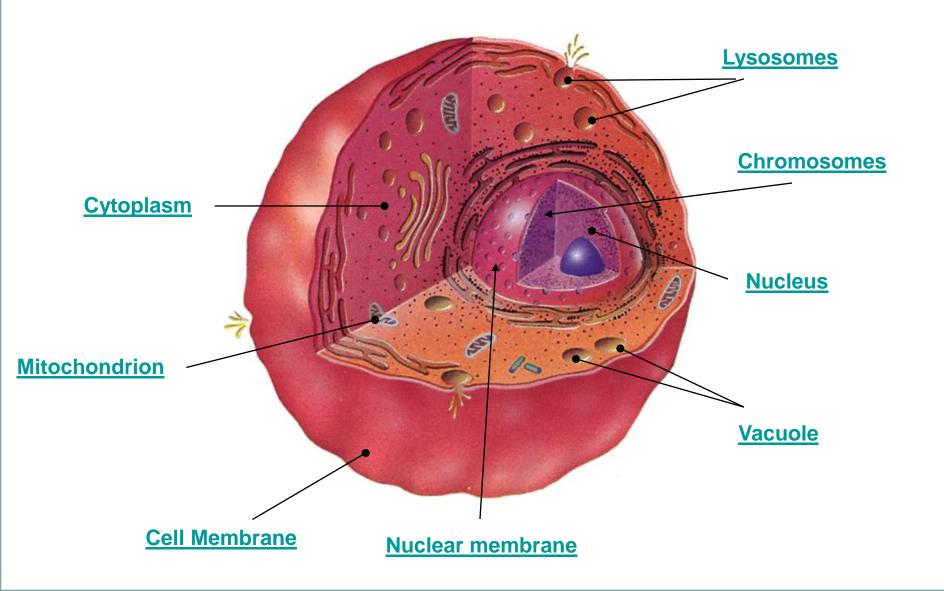


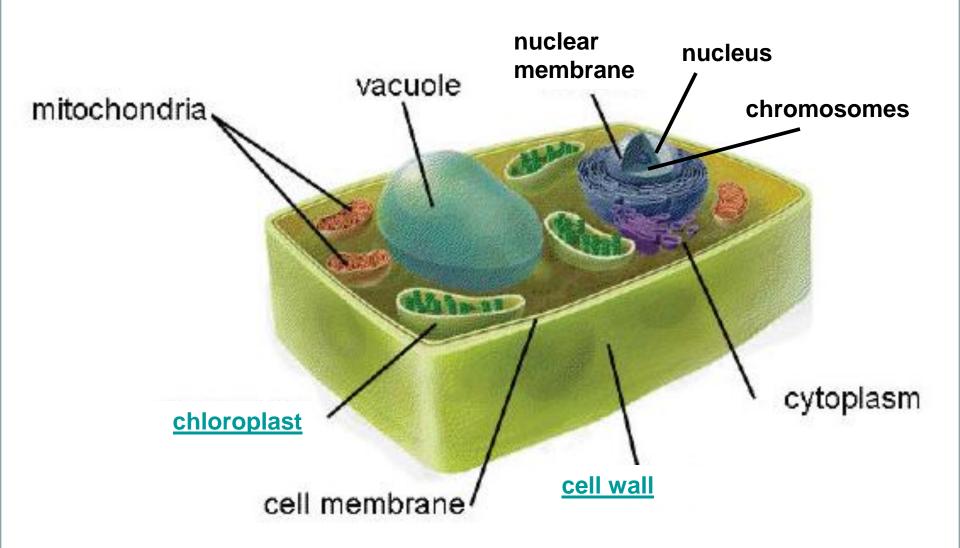
Eukaryotic

- Contain <u>organelles</u> surrounded by membranes
- Most living organisms



Animal Cell

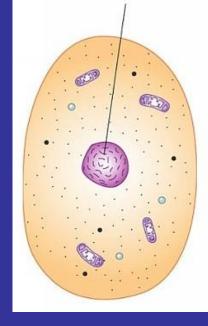




Plant Cell

Nucleus

- -cell's control center
- -directs the cell's activities
- -"brain" of the cell

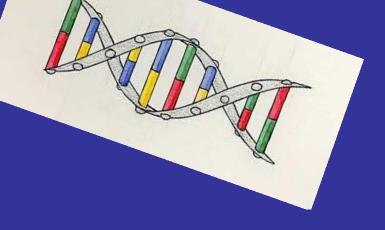






Chromosomes

- -located in the nucleus
- -contain genetic information for life of cell (DNA)

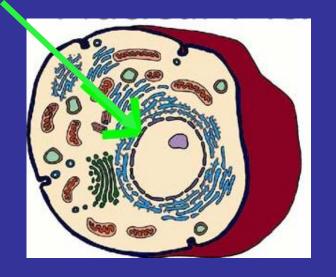






Nuclear Membrane

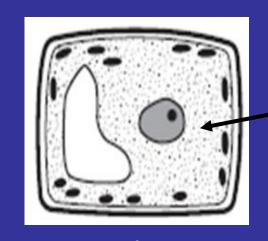
- surround the nucleus
- separates it from the rest of the cell







Cytoplasm



- clear jelly-like material
- contains nutrients for the cell
- supports the organelles





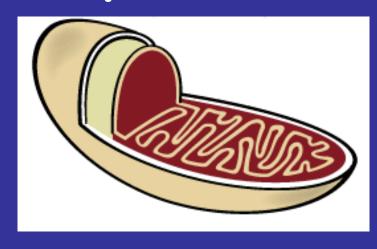
Chloroplast



-captures solar energy from the sun and makes food for plant through photosynthesis -contain chlorophyll (makes plants green)

Mitochondrion

-"power house" for the cell because they produce energy

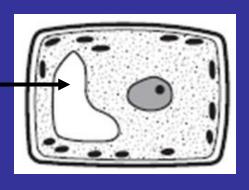




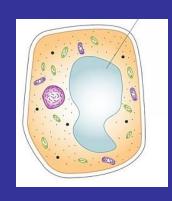




- -small structures that break down nutrients & waste in the cell
- -"clean up crew" for the cell



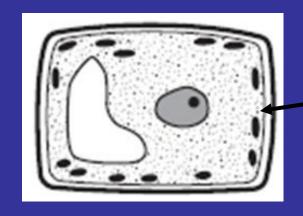
Vacuole



- -round sac that holds water, nutrients and waste
- -"store house" for the cell
- -Plant cells have 1 large
- -Animal cells have many

Cell Membrane

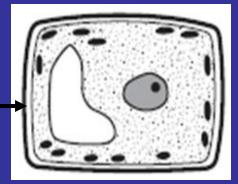
-surround cell & separates
it from the environment
-controls what substances
enter/leave the cell







Cell Wall



- Rigid outer layer of nonliving material
- gives structure, shape & protection to plant cell only
- -materials pass through to the cell

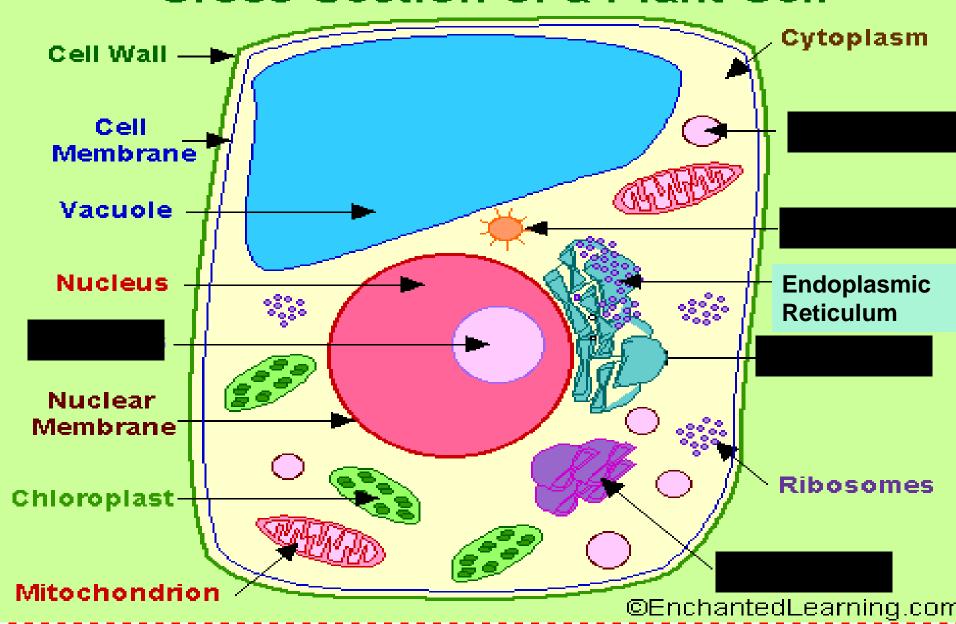
Endoplasmic Reticulum

- carry proteins & nutrients around the cell





Draw. Label and Color Cross-Section of a Plant Cell



Plant Cell

