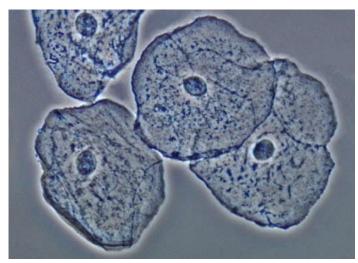
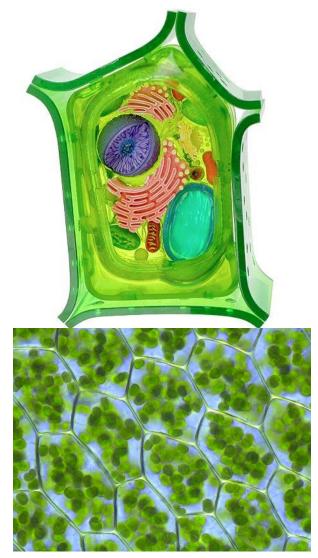
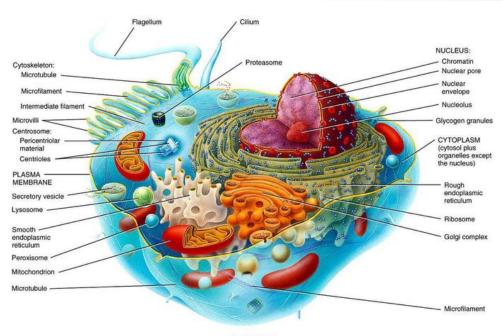
Are animal and plant cells different?





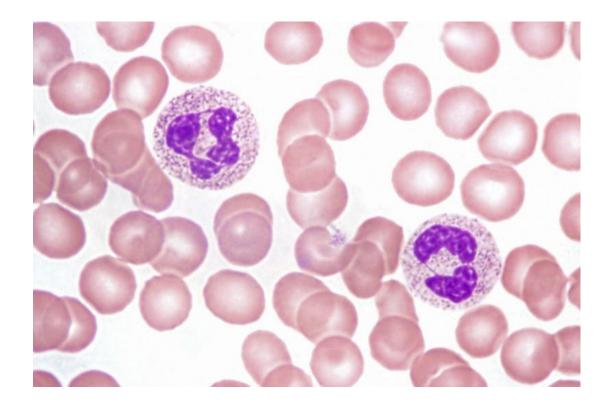


THE CELL AND ITS PARTS



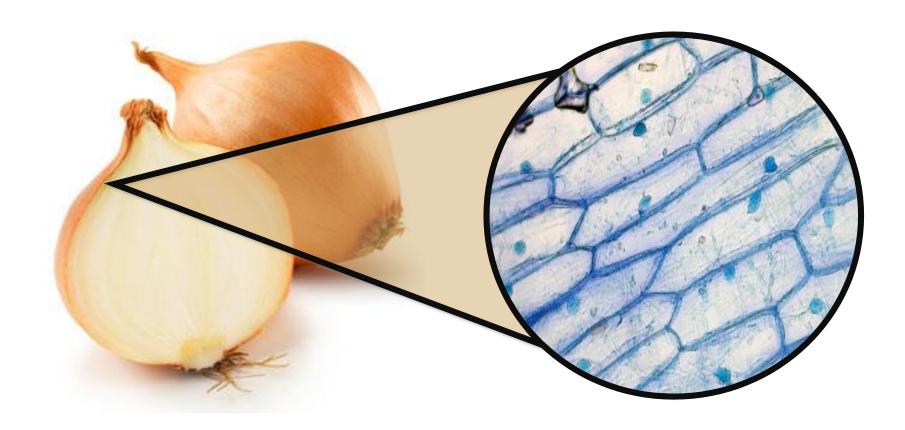
What is a cell?

- Smallest unit of life
- Contains everything you need to be "living"



Cells are microscopic

Too small to see without microscope



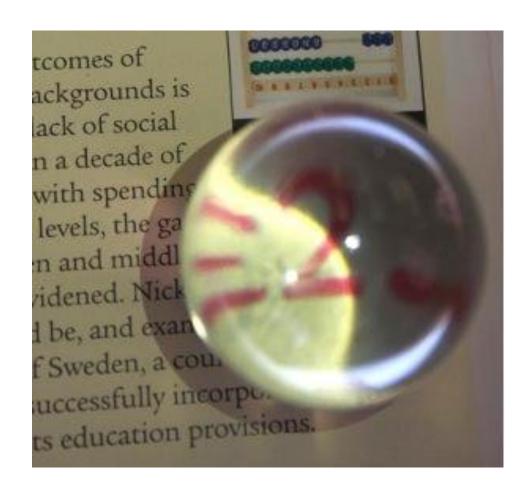
Antonie van Leeuwenhoek

- Father of Microbiology
- Perfected microscope design



Antonie van Leeuwenhoek

- Father of Microbiology
- Perfected microscope design



Cells have organelles

- Cellular "organs"
- Cells are like cities or people → each part has a purpose.

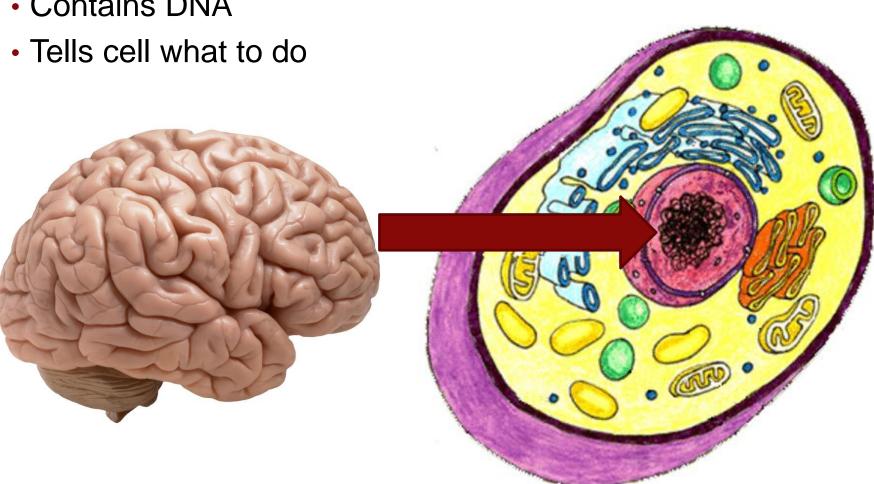


Cell membrane

 Lets nutrients in, lets waste out Protects cell

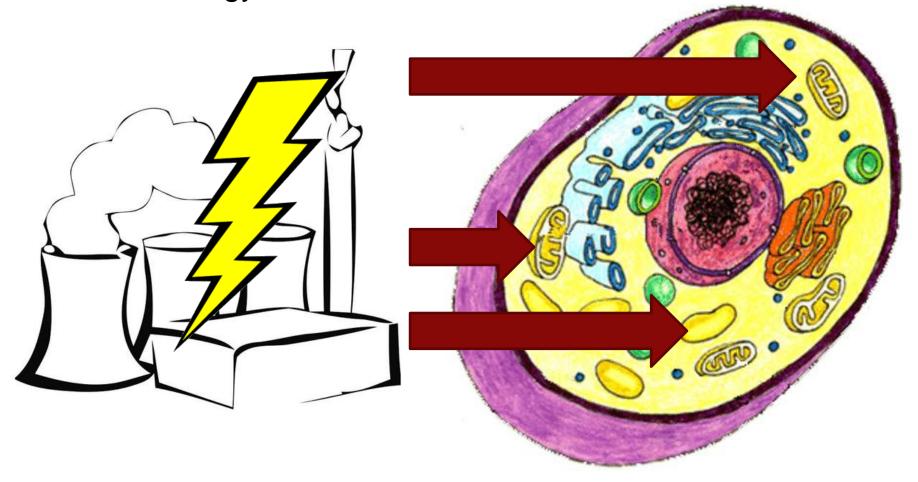
Nucleus

Contains DNA



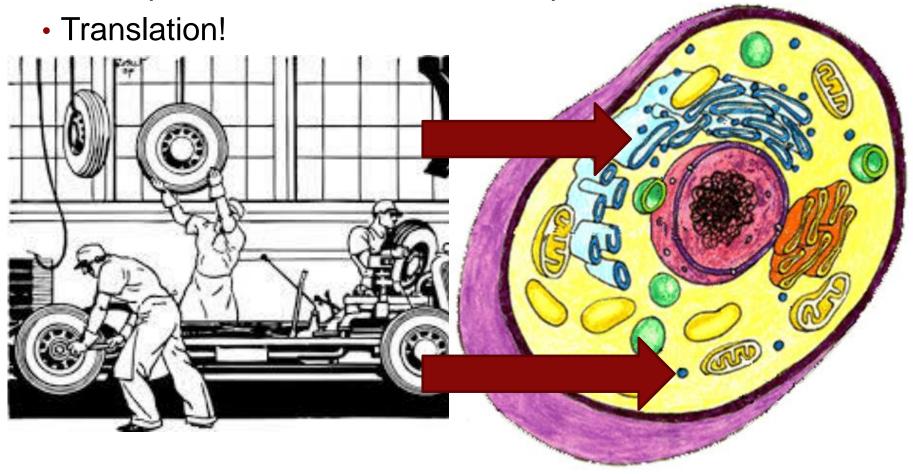
Mitochondria

Makes energy for the cell

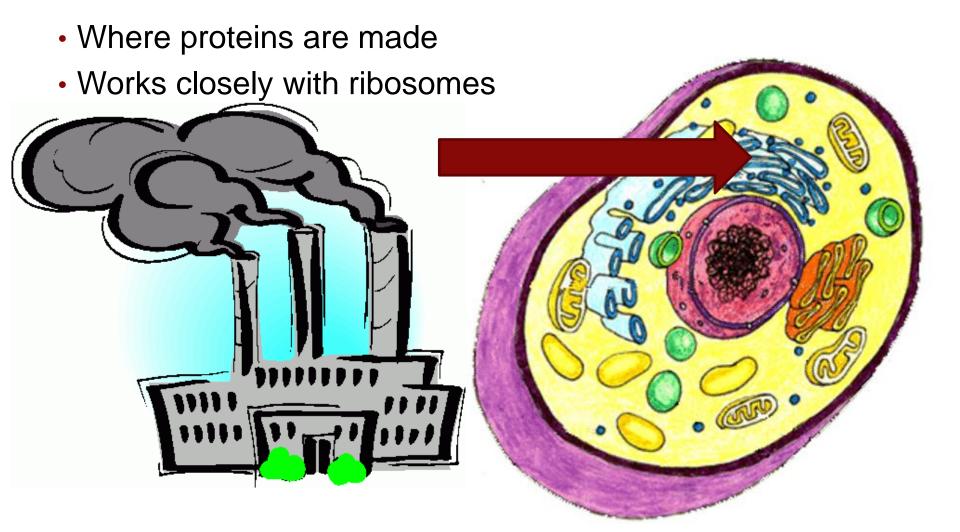


Ribosomes

Make proteins from mRNA transcripts

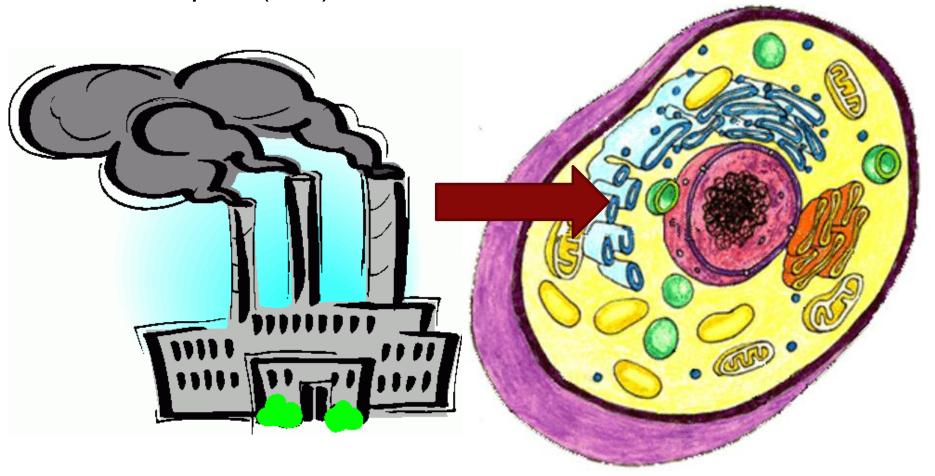


Rough Endoplasmic Reticulum (ER)



Smooth Endoplasmic Reticulum (ER)

Where lipids (fats) are made and broken down



Golgi apparatus

Packages and ships proteins to other parts of the cell



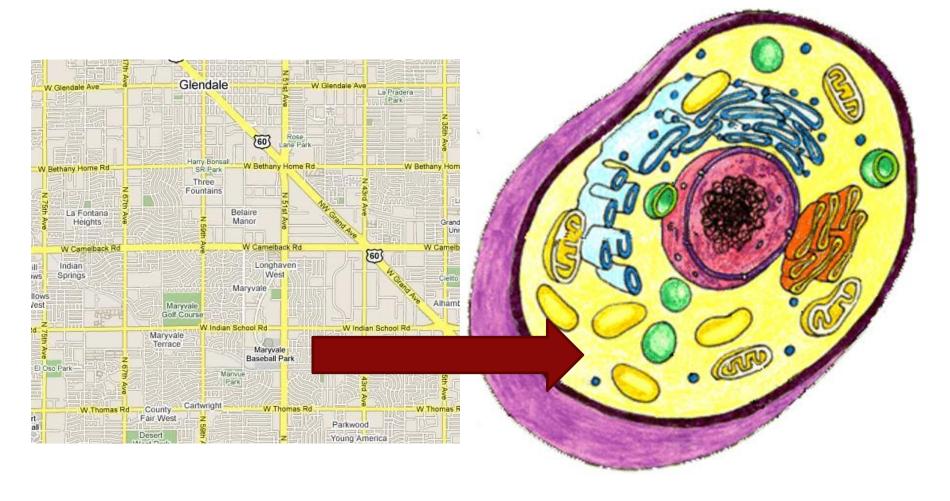
Lysosomes

Stores and breaks down waste



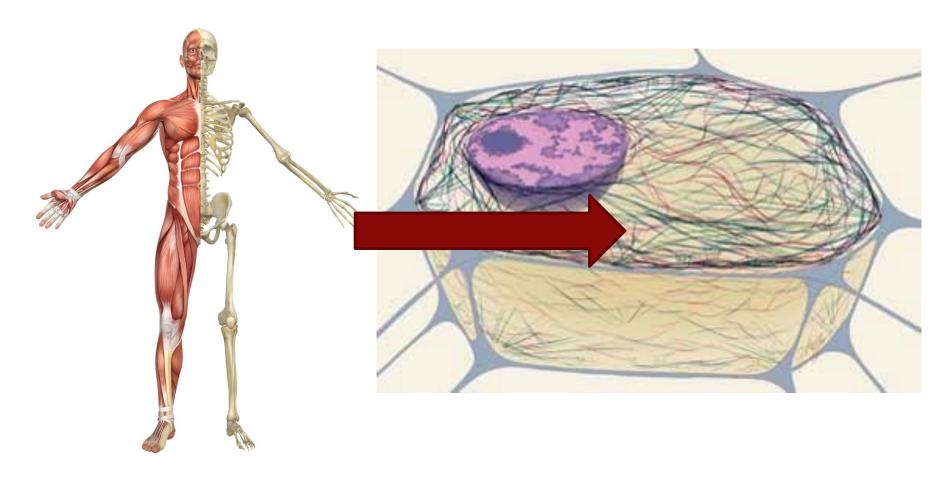
Cytoplasm

Fluid inside the cell



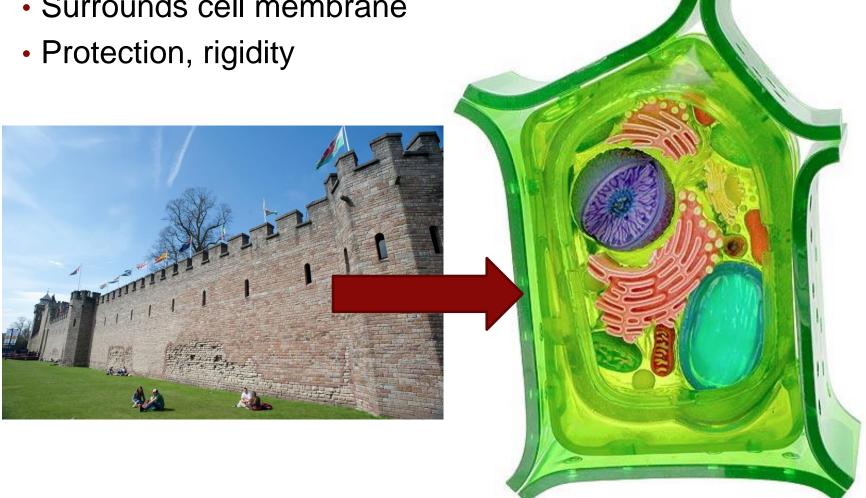
Cytoskeleton

Holds the cell together

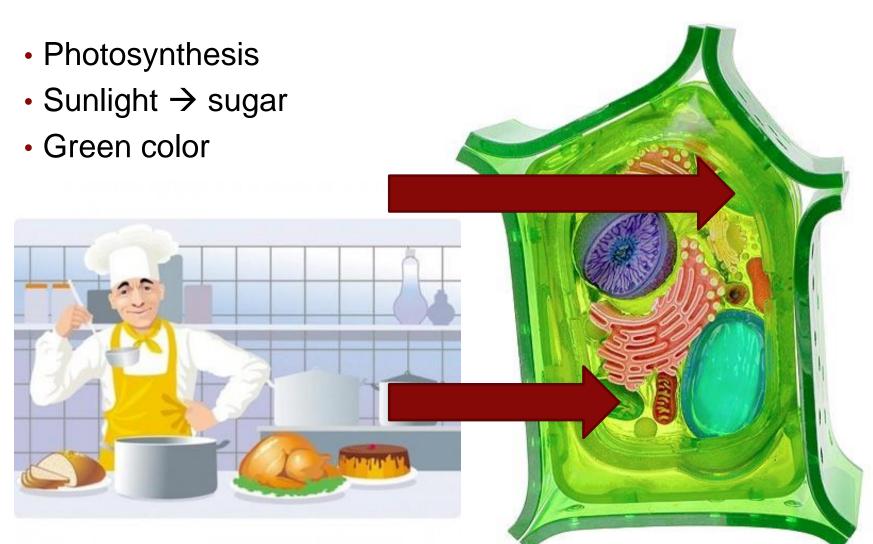


Cell wall

Surrounds cell membrane



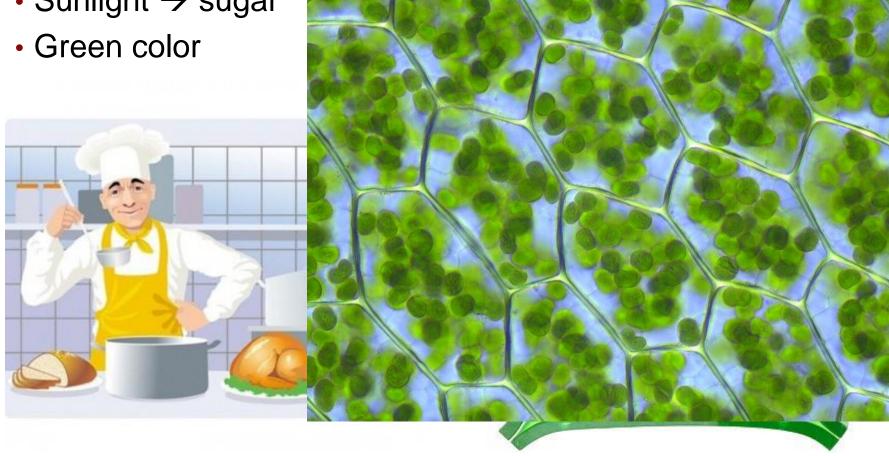
Chloroplasts



Chloroplasts

Photosynthesis

Sunlight → sugar



Vacuole

Stores water, food, waste

