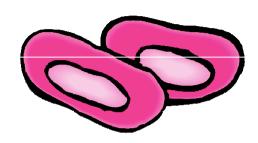
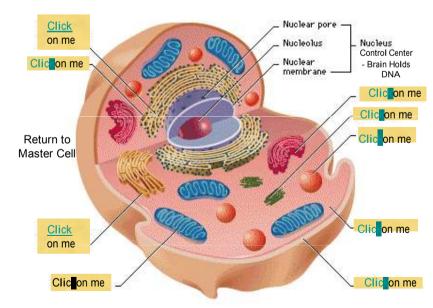
# Parts of the Cell in

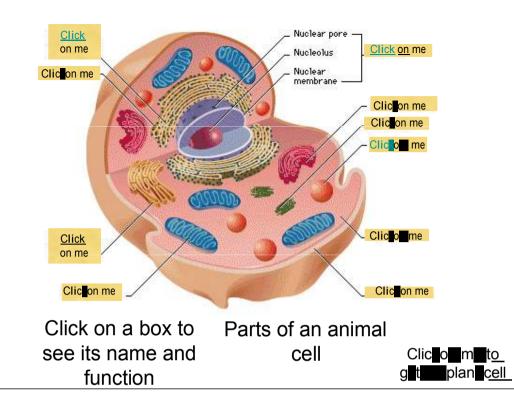
the cell there are many organelles, or little organs. These carry out many of the life's functions like your organs. Please move on to the next slide and click on the boxes to see the names and functions of the cells organelles.

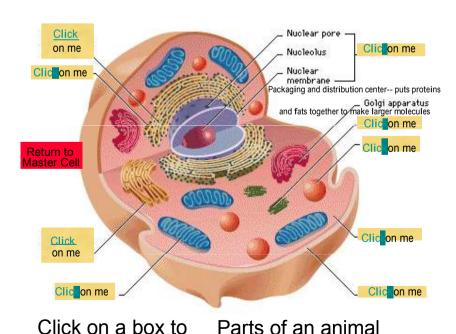


## Red Blood Cell



Click on a box to Parts of an animal see its name and cell function

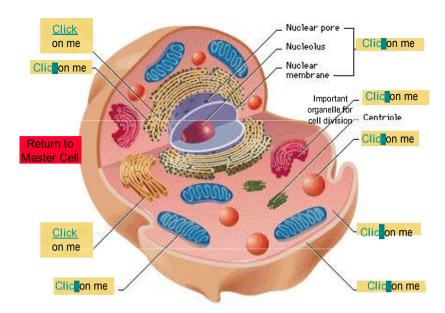




cell

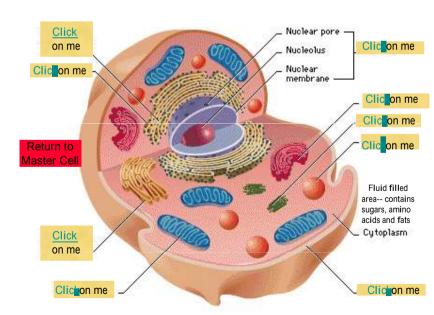
see its name and

function



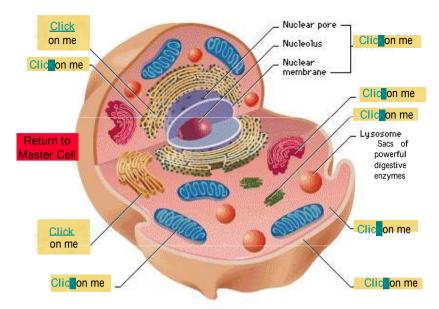
Click on a box to see its name and function

Parts of an animal cell



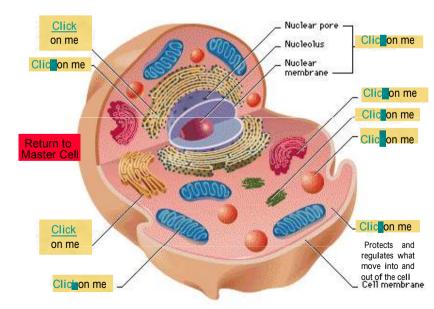
Click on a box to see its name and function

Parts of an animal cell



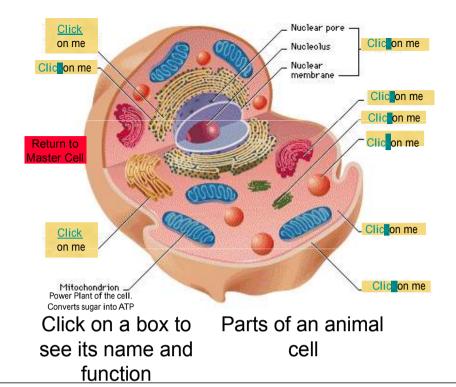
Click on a box to see its name and function

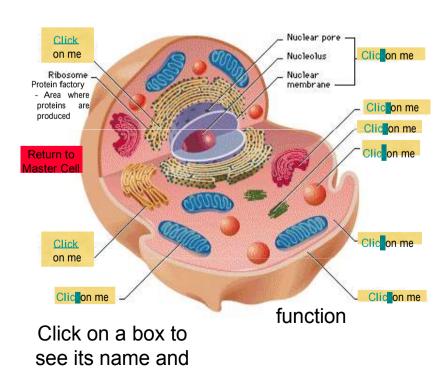
Parts of an animal cell

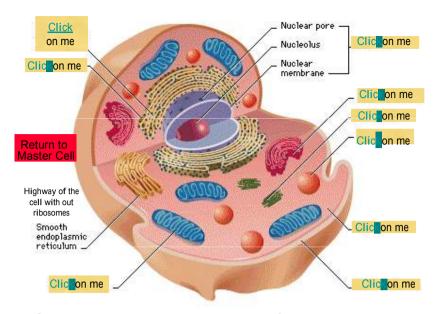


Click on a box to see its name and function

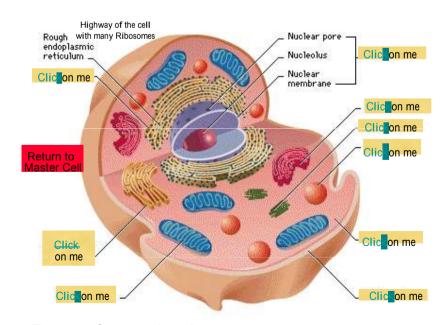
Parts of an animal cell





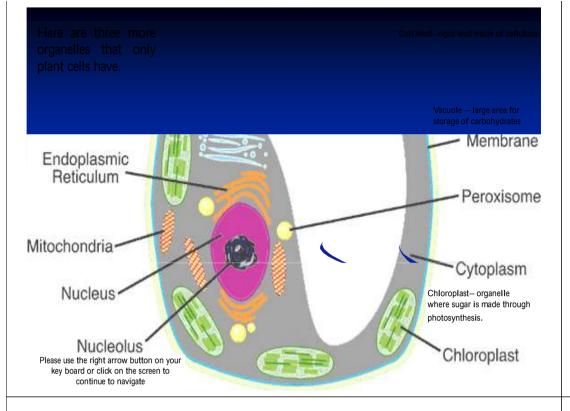


Click on a box to see its name and function Parts of an animal cell

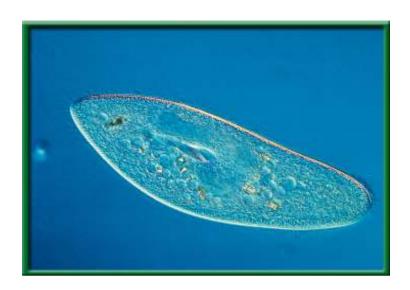


Parts of an animal cell

Click on a box to see its name and function Parts of an anima I cell



### Cell Structures



## **Cell Boundaries**

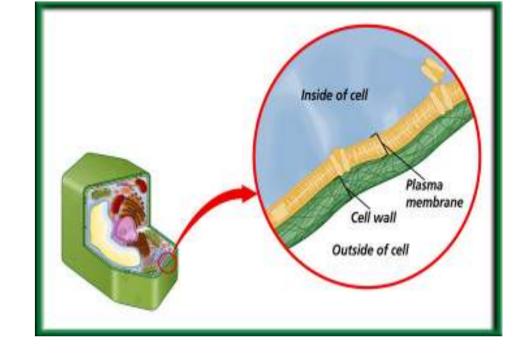
- Plasma Membrane = a flexible boundary that is selectively permeability. It helps to maintain homeostasis.
- plants, bacteria, and fungus have an additional boundary--the cell wall

# Cell Wall

- rigid structure located outside of the plasma membrane
- provides support & protection
- on not flexible
- composed of cellulose (a polysaccharide)
- porous--therefore molecules can still flow in and out of the cell

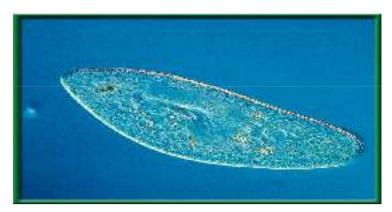
#### **Nucleus and Cell Control**

- Nucleus = control center of a eukaryotic cell
- surrounded by a double membrane (nuclear envelope), perforated with nuclear pores
- contains chromatin-strands of uncondensed DNA. When condensed it forms chromosomes
- holds the directions for making proteins



# Cytoplasm

- Gelatinous fluid between the nucleus and plasma membrane
- suspends cell organelles



## Endoplasmic Reticulum

- interconnected network of folded membranes extending from the nucleus to the plasma membrane
- this added surface area allows for a large amount of ER to do work in small space
- two kinds of Endoplasmic Reticulum

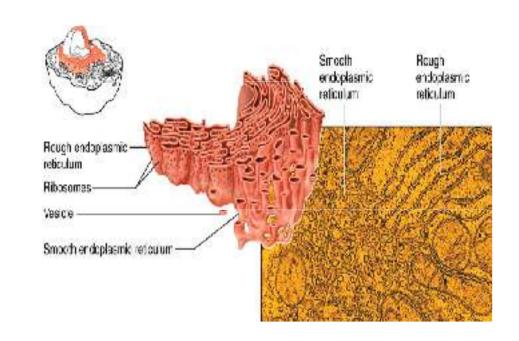
## Smooth Endoplasmic Reticulum

- function = makes/stores lipids
- contains enzymes that detoxify drugs & poisons

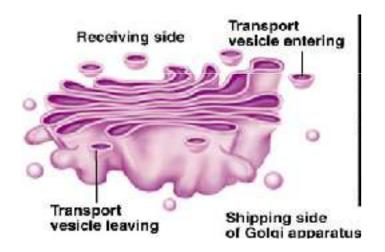
# Golgi Apparatus

- Flattened stacks of membranes
- function = package and process proteins
- proteins are packaged in membrane bound vesicles and then sent to their destinations

#### **Endoplasmic Reticulum**



## Golgi Apparatus



### Vacuoles

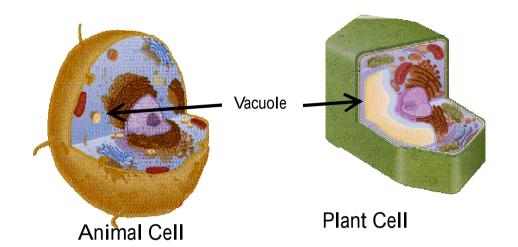
- function = designated area that stores food, enzymes, and other materials
- Large vacules for plant cells. Storage for sugars and carbohydrates made by photosynthsis.

## Lysosomes

- function = <u>digest</u> damaged organelles, cellular byproducts, and invading microbes
- recycling center of the cell

### Vacuoles

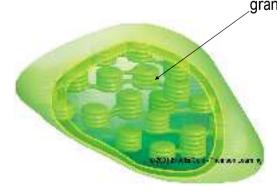
function = designated area that stores food, enzymes, and other materials



## Chloroplast

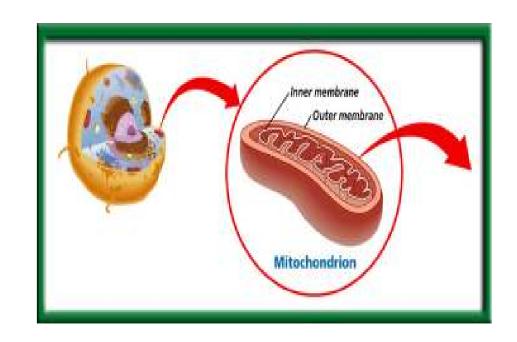
Convert sunlight to usable energy (ATP) through the process of photosynthesis

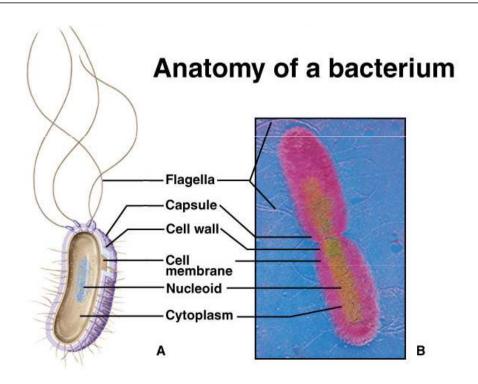
thylakoid = sight of light "harvesting"
grana = thylakoids folded into stacks



## Mitochondria

- break down sugars to form ATP(usable energy) -- The energy of life.
- power house of cells





Thank you for viewing my presentation; a peek into the world of the unseen.

