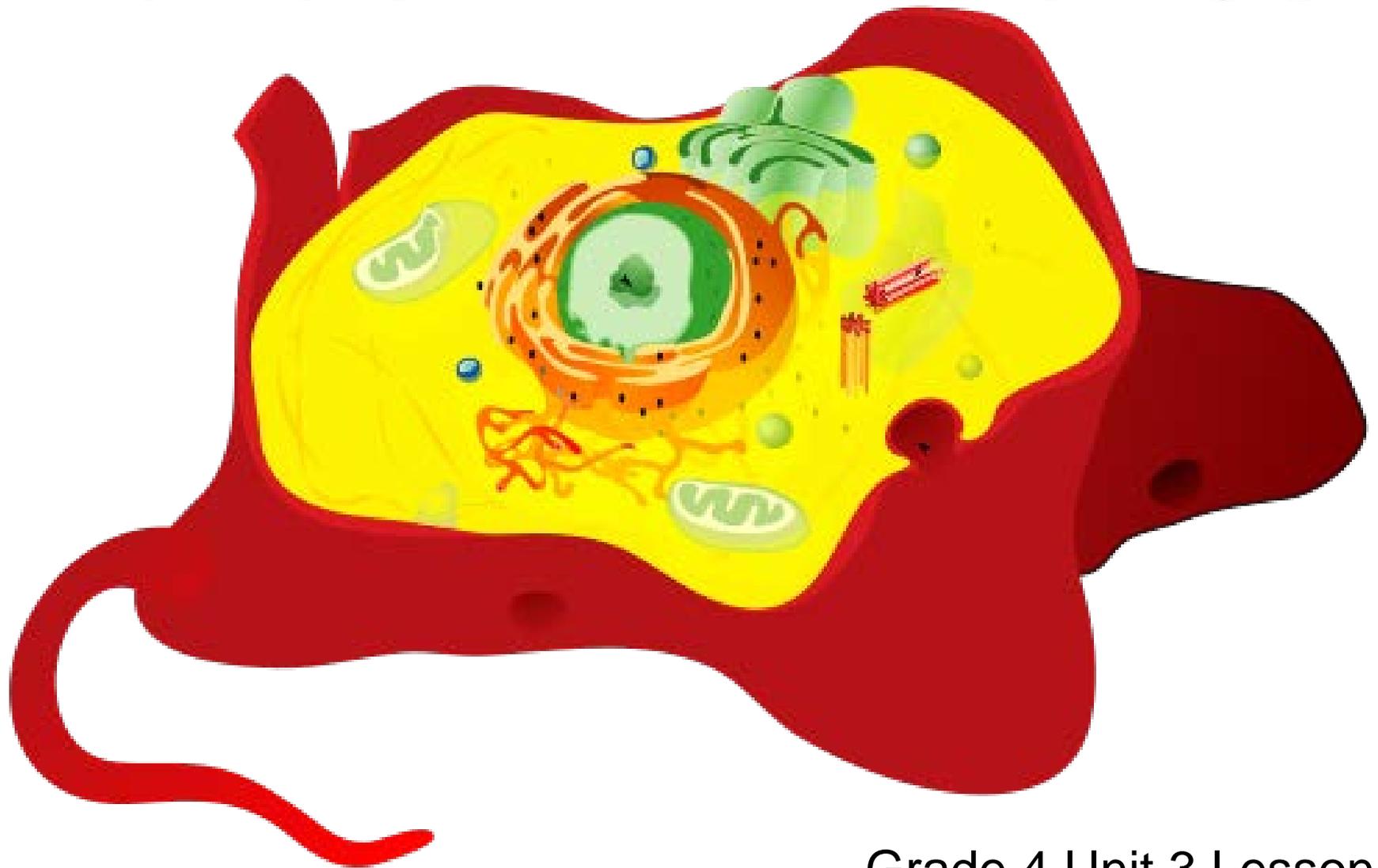
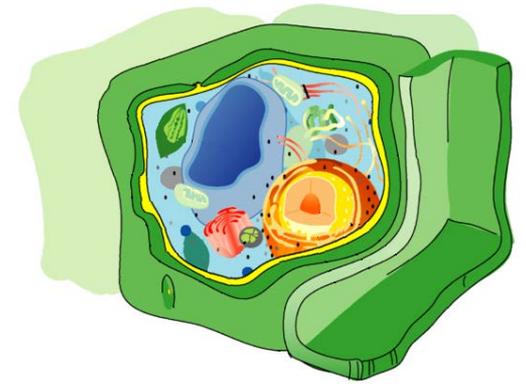




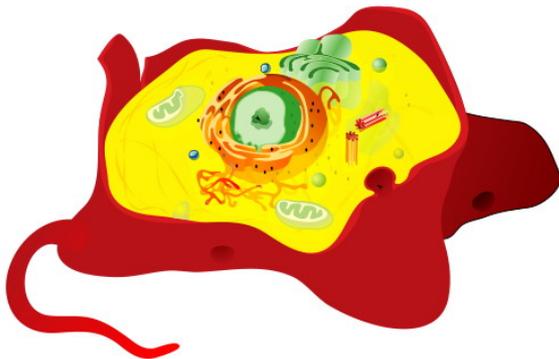
# Plant and Animal Cells



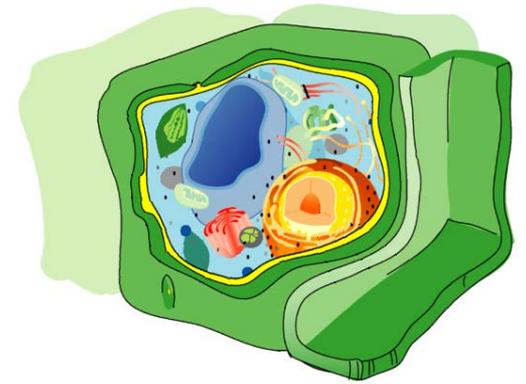
# Topics Covered...



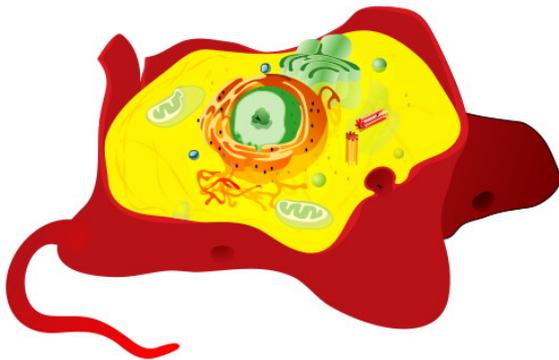
- cell definition
- parts of plant and animal cells
- comparison of plant and animal cells
- different types of animal cells



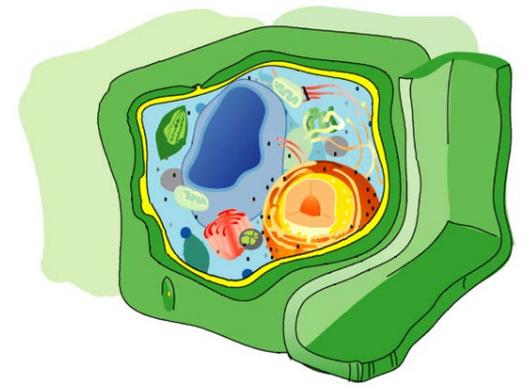
# What is a cell?



definition: a small compartment that holds all of the biological equipment necessary to keep an organism alive



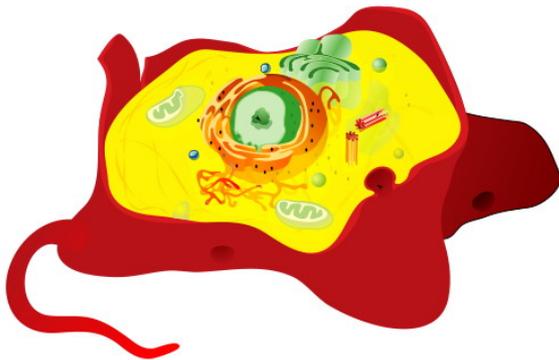
# About cells...



Their main purpose is to organize.

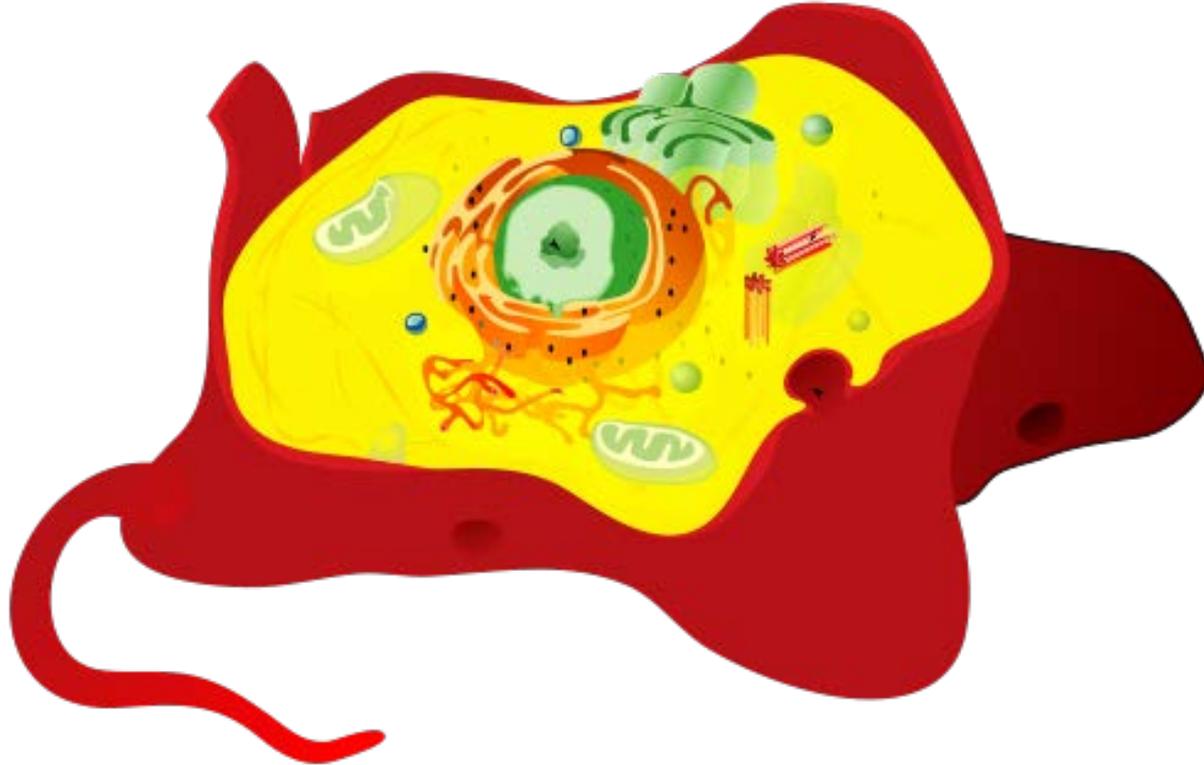
They make up all living things.

Cells are alive!



# Animal Cell

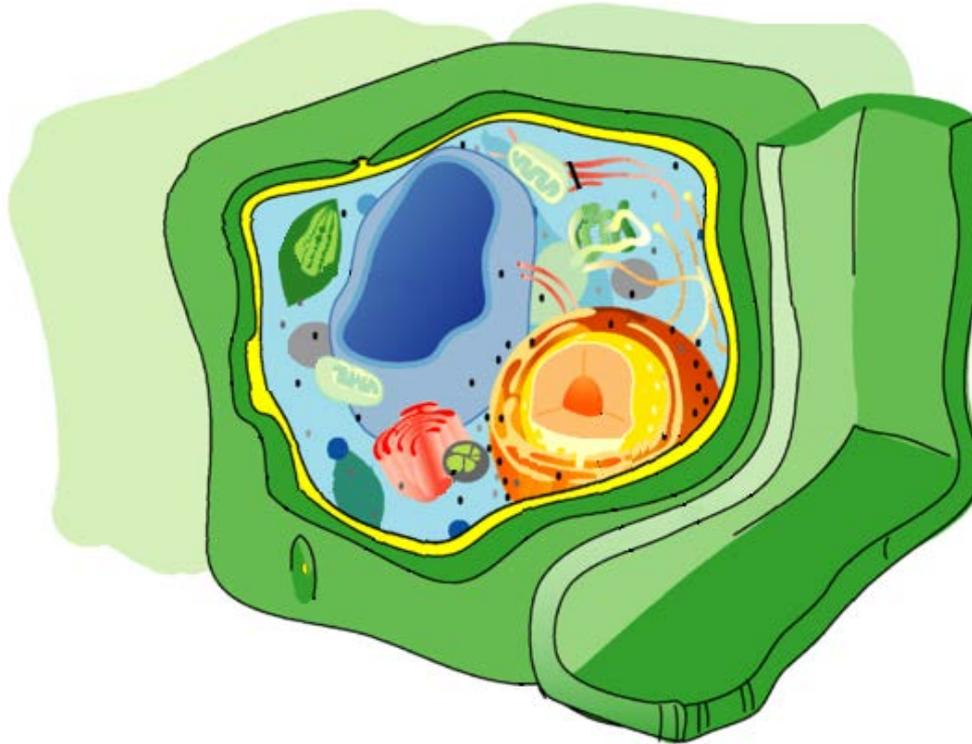
*What is it?*



- a form of eukaryotic cell
- makes up many tissues in animals
- many types (cheek, nerve, muscle, skin)

# Plant Cell

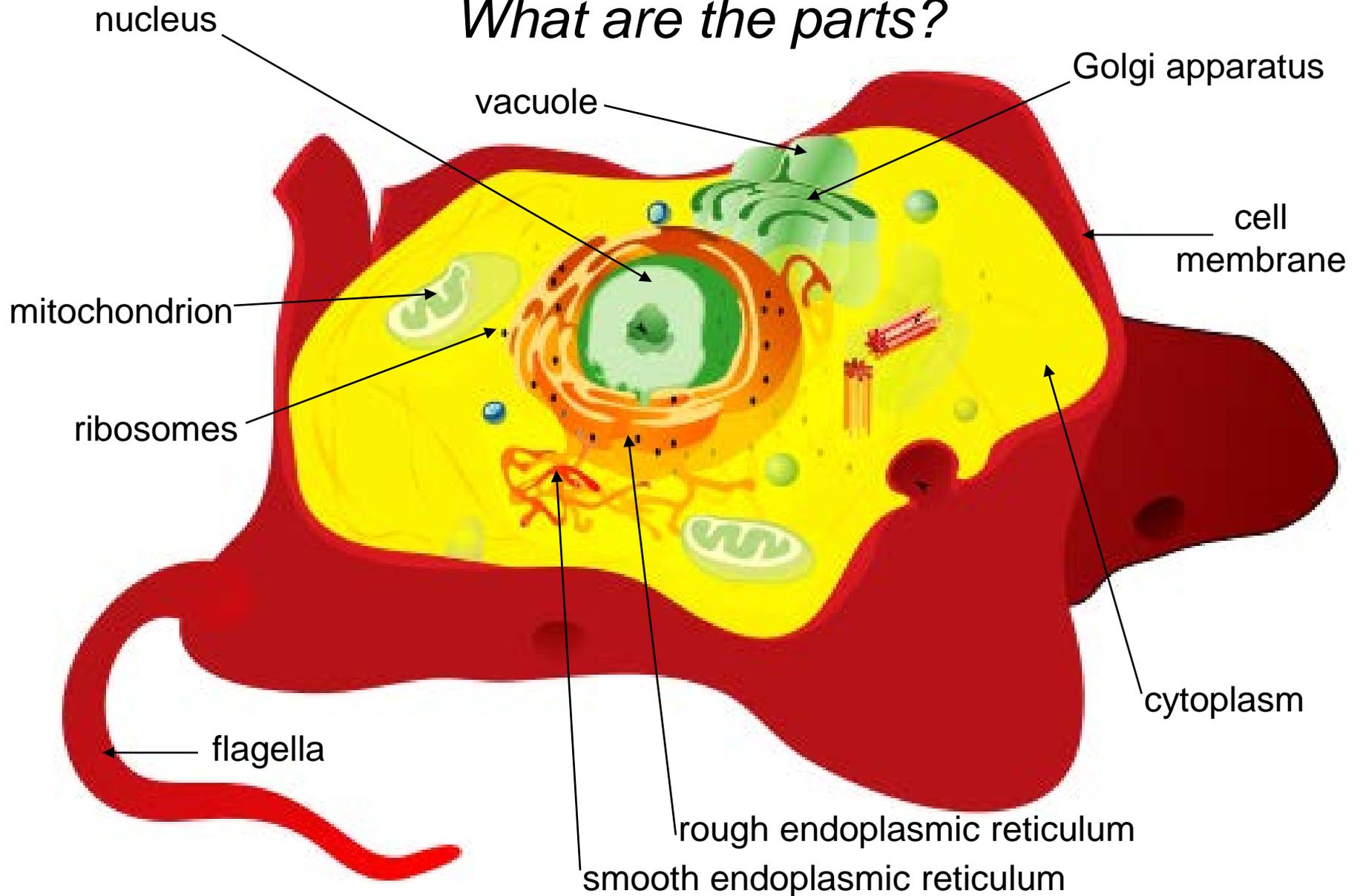
*What is it?*



- a structural and functional unit of a plant
  - different plant cells have different roles
- many types (parenchyma, collenchyma, sclerenchyma)

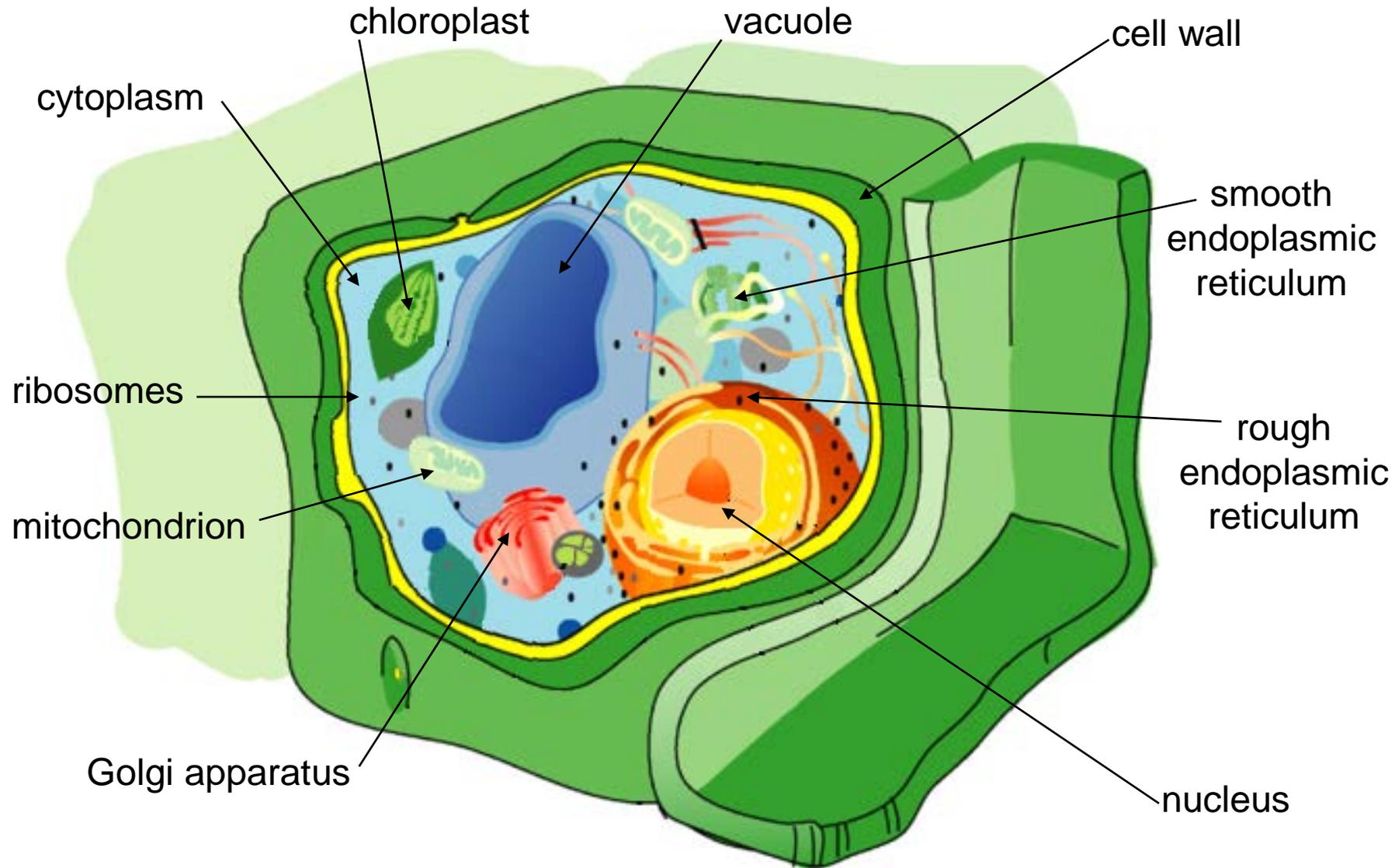
# Animal Cell

*What are the parts?*



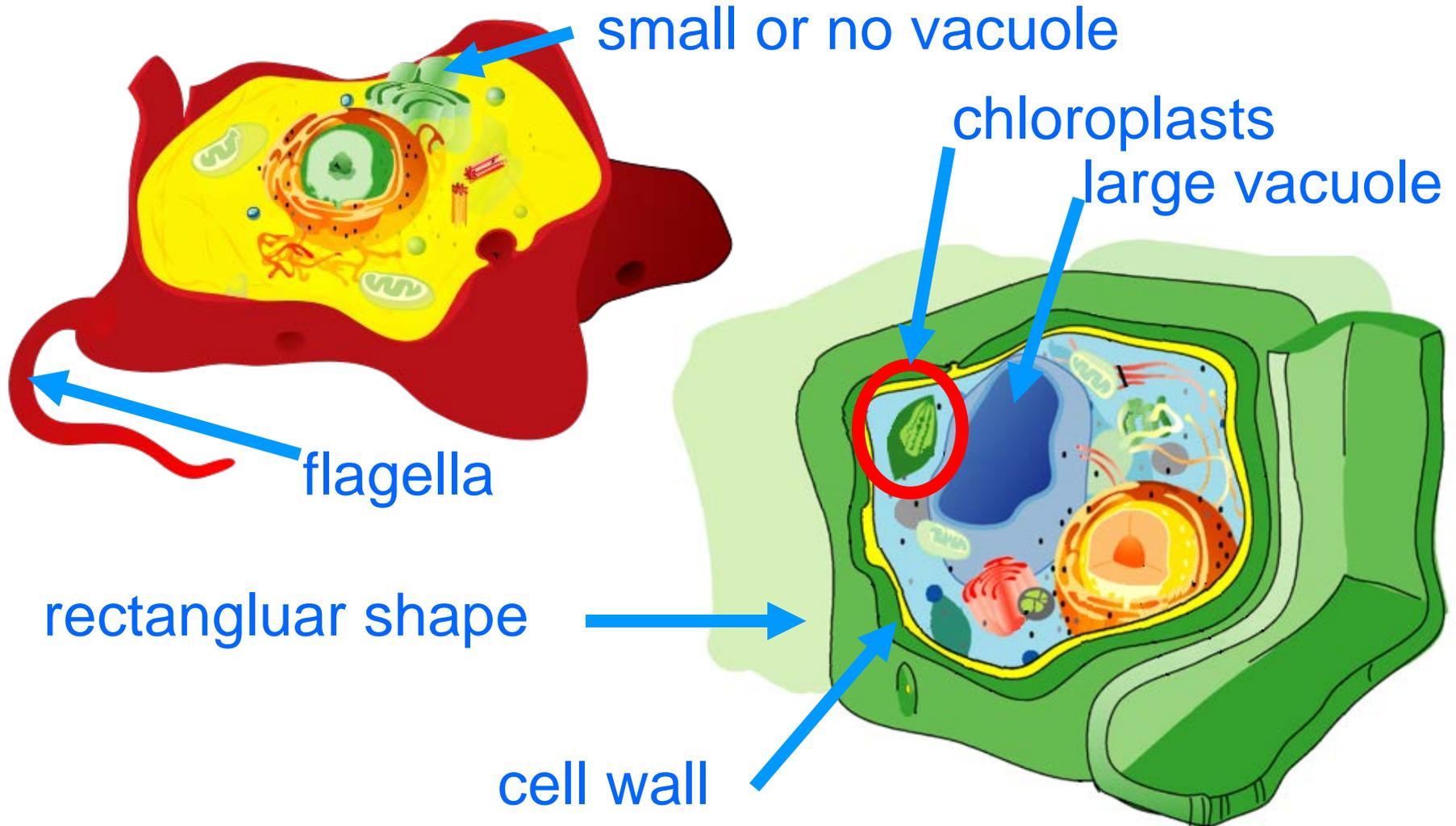
# Plant Cell

*What are the parts?*



# Animal Cell vs. Plant Cell

*What's the difference?*



# Compare and Contrast

**Plant**

**Both**

**Animal**

cell wall

large vacuole

chloroplasts

flagella only  
in gametes

mitochondrion

Golgi apparatus

rough and smooth  
endoplasmic  
reticulum

nucleus

cytoplasm

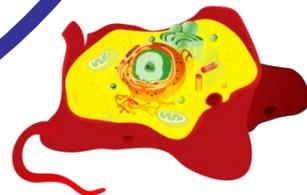
ribosomes

no cell wall

small or no vacuole

no chloroplasts

flagella



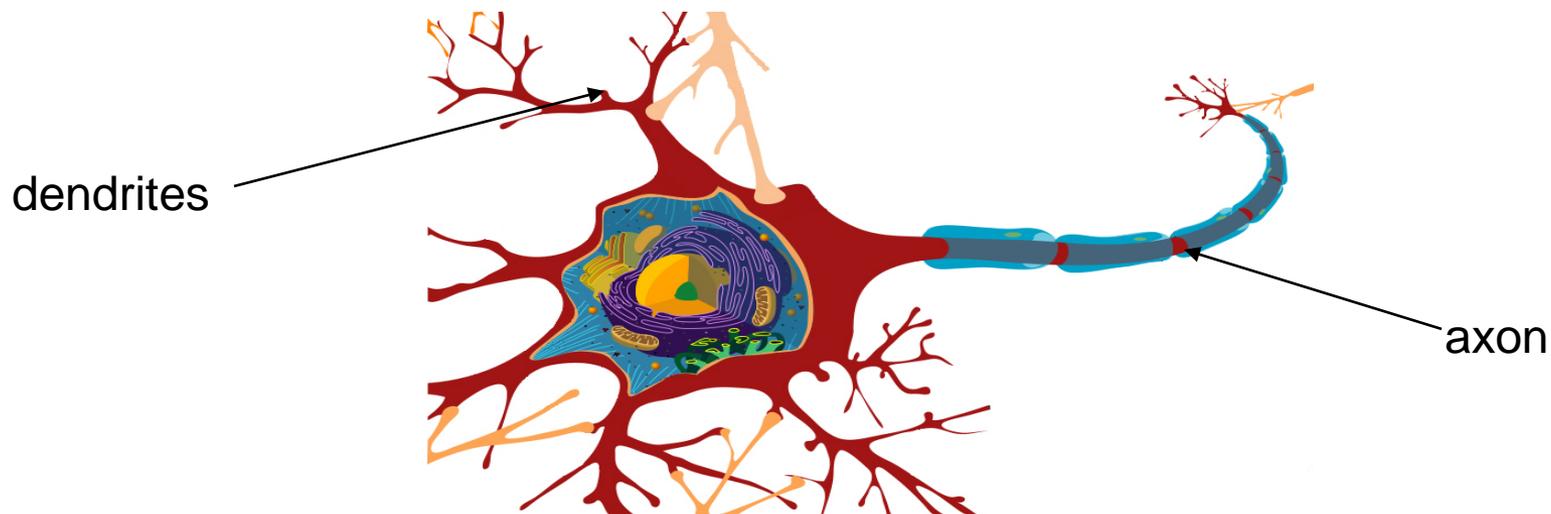


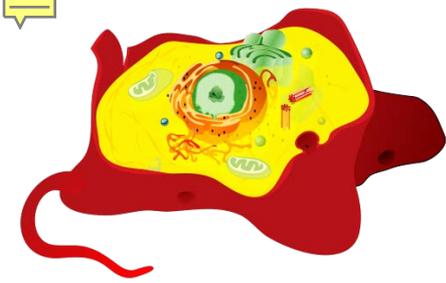
# Animal Cells



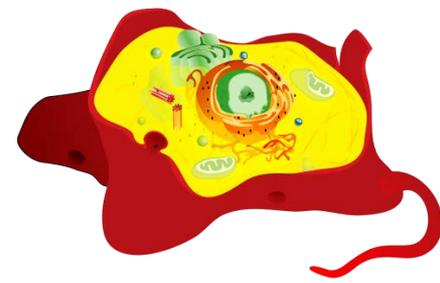
Each type of animal cell is specialized to do different jobs.

- **Nerve cells** electrochemically send information between sensory receptors and the central nervous system.



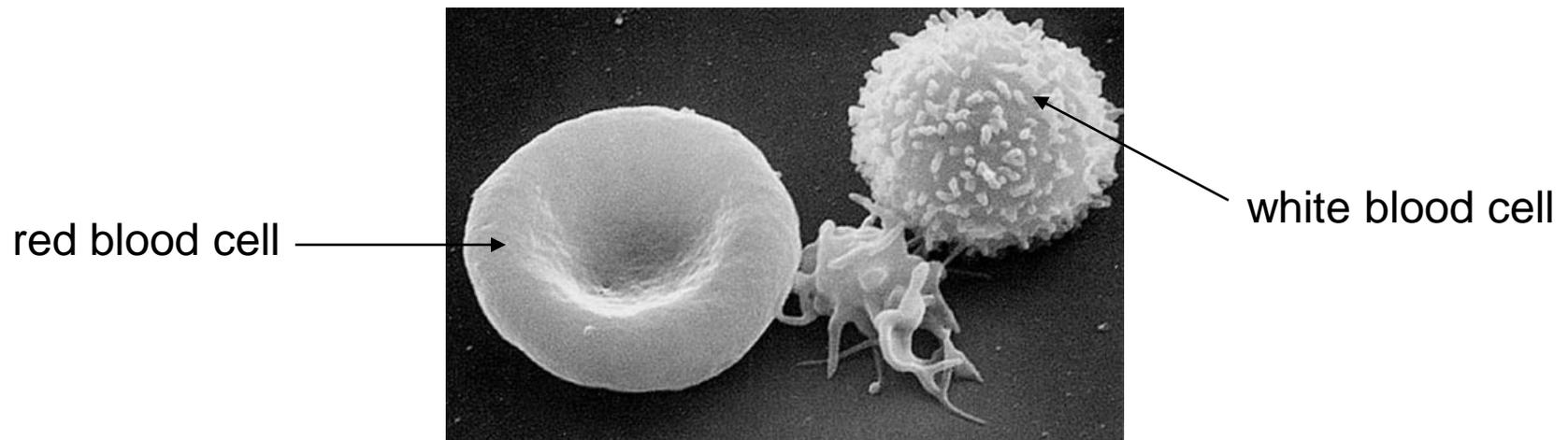


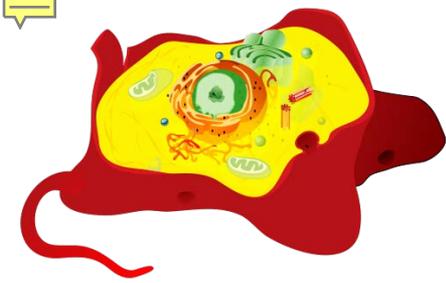
# Animal Cells



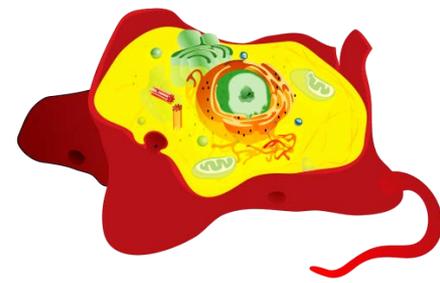
Each type of animal cell is specialized to do different jobs.

- **Blood cells** carry oxygen to the body's tissues and collect carbon dioxide. They also carry hormones, enzymes, and vitamins to different parts of the body.





# Animal Cells

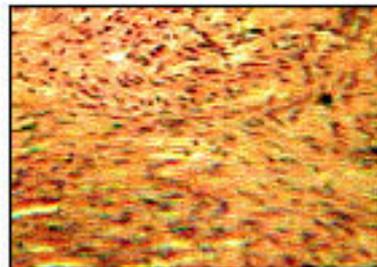


Each type of animal cell is specialized to do different jobs.

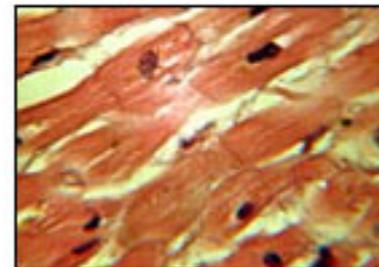
- **Muscle cells** comprise the three different types of muscles: skeletal, cardiac, and smooth types. These cells are shaped differently and enable these muscles to help our bodies function properly.



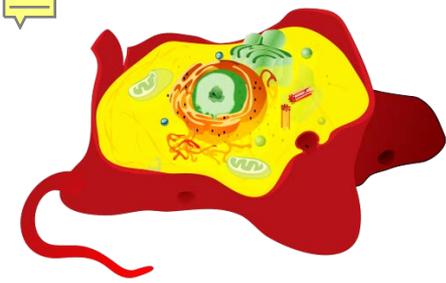
Skeletal muscle



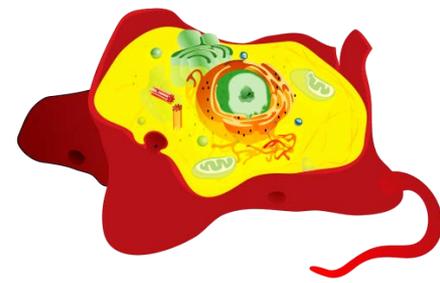
Smooth muscle



Cardiac muscle

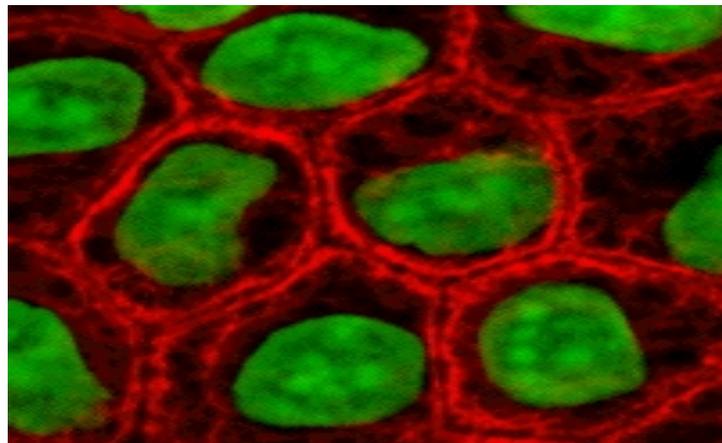


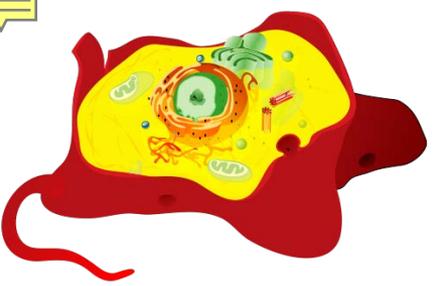
# Animal Cells



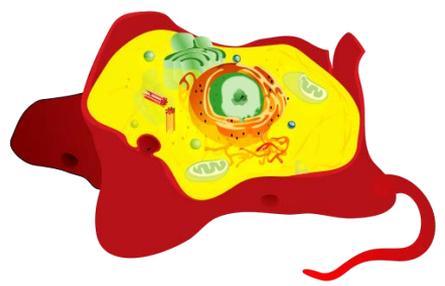
Each type of animal cell is specialized to do different jobs.

- **Skin cells** make up the tissue that covers our bodies. These cells are good at providing a barrier to the external environment and at preventing water loss.

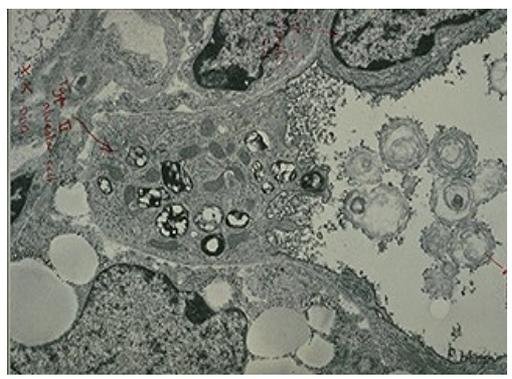




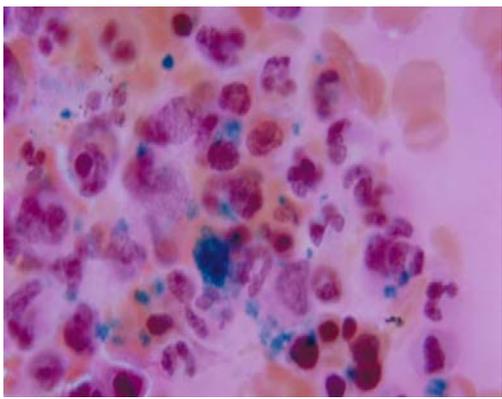
# Animal Cells



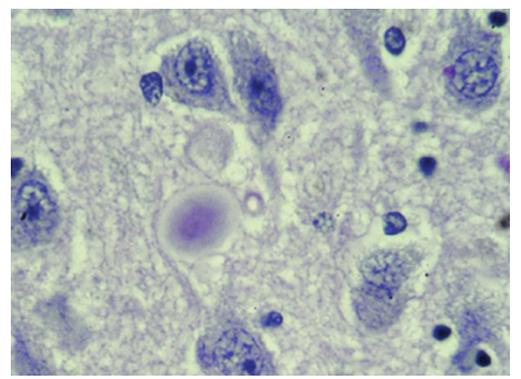
Each type of animal cell is specialized to do different jobs.



lung cells

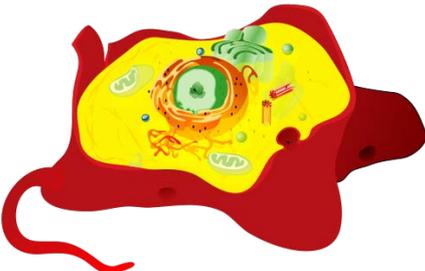


bone cells



brain cells

**There are many other types of animal cells!**



**The End**