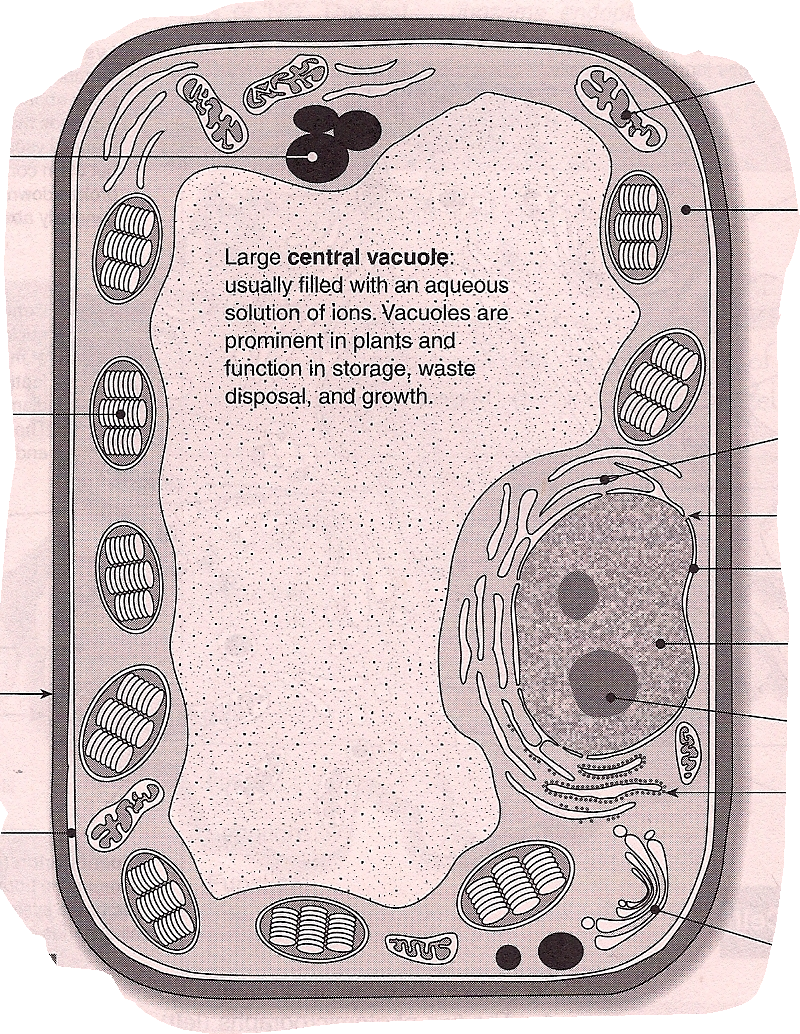
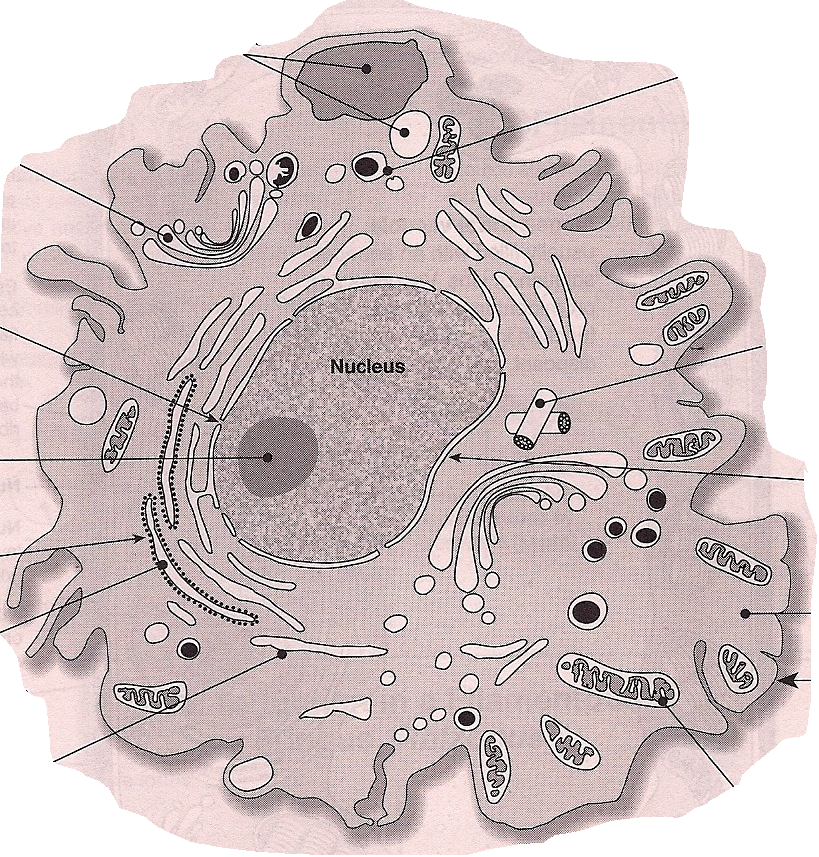
**Activity: Visualizing Cells - Use the following websites to explore the organelles that you have been learning about.**

[**http://www.cellsalive.com/cells/cell\_model.htm**](http://www.cellsalive.com/cells/cell_model.htm) **and/or** [**http://learn.genetics.utah.edu/content/cells/insideacell/**](http://learn.genetics.utah.edu/content/cells/insideacell/)

E (dot)



A

L

M

B

Starch granules stored within amyloplasts

K

L

C

J

A

I

K

D

H

G

J

E

B

F

F

I

C

G

D

H

A = \_\_\_\_\_\_\_\_\_\_\_\_ G = \_\_\_\_\_\_\_\_\_\_\_\_ A = \_\_\_\_\_\_\_\_\_\_\_\_ G = \_\_\_\_\_\_\_\_\_\_\_\_

B = \_\_\_\_\_\_\_\_\_\_\_\_ H = \_\_\_\_\_\_\_\_\_\_\_\_ B = \_\_\_\_\_\_\_\_\_\_\_\_ H = \_\_\_\_\_\_\_\_\_\_\_\_

C = \_\_\_\_\_\_\_\_\_\_\_\_ I = \_\_\_\_\_\_\_\_\_\_\_\_ C = \_\_\_\_\_\_\_\_\_\_\_\_ I = \_\_\_\_\_\_\_\_\_\_\_\_

D = \_\_\_\_\_\_\_\_\_\_\_\_ J = \_\_\_\_\_\_\_\_\_\_\_\_ D = \_\_\_\_\_\_\_\_\_\_\_\_ J = \_\_\_\_\_\_\_\_\_\_\_\_

E = \_\_\_\_\_\_\_\_\_\_\_\_ K = \_\_\_\_\_\_\_\_\_\_\_\_ E = \_\_\_\_\_\_\_\_\_\_\_\_ K = \_\_\_\_\_\_\_\_\_\_\_\_

F = \_\_\_\_\_\_\_\_\_\_\_\_ L = ­\_\_\_\_\_\_\_\_\_\_\_\_

M = ­\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Organelle or Cellular Feature | Description of  Function | Description of  Structure | Diagram | In all Eukaryotic cells? If not, in which specific types? | In Prokaryotic cells? | Other information | Analogy |
| Cell Membrane | To allow molecules into and out of the cell | Phospholipid bilayer with protein “tunnels” embedded in the bilayer |  | yes | yes | Cholesterol in the membrane and carbs are on outside | Customs officer for a country; gate keeper |
| Nucleus |  |  |  |  |  |  |  |
| Ribosomes |  |  |  |  |  |  |  |
| Mitochondria |  |  |  |  |  |  |  |
| Rough Endoplasmic Reticulum |  |  |  |  |  |  |  |
| Smooth Endoplasmic Reticulum |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Organelle or Cellular Feature | Description of  Function | Description of  Structure | Diagram | In all Eukaryotic cells? If not, in which specific types? | In Prokaryotic cells? | Other information | Analogy |
| Golgi  Apparatus |  |  |  |  |  |  |  |
| Lysosome |  |  |  |  |  |  |  |
| Chloroplast |  |  |  |  |  |  |  |
| Central Vacuole |  |  |  |  |  |  |  |
| Cell Wall |  |  |  |  |  |  |  |
| Cytoskeleton |  |  |  |  |  |  |  |

*Place each of the following into the Venn Diagram: cell membrane, cell wall, smooth ER, rough ER, ribosomes, golgi apparatus, lysosome, large central vacuole, , nucleus, DNA, cytoplasm, chloroplast, mitochondria, eukaryotic*

**Plant cells**

**Animal cells**

**Prokaryotic cells**