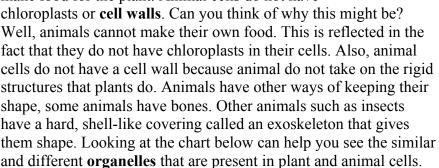
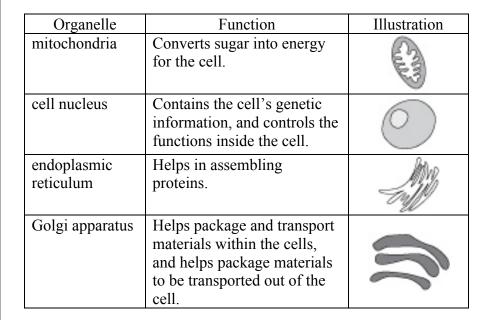


Scovery Comparing Plant and Animal Cells

Take a look at the image on the right. What living things are in the image? How do the plants appear to be different than the animals?

One of the main differences between plants and animals is usually obvious. Plants are green! But the evidence for this is so tiny you need a microscope to really see it. If you look at a plant **cell** under a microscope you can see that it has tiny green granules in sacs. These granules are green because they contain the pigment chlorophyll. This pigment absorbs energy from sunlight. This energy is used in an organelle called a **chloroplast** to make food for the plant. Animal cells do not have







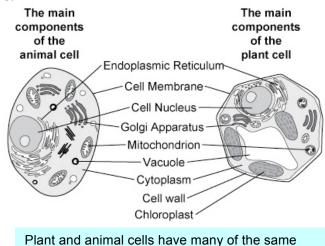
These are baby squirrel monkeys in a tree. Can you think of some difference between the plants and animals in this image?



Suscovery Comparing Plant and Animal Cells

Organelle	Function	Illustration
cell membrane	The surrounding layer of the cell that controls what materials enter and leave the cell.	
cytoplasm	The liquid inside the cell that surrounds the organelles.	
vacuole	Sac-like structures that help in cell activities. In plant cells large vacuoles contain water.	0
chloroplast	The structure that contains chlorophyll and carries out photosynthesis.	
cell wall	The rigid outside material that surrounds plant cells to give them structure.	

Overall, plants and animals have many organelles in common. Both plant and animal cells have organelles to help control, organize, and maintain the cell. These are functions that are mainly done by the cell nucleus, endoplasmic reticulum, cell membrane, cytoplasm, and mitochondria. So even though plants and animals are very different organisms, they have some very similar structures within their cells.



organelles.

Suscovery Comparing Plant and Animal Cells

Comprehension Questions

1. What organelles are present in plant cells that are not in animal cells?

2. Differentiate between the structure and function of the different organelles in plant cells.

3. Why do plant and animal cells have many of the same organelles?