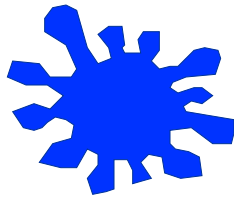


Plant and Animal Cell Organelles

Below is a list of a cell's organelles. The chart tells what the organelle does, and what it looks like.

Structure	Function	Description
<u>Cell Wall</u>	<ul style="list-style-type: none"> • Protects and surrounds a plant cell • Allows materials to enter or leave (oxygen, CO₂) 	<ul style="list-style-type: none"> • rigid outer layer • found only in plant cells
<u>Cell Membrane</u>	<ul style="list-style-type: none"> • Protects and surrounds the cell • Allows materials to enter or leave (oxygen, food , water) 	<ul style="list-style-type: none"> • thin outer layer of an animal cell • inner layer of a plant cells
<u>DNA</u>	<ul style="list-style-type: none"> • Contains instructions for traits and for directing all cell activities 	<ul style="list-style-type: none"> • long, twisted strands of chemicals located inside the nuclear membrane
<u>Nuclear Membrane</u>	<ul style="list-style-type: none"> • Protective layer around the DNA 	<ul style="list-style-type: none"> • large, oval shaped structure inside the cell
<u>Cytoplasm</u>	<ul style="list-style-type: none"> • Holds cell parts (organelles) in place 	<ul style="list-style-type: none"> • jelly-like substance made of cellulose (a sugar)
<u>Endoplasmic Reticulum</u>	<ul style="list-style-type: none"> • Materials travel throughout E.R. to get to parts of the cell (water, protein, etc.) 	<ul style="list-style-type: none"> • tube-like passageways that look like a maze



Structure	Function	Description
<u>Ribosomes</u>	<ul style="list-style-type: none">• Proteins are made here using instructions from the DNA	<ul style="list-style-type: none">• Tiny, round structures attached to endoplasmic reticulum
<u>Golgi Bodies</u>	<ul style="list-style-type: none">• Put proteins into packages and transport proteins out of the cell	<ul style="list-style-type: none">• Small pancake shapes made of a thin material
<u>Chloroplasts</u>	<ul style="list-style-type: none">• Make food in plant cells using a process called photosynthesis	<ul style="list-style-type: none">• round, green structures that contain chlorophyll• found only in plant cells
<u>Mitochondria</u>	<ul style="list-style-type: none">• Create energy for the cell for all activities (Respiration)	<ul style="list-style-type: none">• Oval shaped structure inside the cell (look like beans with a maze inside). They contain their own DNA
<u>Vacuoles</u>	<ul style="list-style-type: none">• Storage waste, food, and water for the cell	<ul style="list-style-type: none">• large, oval structure most common in plant cells. Largest structure in plant cell.• smaller in animal cells
<u>Lysosomes</u>	<ul style="list-style-type: none">• Clean up crew - sweep up dead cell parts, waste material	<ul style="list-style-type: none">• Round structures inside the cell