

# Nucleus

This is the control center of the cell. It **controls cell activities** and holds the DNA.

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# Cell Wall

This structure **supports and protects** the cell. It also **determines the shape** of the cell.

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# Cell Membrane

This structure allows substances to **pass in and out** of the cell and **protects** the interior of the cell.

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# Cytoplasm

A jelly-like material that **surrounds and protects** the cell's organelles within the cell membrane.

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# Golgi Apparatus

These are stacked membranes that **receive, store, package** and **release** proteins.

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# Endoplasmic Reticulum

This is the **transport system** of the cell.

This organelle is found both smooth (without ribosomes) and rough (with ribosomes) in the cell.

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# Ribosomes

These tiny organelles **make proteins**. They can be found free in the cytoplasm or attached to the ER.

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# Vacuoles

These fluid-filled sacs **store food, water, and waste**.

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# Lysosomes      Mitochondria

In animal cells, these organelles **break down** large food molecules into smaller ones.

This organelle is the powerhouse of the cell. It **releases stored energy from sugars**.

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# Chloroplasts

This organelle **uses energy to make sugar** in plant cells.

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# Cell

This is a **basic unit** of structure and function in living things.

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