

PLANT CELL

STRUCTURE & FUNCTION



CHLOROPLAST

Site of photosynthesis. Contains chlorophyll which captures light energy.



CENTRAL VACUOLE

Stores water, nutrients, and waste. Maintains turgor pressure and supports the cell.



CELL MEMBRANE

Controls what enters and exits the cell. Provides a protective barrier.



CELL WALL

Provides structure, support, and protection. Made mainly of cellulose.



NUCLEUS

The control center of the cell. Contains DNA and directs cell activities.

ENDOPLASMIC RETICULUM

Network of membranes that helps transport proteins and lipids within the cell.



GOLGI APPARATUS

Modifies, sorts, and packages proteins for transport.



MITOCHONDRIA

Produces energy for the cell through cellular respiration. Known as the cell's powerhouse.

CYTOPLASM

Jelly-like fluid that fills the cell and holds all organelles in place.

PLANT CELLS HAVE CHLOROPLASTS AND A CELL WALL, WHICH ANIMAL CELLS DO NOT HAVE.