

ANIMAL CELL ANATOMY

Reference Chart for Biological Sciences

Nucleus

The control center containing DNA; regulates growth and reproduction.

Mitochondria

The "powerhouse" of the cell; site of cellular respiration and ATP production.

Cell Membrane

A semi-permeable lipid bilayer that regulates what enters and exits the cell.

Ribosomes

Small particles of RNA and protein; the site of protein synthesis.

Endoplasmic Reticulum

A network of membranes used for transporting proteins and lipid synthesis.

Golgi Apparatus

Modifies, sorts, and packages proteins for secretion or delivery to organelles.

Lysosomes

Contains digestive enzymes to break down waste materials and cellular debris.

Cytoplasm

Gel-like substance that fills the cell and surrounds the organelles.