

ANIMAL CELL STRUCTURE

Microscopic Biology Reference Chart

ORGANELLE	PRIMARY FUNCTION
Nucleus	Genetic control center; contains DNA and coordinates cell activities.
Mitochondria	The "powerhouse"; site of cellular respiration and ATP production.
Ribosomes	Protein synthesis; found floating in cytoplasm or attached to ER.
Endoplasmic Reticulum	Transports materials; Rough (with ribosomes) and Smooth (lipid synthesis).
Golgi Apparatus	Modifies, sorts, and packages proteins for secretion.
Lysosomes	Contains digestive enzymes to break down waste and cellular debris.
Cell Membrane	Semi-permeable lipid bilayer regulating entry and exit of substances.
Cytoplasm	Jelly-like substance filling the cell, suspending organelles.