

Table of Cellular Components

Name of Component	Plant	Animal	Function
Cell Membrane	x	x	Provides separation between the cell and its environment
Flagella		x	Used for movement (i.e., swimming)
Rough Endoplasmic Reticulum	x	x	Covered in ribosomes. Location of lots of protein production.
Smooth Endoplasmic Reticulum	x	x	No ribosomes. Transports things around the cell.
Nucleolus	x	x	Makes ribosomes
Nuclear envelope	x	X	(Nuclear Membrane) Surrounds the nucleus to protect DNA
Nuclear Pores	X	x	Holes in the Nuclear Envelope that lets things go in and out of the Nucleus
Nucleus	x	X	Location of your DNA, controls the cell
Ribosomes	x	X	Makes proteins
Golgi Apparatus	x	x	(Golgi Body) Collects, packages, and distributes molecules.

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Central Vacuole	X		Pressurized with water to help support the plant
Mitochondria	x	X	Release energy from sugar
Lysosome	X	X	Digests and recycles material
Cell wall	X		Made of cellulose, structural support for plants
Small Vacuoles	X	X	Storing extra materials
Chromosomes (Chromatin)	x	X	DNA, unwound, so it can be read
Chloroplast	X		Makes sugar using sunlight
Cytoskeleton	x	X	Protein fibers inside cells used to hold the cells shape
Cilia		X	Tiny hairs that cover a cell that are used for swimming