

Parts of the Eukaryotic Cell

Name	Description
Cell Wall (plant or fungus cells only)	Rigid membrane around plant cell; made of cellulose and rigid carbohydrates materials; provides shape and support
Plastids (plant cells only)	Group of structures (chloroplasts, leukoplasts, chromoplasts) used in photosynthesis and product storage; have a double membrane and provide color and cellular energy
Vacuoles	Spherical storage sac for food and water
Cell Membrane	Membrane surrounding the cell that allows some molecules to pass through
Golgi Bodies	Flattened membrane sacs for synthesis, packaging, and distribution
Mitochondria	Rod-shaped double membranous structures where cellular respiration takes place
Endoplasmic Reticulum (ER)	Folded membranes having areas with and without ribosomes used for transport of RNA and proteins
Nucleus	Control center of the cell; location of hereditary information; surrounded by nuclear envelope
Ribosomes	Structures that make proteins; found on ER in the cytoplasm
Lysosomes	Spherical sac containing enzymes for digestive functions
Cilia (animal cell only)	Short, hair-like extensions on the surface of some cells used for movement and food gathering
Flagella (animal cell only)	Long, whip-like extension on the surface of some cells used for movement
Cytoplasm	Jelly-like substance in the cell around the nucleus and organelles