CELL ORGANELLES

ORGANELLE	LOCATION	DESCRIPTION	FUNCTION
CELL WALL	Plants cells only	OUTER LAYER , RIGID, STRONG, STIFF, NON-LIVING	*Protects and Support Cell * Allows oxygen and water to pass through
CELL MEMBRANE	Both plants and animal cells	Plant - inside cell wall Aniimal - outer layer	Controls what comes in and out of the cell
NUCLEUS	Plant and Animal Cells	Rounded shape surrounded by rest of organelles	Controls the cells activities
CYTOPLASM	Both plants and animal cells	Clear gel-like fluid	Home to the cell's organelles
MITOCHONDRIA	Both plants and animal cells	Bean shaped with inner membrane	Breaks down sugar molecules to create energy
ENDOPLASMIC RETICULUM	Both plants and animal cells	Network of folded tubes or membranes	Carries protein and other materials from one part of the cell to another
RIBOSOMES	Both plants and animal cells	Small bodies floating free or attached to the endoplasmic reticulum	Produces proteins
GOLGI BODIES	Both plants and animal cells	Flattened sacs or tubes	Receives proteins and other materials from the Endoplasmic Reticulum and packages them and then redistributes them
CHLOROPLASTS	Plants cells only	Green, oval structures usually containing chlorophyll	Captures energy from sunlight and uses it to produce food for cells
VACUOLES	Both plants and animal cells	Fluid-filled sacs	Storage area for cells
LYSOSMES	Plants cells -uncommom Animal cells - common	Small round structures	Use chemicals to break down large food particles into smaller ones, and breaks down old cells.