

CELL ORGANELLES

| ORGANELLE | LOCATION | DESCRIPTION | FUNCTION |
|-----------------------|---|---|---|
| CELL WALL | Plant cells only | Surrounds plant, fungi, bacteria, some protists | Protects and supports cell Allows oxygen and water to pass through |
| CELL MEMBRANE | All cells and animal cells | Thin, made of lipid bilayer, allows pass | Controls what comes in and out of the cell |
| NUCLEUS | Plant and animal cells | Roundish shape, surrounded by nuclear envelope | Controls the cells activities |
| CYTOPLASM | All cells and animal cells | Fills up the cell | Home for the cells organelles |
| MITOCHONDRIA | All cells and animal cells | Bean shaped with inner membrane | Makes most energy molecules in aerobic energy |
| ENDOPLASMIC RETICULUM | All cells and animal cells | Network of membranes in cytoplasm | Stores proteins and other materials from one part of the cell to another |
| RIBOSOMES | All cells and animal cells | Small bodies floating free or attached to the endoplasmic reticulum | Produce proteins |
| VEG. OF BODIES | All plants and animal cells | Flattened sacs or tubes | Store and transport materials from one part of the cell to another |
| CHLOROPLASTS | Plant cells only | Green, use photosynthesis to convert sunlight | Capture energy from sunlight and use it to produce food for cells |
| VACUOLES | All cells and animal cells | Fluid filled sacs | Storage area for cells |
| LYSOSOMES | Plant cells - uncommon Animal cells - common | Small round structures | Use enzymes to break down large food particles into smaller ones and recycle them in the cell |