

Ribosomes These small structures function as factories to produce proteins. Ribosomes Cytoplasm may be attached to the The cytoplasm includes Nucleus endoplasmic reticulum, a gel-like fluid in which The nucleus directs all or they may float in many different organelles of the cell's activities. the cytoplasm. are found. including reproduction. Mitochondria Most of the cell's energy is produced within these rod-shaped organelles. Lysosomes These small organelles

contain chemicals that break down food particles and worn-out

cell parts.

Vacuole

Some animal cells have vacuoles that store food, water, waste, and other materials.

Endoplasmic Reticulum

Golgi Body

The Golgi bodies receive materials from the endoplasmic reticulum and send them to other parts of the cell. They also release materials outside the cell.

Cell Membrane

Since an animal cell does not have a cell wall, the cell membrane forms a barrier between the cytoplasm and the environment outside the cell.

Plant Cell

Animal Cell