

# CELL ORGANELLES, STRUCTURES + FUNCTIONS

## CELL MEMBRANE

location: on the outside of an animal cell and inside the cell wall of a plant cell

function: boundary that provides limited support to the cell and controls movement of materials in and out of the cell

## CELL WALL

location: on the outside of a PLANT CELL

function: gives support and shape to cell

## CHLOROPLASTS

location: distributed throughout the cytoplasm of a PLANT CELL

function: makes food by photosynthesis

## CYTOPLASM

location: jellylike material throughout a cell

function: cellular liquid in which organelles are suspended

## ENDOPLASMIC RETICULUM (ER)

location: distributed throughout the cytoplasm of a cell

function: makes lipids (fats) and packages proteins for delivery out of the cell

## GOLGI COMPLEX (body/apparatus)

location: distributed throughout cytoplasm of a cell

function: changes, packages, and transports materials out of the cell

## LYSOSOMES

location: distributed throughout cytoplasm of an ANIMAL CELL

function: digests food particles, waste, and foreign invaders (viruses, bacteria ...)

## MITOCHONDRIA

location: distributed throughout cytoplasm of a cell

function: breaks down food molecules and releases energy

## NUCLEUS

location: near the center of a cell

function: controls cell activities

## RIBOSOMES

location: on ER and throughout the cytoplasm of a cell

function: make proteins

## VACUOLE

location: distributed throughout the cytoplasm of a PLANT CELL

function: stores water and other substances