Cell Membrane

Cell Wall

Nucleus

Ribosomes

Rough ER

Smooth ER

Lysosomes

Golgi Apparatus

Mitochondrion

# Cytoskeleton

- Found in plant and animal cells
- Encloses the cell's contents
- Keeps some materials out; holds some in, allows others out
- Is described by the fluid mosaic model

# Vacuole

- Found in plant cells only
- Surrounds the cell membrane
- Is strong and fairly rigid
- Is made mostly of cellulose

# Chloroplast

- Found in plant and animal cells
- A large organelle
- Contains DNA
- Is responsible for "running" the cell by controlling the production of proteins

- Found in plant and animal cells
- Make proteins
- Are produced in the nucleolus
- Very small in size compared to most other organelles
- Some are attached to the rough ER

- Appears "pebbled"
- Has ribosomes attached to its surface
- Is attached to the nucleus
- Produces and packages proteins

- Appears smooth
- Is attached to the rough ER
- Has many roles, including making lipids and steroids, breaking down toxins, and releasing calcium

- Digest macromolecules
- Contain enzymes
- Help fight disease, aid in digestion, recycle cell components
- Can kill a cell if the contents of many are released at once

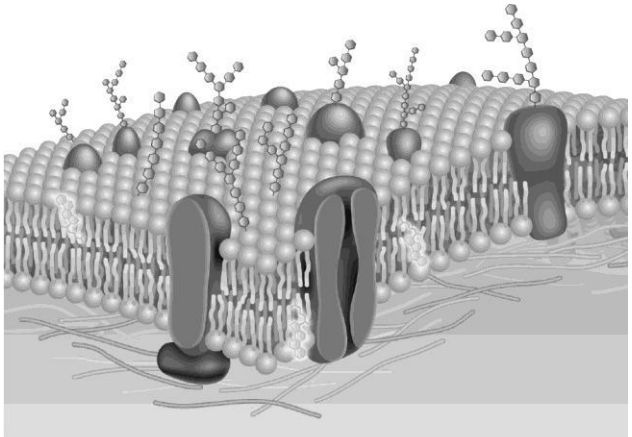
- Is composed of a stack of sacs made of membranes
- Modifies, stores, packages, and transports substances such as hormones and enzymes

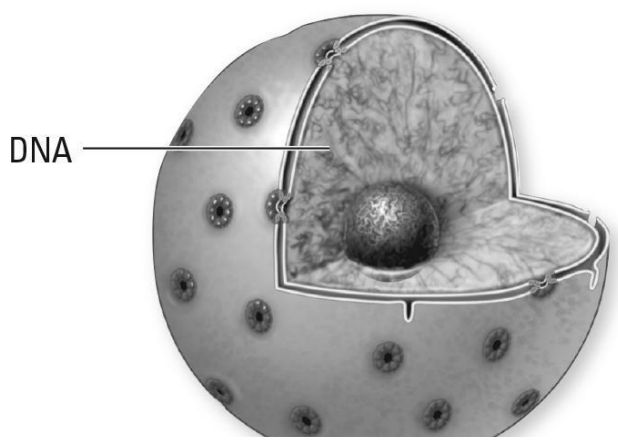
- Found in plant and animal cells
- The site of cellular respiration
- Has a smooth outer membrane and an inner membrane with many folds

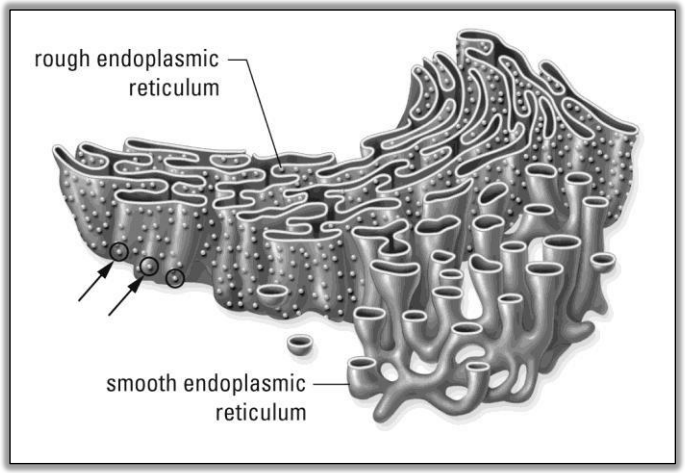
- A network of fibres extending throughout the cytosol
- Supports the cell and helps maintain its shape

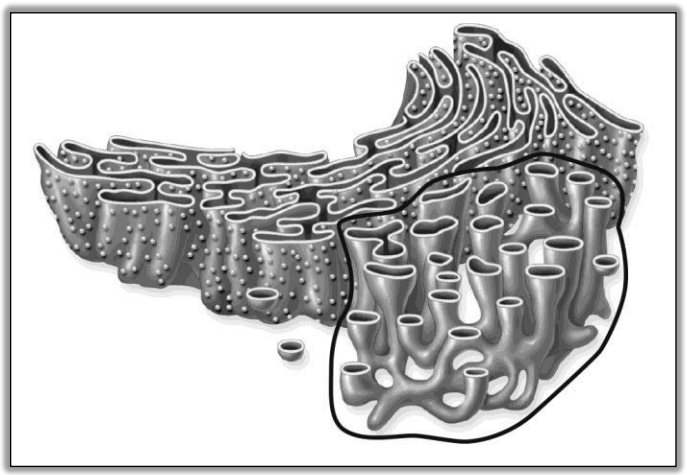
- Storage compartments
- Are very large in plant cells
- In plant cells, help keep the cell firm by maintaining outward pressure on the cell wall

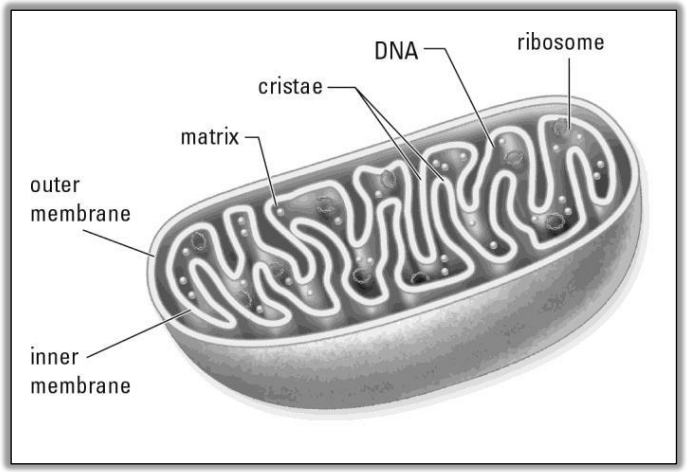
- Are found in plant cells only
- The site of photosynthesis
- Contain the green pigment chlorophyll

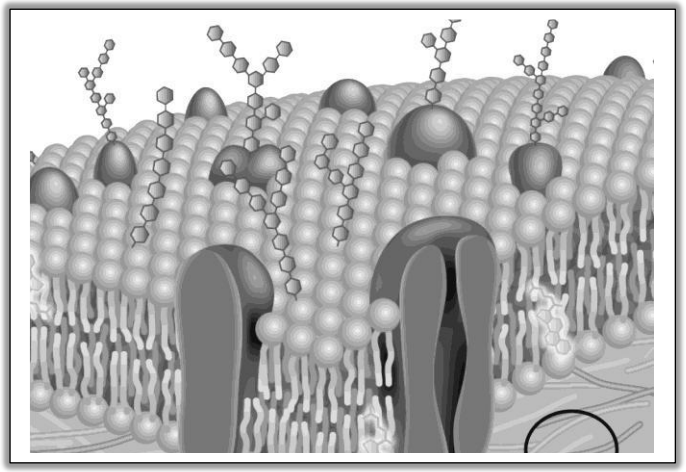


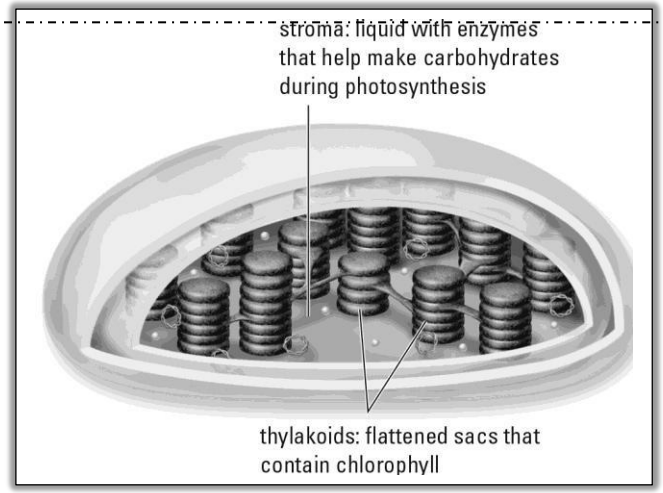


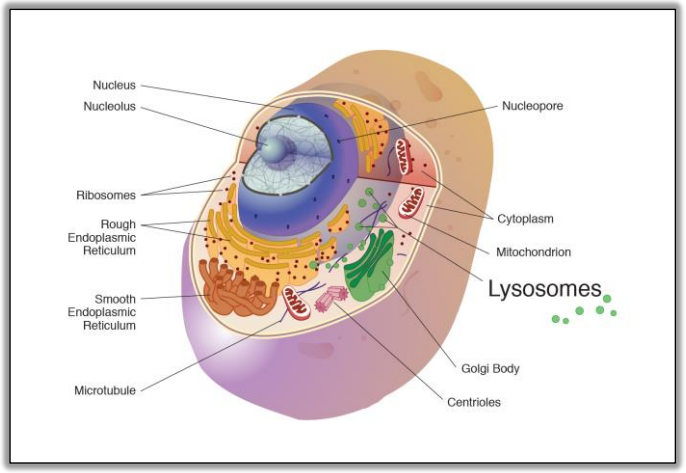

rough endoplasmic reticulum
smooth endoplasmic reticulum

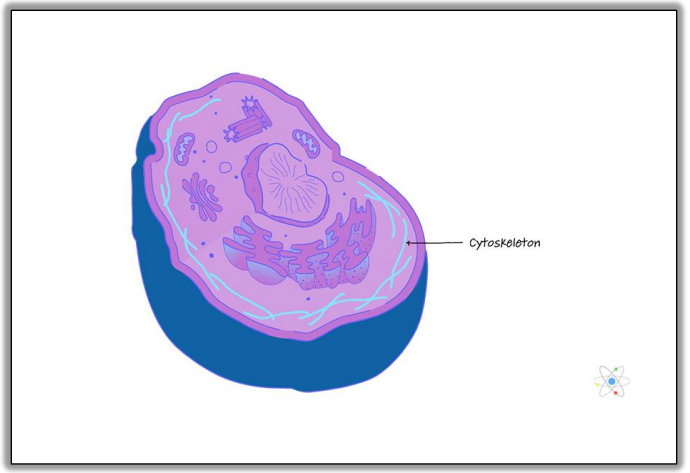



DNA
ribosome
cristae
matrix
outer membrane
inner membrane




stroma: liquid with enzymes that help make carbohydrates during photosynthesis
thylakoids: flattened sacs that contain chlorophyll


Nucleus
Nucleolus
Nucleopore
Ribosomes
Rough Endoplasmic Reticulum
Cytoplasm
Mitochondrion
Lysosomes
Smooth Endoplasmic Reticulum
Golgi Body
Microtubule
Centrioles


Cytoskeleton