

# Cell Structure and Function



## BIG PICTURE IDEAS

- Cells are the basic units of life and can be classified into two main types: **prokaryotic cells**, which lack a nucleus and membrane-bound organelles, and **eukaryotic cells**, which have a nucleus and various organelles.
- Organelles** are specialized structures within cells that perform specific functions. Examples include the **nucleus** (containing DNA), **mitochondria** (producing energy through cellular respiration), endoplasmic reticulum (involved in protein synthesis and lipid metabolism), and **Golgi apparatus** (modifying, sorting, and packaging proteins).
- Osmosis** is a type of passive transport in which water molecules move across a selectively permeable membrane from an area of lower solute concentration (**hypotonic**) to an area of higher solute concentration (**hypertonic**). It plays a vital role in maintaining proper water balance within cells and is crucial for various biological processes, including nutrient uptake and waste removal.
- Cellular **transport** is the process by which substances move into, out of, and within cells. It includes various mechanisms such as passive transport, facilitated diffusion, active transport, endocytosis, and exocytosis, ensuring the proper exchange of molecules and maintaining cellular **homeostasis**.
- The **plasma membrane** is a selectively permeable barrier that surrounds cells, regulating the entry and exit of substances. It consists of a phospholipid **bilayer** embedded with **proteins** and other molecules.

### KEY VOCAB



Ribosome

Lysosome

Turgor Pressure

Chlorophyll

Hydrophobic

Passive/Active Transport

Hypo/Hyper/Isotonic

Endosymbiosis

Endoplasmic Reticulum

Vacuole

Thylakoid

Surface Area

Hydrophilic

Concentration

Osmosis

Prokaryote

Golgi Complex

Chloroplast

Stroma

Volume

Selective Permeability

Solute

Water Potential

Eukaryote

Mitochondria

Apoptosis

Grana

Phospholipids

Polarity

Endo/Exocytosis

Osmoregulation

### KEY

### FORMULAS

Volume of sphere:  $V = 4/3\pi r^3$ Surface Area of sphere:  $SA = 4\pi r^2$  $W^* = W_1 + W_2$  $W_1 = -iCRT$ 

### ■ Topic 2.1 Cell Structure: Subcellular Components

### ■ Topic 2.2 Cell Structure and Function

### ■ Topic 2.10 Compartmentalization

- The **endomembrane system** includes the nuclear envelope, lysosomes, vesicles, endoplasmic reticulum, Golgi apparatus and plasma membrane.
- Apoptosis** is scheduled cell death.
- Secretory **vesicles** bud off the trans face of the Golgi Complex.
- Identify five pieces of evidence for the endosymbiosis theory of mitochondria and chloroplasts.  
*Double membranes, have their own DNA, have ribosomes, replicate independently, approximately the size of existing prokaryotic cells*

# Biology Unit 2 The Cell Answer Key

**Jianjun Gao**



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