

Chapter 4: Cell Structure and Function

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Cell Theory

- **Cell theory:** created by Rudolf Virchow, a fundamental concept of biology - by concluding that all cells come from preexisting cells, has 3 principles
 - Every organism is made up of 1 or more cells
 - The smallest organisms are single cells, and cells are the functional units of multicellular organisms
 - All cells arise from preexisting cells

What are the basic attribute of cells?

- **Cells perform an enormous variety of functions:** obtaining energy and nutrients, synthesizing biological molecules, eliminating wastes, interacting with one another, and reproducing
- **Diffusion:** the process by which molecules dissolved in fluids disperse from regions where their concentration is higher to places where its lower, slow process

All cells share Common Features

- The plasma membrane encloses the cell and allows interactions between the cell and its environment
 - **Plasma membrane:** surrounds each cell, extremely thin and fluid membrane contains proteins embedded in a double layer or bilayer of phospholipids interspersed with cholesterol molecules
 - The phospholipid bilayer helps isolate the cell from its surroundings, allowing the cell to maintain essential differences in the concentrations of materials inside and out (regulate what enters and exits)
 - Proteins within the bilayer facilitate connection between the cell and its environment
 - **Channel proteins:** allow passage of specific molecules or ions into or out of the cell
 - **Glycoproteins:** have short carb chains extending outside the cell, facilitate interactions between cell and respond to external signaling molecules that promote chemical reactions in cells

All Cells contain Cytoplasm

- **Cytoplasm:** consists of all the fluid and structures that lie inside the plasma membrane but outside the nucleus
- **Cytosol:** fluid part of the cytoplasm contains water, salts, and an assortment of organic molecules (proteins, lipids, carbs, sugars, amino acids, and nucleotides)
 - Most of the cells metabolic activities (reactions that support life) occur in the cytoplasm
- **Cytoskeleton:** consists of a variety of protein filaments within the cytoplasm
 - Provide support, transport structures within the cell, and allow cells to move or change shape

All Cells use DNA as hereditary blueprint and RNA to copy the blueprint and guide construction of cell parts

- **Deoxyribonucleic acid (DNA):** genetic material in all cells, an inherited blueprint consisting of segments called genes
 - Genes store the instructions for making all the parts of the cell and producing new cells
- **Ribonucleic acid (RNA):** chemically similar to DNA, copies and the cells genes of DNA and helps construct proteins based on genetic blueprint (used to produce new cells)

Chapter 4 Cell Structure And Function Answer Key

S Ben Porath



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