

Chapter: 7, Membrane Structure and Functions

Key Message/Theme of Chapter:

The membrane of a cell, particularly its structure and function, possess high importance as its components determine the cell's quality of life and chance of survival.

Vocab:

1. Active Transport- the movement of a substance across a cell membrane against its concentration or electrochemical gradient, mediated by specific transport proteins and requiring an expenditure of energy
2. Passive Transport- the diffusion of a substance across a biological membrane with no expenditure of energy
3. Selective Permeability- a property of a biological membrane that allows them to regulate the passage of substances across them
4. Exocytosis- the cellular secretion of biological molecules by the fusion of vesicles containing them with the plasma membrane
5. Endocytosis- cellular uptake of biological molecules and particulate matter via formation of vesicles from the plasma membrane

What was the most challenging material in the chapter? How would you explain it now?

The process of active transport occurs when the cell has to use energy to move a solute against a gradient, from an area of low concentration to high concentration. As a result, active transport plays an important role in controlling the electrochemical gradient for passive movement by controlling the solute concentration inside the cell. This includes through vesicle movement and membrane proteins. For example, proton pumps, which are integral proteins, move hydrogen ions outside the membrane using ATP.

Test Questions:

Which type of transport requires energy to perform at optimal level?	A) Passive B) Active C) Diffusion D) Osmosis
Name two types of Active transport and briefly describe them:	Endocytosis- the engulfment of large molecules using energy. The two types are phagocytosis and pinocytosis. Exocytosis- the secretion/movement of particles out of a cell
What is the difference between hypotonic and hypertonic?	Hypertonic is when there is low concentration of water and hypotonic is when there is high concentration.

Major Processes (Draw it Out): Osmosis, Passive vs. Active Transport



How does this material relate to last week's material?

Major Themes of Last Week	How does it connect?
- overview of the cell - organelles and functions - cell walls and junctions	- shows how things go in and out of the cell. - how things move and function in and around the cell - cell membranes and their permeability - how the organelles from Ch 6 help with moving things around the cell - cell membranes and how they work with endocytosis and exocytosis

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David Freifelder, Leon A. Snyder



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