

Chapter 7: Membrane Structure and Function

Learning Objectives

1. Explain the **fluid mosaic model** for membrane structure.

The fluid mosaic model of a cell membrane structure consists a phospholipid bilayer with proteins of different types moving freely within a fluid bilayer of phospholipids. The fluid aspect of the membrane is due to the lateral and rotational movement of phospholipids, and embedded proteins account for the mosaic aspect. Since the membrane is held together by relatively weak **hydrophobic** interactions, the lipids can move laterally.

- Cholesterol in animal cell membranes provides some rigidity to the membrane.
- In plants, the cell wall provides support.

2. Describe the properties of **phospholipids** and their arrangement in cellular membranes.

1. barrier about 8 nm thick, separates living cell from its surrounding
2. phospholipids and proteins are the main macromolecules in membranes
3. constituents are amphipathic molecules meaning they have hydrophobic regions and hydrophilic regions
4. selectively permeable allows some substances to cross more easily than others
5. The membrane is a mosaic of proteins dispersed within a lipid bilayer.

Note to self: Protein function in transport, signal transduction, cell recognition, and cell adhesion.

Integral proteins contact the hydrophobic core and some (transmembrane proteins) span the entire membrane.

Peripheral proteins are loosely bound to the surface of the membrane.

Carbohydrates are covalently bound to either lipids or proteins.

3. Describe the **fluid properties** of the cell membrane and explain how membrane fluidity is influenced by membrane composition. (temperature, cholesterol, saturation)

<https://youtu.be/BWQCA5M-CF4> & (fig 7.5)

A membrane is held together primarily by **hydrophobic interactions**, which are much weaker than covalent bonds.

- High **temperatures**=more fluidity & phospholipids spread apart more.
- low temperatures= less fluidity & phospholipids are closer (crystallized*)
- However, temperature at which a membrane solidifies depends on the types of lipids.

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