

## Chapter 7 Membrane Structure and Function

### Overview: Life at the Edge

- The plasma membrane is the boundary that separates the living cell from its surroundings.
- The plasma membrane exhibits **selective permeability**, allowing some substances to cross it more easily than others

### Concept 7.1: Cellular membranes are fluid mosaics of lipids and proteins.

- Phospholipids are the most abundant lipid in the plasma membrane
- Phospholipids are **amphipathic molecules**, containing hydrophobic and hydrophilic regions
- The **fluid mosaic model** states that a membrane is a fluid structure with a "mosaic" of various proteins embedded in it

If a molecule is hydrophobic, then it must also love lipids, since oil and water don't mix. Therefore, we can refer to a hydrophobic molecule as **lipophilic**.

Likewise, if a molecule is hydrophilic and loves water, then it must conversely hate lipids, and we can refer to it as **lipophobic**.

Phospholipids arrange themselves in such a way so as to protect the water-hating (hydrophobic) portion from the aqueous environment of the cell interior and exterior.

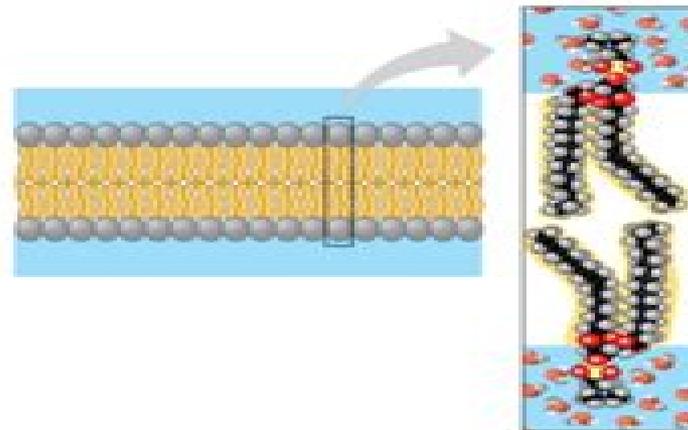


Figure 7.2 Phospholipid bilayer (cross section).

Remember, we know that based on the structure of a phospholipid, the head of the lipid molecule is polar. This is due to the presence of a positively-charged choline group and a negatively-charged phosphate group, both in the head of the molecule. This is what makes the head love water, another polar molecule.

The tail, meanwhile, is non-polar and this is why it hates water.

- Freeze-fracture studies of the plasma membrane supported the fluid mosaic model

# Chapter 7 Membrane Structure And Function

**Marcel A. Müller**



## **Chapter 7 Membrane Structure And Function:**

## **Chapter 7 Membrane Structure And Function** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Chapter 7 Membrane Structure And Function**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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