

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.

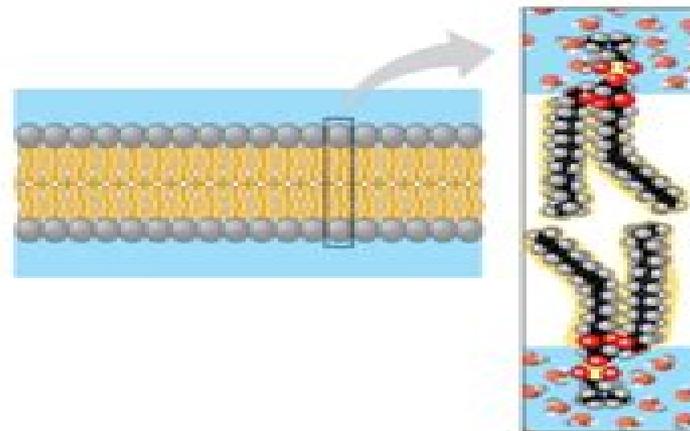


Figure 7.2 Phospholipid bilayer (cross section).

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

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