#### 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.

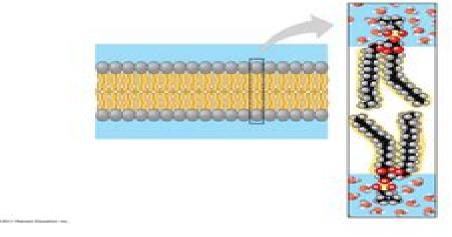


Figure 7.2 Phospholipid bilayer (cross section).

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

# **Membrane Structure And Function Chapter Notes**

**Lingjun Ying** 

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