

Chapter 7: Membrane Structure and Function

Concept 7.1 Cellular membranes are fluid mosaics of lipids and proteins

1. Phospholipids are *amphipathic*. Explain what this means.

Amphipathic means that the phospholipid has both a hydrophilic region and a hydrophobic region.

2. In the 1960s, the *Davson-Danielli model* of membrane structure was widely accepted. Describe this model and then cite two lines of evidence that were inconsistent with it.

The Davson-Danielli model of membrane structure suggested that the membrane might be coated on both sides with hydrophilic proteins, with a phospholipid bilayer between two layers of proteins.

First, inspection of a variety of membranes revealed that membranes with different functions differ in structure and chemical composition. A second, more serious problem became apparent once membrane proteins were better characterized. Unlike proteins dissolved in the cytosol, membrane proteins are not very soluble in water because they are amphipathic. If such proteins were layered on the surface of the membrane, their hydrophobic parts would be in aqueous surroundings.

3. The currently accepted model of the membrane is the *fluid mosaic model*. Who proposed it? When? Describe this model.

S. J. Singer and G. Nicolson proposed the fluid mosaic model in 1972. In this model, the membrane proteins reside in the phospholipid bilayer with their hydrophilic regions protruding.

4. What is meant by *membrane fluidity*? Describe the movements seen in the fluid membrane.

A membrane is held together primarily by hydrophobic interactions, which are much weaker than covalent bonds. Most of the lipids and some of the proteins can shift about laterally—that is, in the plane of the membrane. The lateral movement of phospholipids within the membrane is rapid, occurring about 10^7 times per second.

5. Describe how each of the following can affect membrane fluidity:

a. decreasing temperature: A membrane remains fluid as temperature decreases until finally the phospholipids settle into a closely packed arrangement and the membrane solidifies. The temperature at which a membrane solidifies depends on the types of lipids it is made of.

b. phospholipids with unsaturated hydrocarbon chains: The membrane remains fluid to a lower temperature if it is rich in phospholipids with unsaturated hydrocarbon tails. Because of kinks in the tails where double bonds are located, unsaturated hydrocarbon tails cannot pack together as closely as saturated hydrocarbon tails, and this makes the membrane more fluid.

c. cholesterol: At relatively high temperatures—at 37°C, the body temperature of humans, for example—cholesterol makes the membrane less fluid by restraining phospholipid movement.

Membrane Structure And Function Guide Answer Key

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