

## **Cell Membrane—Structure and Function**

### **Composition of the Cell Membrane and Functions**

The **cell membrane** is also called the plasma membrane and is made of a phospholipid bilayer (A). Some of the functions of the cell membrane include protecting and enclosing the cell, giving shape to the cell, allowing transportation of materials in and out of the cell, and carrying out metabolic reactions near the inner surface of the cell membrane. The phospholipids of the cell membrane have a “hydrophilic” (water loving/attraction) head (B) and two “hydrophobic” (water fearing/repelling) tails (C). The head of a phospholipid is made of an alcohol and phosphate group, while the tails are chains of fatty acids.

The cell membrane is constantly vibrating, creating small openings within the structure. Therefore, the phospholipids can allow water and other smaller molecules to pass through into or out of the cell, without the use of energy. This type of passive transport is known as diffusion because the molecules are moving with the concentration gradient (high → low).

Another type of lipid in the cell membrane is cholesterol (D), which makes the membrane more fluid and adds to its flexibility. Embedded in the phospholipid bilayer are proteins that also aid in diffusion and cell recognition. Proteins called integral proteins (E) go all the way through the bilayer. Large molecules like glucose utilize these channel proteins to help move across cell membranes without the use of energy. Peripheral proteins (F) are a type of membrane protein that is permanently attached to the biological membrane. Some membrane proteins, called glycoproteins (G), have carbohydrate chains (H) attached to help cells recognize each other and certain molecules.

1. What is another name for the cell membrane? Generally speaking, identify the overall structure of the cell membrane.
2. Define hydrophilic. Which portion of the bilayer is hydrophilic?

# Membrane Structure And Function Answers Study Guide

**Morton M. Sternheim**



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necessary to identify individual studies that have a broad impact on our understanding of cell biology This text describes in detail some of the key experimental findings along with the original data and figures

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