

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.

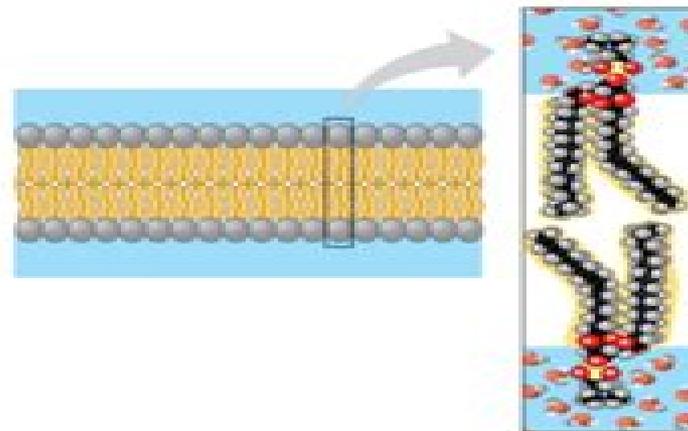


Figure 7.2 Phospholipid bilayer (cross section).

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

Peipei Pang



Chapter 7 Membrane Structure And Function:

This book delves into Chapter 7 Membrane Structure And Function. Chapter 7 Membrane Structure And Function is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Chapter 7 Membrane Structure And Function, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Chapter 7 Membrane Structure And Function
 - Chapter 2: Essential Elements of Chapter 7 Membrane Structure And Function
 - Chapter 3: Chapter 7 Membrane Structure And Function in Everyday Life
 - Chapter 4: Chapter 7 Membrane Structure And Function in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Chapter 7 Membrane Structure And Function. The first chapter will explore what Chapter 7 Membrane Structure And Function is, why Chapter 7 Membrane Structure And Function is vital, and how to effectively learn about Chapter 7 Membrane Structure And Function.
 3. In chapter 2, the author will delve into the foundational concepts of Chapter 7 Membrane Structure And Function. The second chapter will elucidate the essential principles that need to be understood to grasp Chapter 7 Membrane Structure And Function in its entirety.
 4. In chapter 3, this book will examine the practical applications of Chapter 7 Membrane Structure And Function in daily life. This chapter will showcase real-world examples of how Chapter 7 Membrane Structure And Function can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Chapter 7 Membrane Structure And Function in specific contexts. This chapter will explore how Chapter 7 Membrane Structure And Function is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Chapter 7 Membrane Structure And Function. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 7 Membrane Structure And Function.

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