

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.

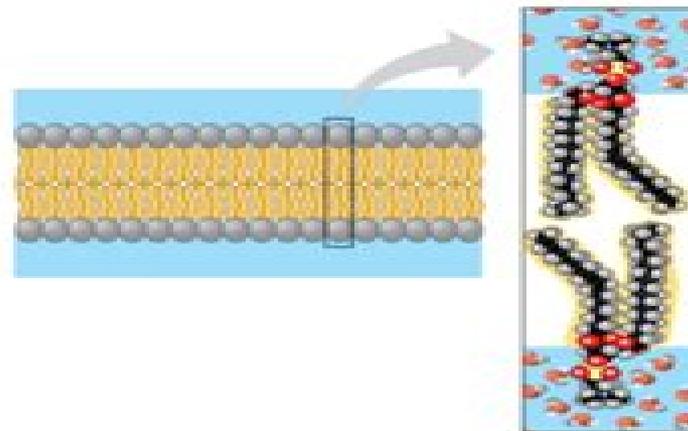


Figure 7.2 Phospholipid bilayer (cross section).

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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Table of Contents Chapter 7 Membrane Structure And Function

1. Understanding the eBook Chapter 7 Membrane Structure And Function
 - The Rise of Digital Reading Chapter 7 Membrane Structure And Function
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 7 Membrane Structure And Function
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 7 Membrane Structure And Function
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 7 Membrane Structure And Function
 - Personalized Recommendations
 - Chapter 7 Membrane Structure And Function User Reviews and Ratings
 - Chapter 7 Membrane Structure And Function and Bestseller Lists
5. Accessing Chapter 7 Membrane Structure And Function Free and Paid eBooks
 - Chapter 7 Membrane Structure And Function Public Domain eBooks
 - Chapter 7 Membrane Structure And Function eBook Subscription Services
 - Chapter 7 Membrane Structure And Function Budget-Friendly Options

6. Navigating Chapter 7 Membrane Structure And Function eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 7 Membrane Structure And Function Compatibility with Devices
 - Chapter 7 Membrane Structure And Function Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 7 Membrane Structure And Function
 - Highlighting and Note-Taking Chapter 7 Membrane Structure And Function
 - Interactive Elements Chapter 7 Membrane Structure And Function
8. Staying Engaged with Chapter 7 Membrane Structure And Function
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 7 Membrane Structure And Function
9. Balancing eBooks and Physical Books Chapter 7 Membrane Structure And Function
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 7 Membrane Structure And Function
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 7 Membrane Structure And Function
 - Setting Reading Goals Chapter 7 Membrane Structure And Function
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 7 Membrane Structure And Function
 - Fact-Checking eBook Content of Chapter 7 Membrane Structure And Function
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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