

## 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.

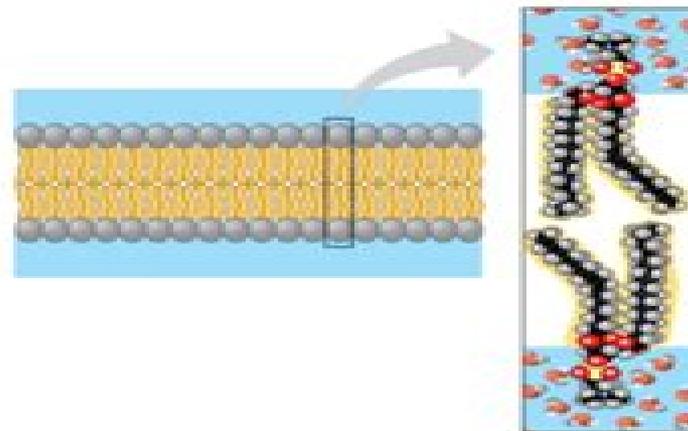


Figure 7.2 Phospholipid bilayer (cross section).

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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**Rachel Sandford**



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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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