

Name _____ Period _____

Chapter 7: Membrane Structure and Function

Concept 7.1 Cellular membranes are fluid mosaics of lipids and proteins

1. The large molecules of all living things fall into just four main classes. Name them.
*Lipids Carbohydrates
Proteins Nucleic Acids*
2. Explain what is meant when we say a molecule is amphipathic.
It has a hydrophobic and hydrophilic region
3. 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. *Phospholipid bilayer was sandwiched between two layers of hydrophilic proteins. Proteins: different membranes with differing functions don't have the same structure and composition and membrane proteins aren't soluble in water as they are amphipathic.*
4. Who proposed the *fluid mosaic model* of membrane structure? When? Describe this model. *S. J. Singer & G. Nicolson proposed the fluid mosaic model in 1972. They said membrane proteins were dotted in a mosaic-like pattern throughout the membrane with their hydrophobic regions inside the layer and their hydrophilic regions protruding.*
5. What is meant by *membrane fluidity*? Describe the movements seen in the fluid membrane. *The viscosity of the lipid bilayer of a cell membrane or a synthetic lipid membrane. Phospholipids can move laterally within the phospholipid bilayer and may even flip with the opposing phospholipid at times. Some membrane proteins drift, also contributing to fluidity of membrane.*
6. Describe how each of the following can affect membrane fluidity:
 - a. decreasing temperature *cause membrane to become more solid*
 - b. phospholipids with unsaturated hydrocarbon chains *make membrane more fluid at lower temp due to kinks in tails which don't allow for close packing*
 - c. cholesterol *hinders close packing of phospholipids at low temperature, however, also hinders excessive phospholipid movement at higher temperature*

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Chapter 7

Scott C. Dulebohn



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Table of Contents Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7

1. Understanding the eBook Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - The Rise of Digital Reading Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - 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 Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Personalized Recommendations
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 User Reviews and Ratings
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 and Bestseller Lists
5. Accessing Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 Free and Paid eBooks
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 Public Domain eBooks
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 eBook Subscription Services
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 Budget-Friendly Options
6. Navigating Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 Compatibility with Devices
 - Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Highlighting and Note-Taking Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Interactive Elements Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
8. Staying Engaged with Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
- 9. Balancing eBooks and Physical Books Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Setting Reading Goals Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - Fact-Checking eBook Content of Ap Reading Guide Fred And Theresa Holtzclaw Answers Chapter 7
 - 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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