

Name _____ Period _____

Chapter 7: Membrane Structure and Function

Concept 7.1 Cellular membranes are fluid mosaics of lipids and proteins

- The large molecules of all living things fall into just four main classes. Name them.
Lipids Carbohydrates
Proteins Nucleic Acids
- Explain what is meant when we say a molecule is amphipathic.
It has a hydrophobic and hydrophilic region
- 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.
- 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.
- 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.
- Describe how each of the following can affect membrane fluidity:
 - decreasing temperature cause membrane to become more solid
 - phospholipids with unsaturated hydrocarbon chains make membrane more fluid at lower temp due to kinks in tails which don't allow for close packing
 - cholesterol hinders close packing of phospholipids at low temperature, however, also hinders excessive phospholipid movement at higher temperature

Chapter 41 Ap Bio Guide

M Mark



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Table of Contents Chapter 41 Ap Bio Guide

1. Understanding the eBook Chapter 41 Ap Bio Guide
 - The Rise of Digital Reading Chapter 41 Ap Bio Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 41 Ap Bio Guide
 - 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 41 Ap Bio Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 41 Ap Bio Guide
 - Personalized Recommendations
 - Chapter 41 Ap Bio Guide User Reviews and Ratings
 - Chapter 41 Ap Bio Guide and Bestseller Lists
5. Accessing Chapter 41 Ap Bio Guide Free and Paid eBooks
 - Chapter 41 Ap Bio Guide Public Domain eBooks
 - Chapter 41 Ap Bio Guide eBook Subscription Services
 - Chapter 41 Ap Bio Guide Budget-Friendly Options
6. Navigating Chapter 41 Ap Bio Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 41 Ap Bio Guide Compatibility with Devices
 - Chapter 41 Ap Bio Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 41 Ap Bio Guide
 - Highlighting and Note-Taking Chapter 41 Ap Bio Guide
 - Interactive Elements Chapter 41 Ap Bio Guide
8. Staying Engaged with Chapter 41 Ap Bio Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 41 Ap Bio Guide
9. Balancing eBooks and Physical Books Chapter 41 Ap Bio Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 41 Ap Bio Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 41 Ap Bio Guide
- Setting Reading Goals Chapter 41 Ap Bio Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 41 Ap Bio Guide
- Fact-Checking eBook Content of Chapter 41 Ap Bio Guide
 - 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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