

Membrane Structure POGIL™ Activities for AP® Biology

What molecules make up a membrane?

Why?

Imagine your bedroom without closets, drawers, shelves, bags or boxes—just a room with a bed. Where would your stuff be? Would you be able to find the things you needed? How efficiently could you get ready for school in the morning? Would all of your school items be together when you sat down to study? The compartments you use in your room—the closet, drawers, etc.—help you organize items by category so that all the items you need to get dressed are in one place. All the items you need for studying are in another place. This **compartmentalization** improves efficiency. Cells also need organization to improve efficiency. The compartmentalization of cells is achieved by dividing up areas in the cell with membranes. A plasma membrane compartmentalizes internal structures while the cell membrane acts as a boundary between the cell and the external environment.

Model 1 – Phospholipids

1. Refer to Model 1. Identify at least two organic functional groups in a phospholipid molecule.

2. Consider the term phospholipid.

a. What portion of the molecule in Model 1 is responsible for the “phospho-” part of the name?

b. What portion of the molecule in Model 1 is responsible for the “-lipid” part of the name?

3. Part of a phospholipid is polar.

a. Circle the portion of the molecule in Model 1 that is polar.

b. Would this portion of the phospholipid mix well with water? Explain your reasoning.

4. Part of a phospholipid is nonpolar.

a. Draw a square around the portion of the molecule in Model 1 that is nonpolar.

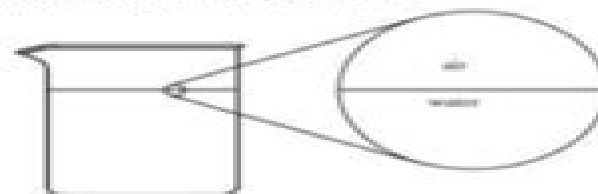
b. Would this portion of the phospholipid mix well with water? Explain your reasoning.

5. Label the regions of the molecule in Model 1 with the phrases “hydrophilic head” and “hydrophobic tail.”

6. Scientists often use a cartoon representation like the one shown below to represent a phospholipid. Which portion of the cartoon represents the hydrophilic head of the phospholipid?



7. When phospholipids are placed on the surface of water they form a thin layer. Consider carefully which portion of the phospholipid will be in the water and which will be in the air in order to obtain the most stable (lowest potential energy—maximum attractions) system. Draw a cartoon-like representation below to show the proper orientation of three phospholipid molecules on the surface of water.



8. When a small amount of oil is added to a beaker of water containing phospholipids, the phospholipids will surround the oil droplets forming **micelles**. Use several cartoon representations of phospholipid molecules to show the arrangement or orientation of phospholipids in a micelle.

Pogil Activities For Ap Biology Membrane Structure Worksheet Answers

Clifford Lane



Pogil Activities For Ap Biology Membrane Structure Worksheet Answers:

Membrane Structure and Function W. Howard Evans, John M. Graham, 1989 This study introduces the reader to the basic components of membranes and describes their functions in for example regulation of the cell s environment and the transport of nutrients and waste *Membrane Structure and Function* , 1988 **Membrane structure** , 1972

Biological Membranes, Their Structure and Function Roger Harrison, George G. Lunt, 1980 Membrane Structure and Function, Volume 4 EE Bittar (Ed), 1981 *Membrane Structure and Function, Volume 3* EE Bittar (Ed), 1980

Membrane Structure and Function Evelyn Edward Bittar, 1980 *Membrane Structure and Dynamics* Grupos de Membranos, Sociedad Española de Bioquímica, Membrane Group, Biochemical Society, 1989 **Membrane Structure and Function. Vol. 3** E. Edward Bittar, 1980 The Dynamics of Membrane Structure , 1980 **Membrane Structure** , 1973

Hydration and Charge Effects on Model Membrane Structure and Interaction Małgorzata Maria Hermanowska, 2010 Biological Membranes D. S. Parsons, Dennis Shirley Parsons, 1975 Essays on the organizations properties and functions of cell membranes *Essential AP Biology* Princeton Review, 2010-12-28 Portable and easy to use the Princeton Review s Essential AP Biology flashcards bring you important terms and helpful explanations to help turbo charge your AP test prep With information naturally broken into bite sized chunks our flashcards make it easy to study anytime and anywhere Essential AP Biology includes 450 flashcards with need to know terms for key AP Biology subject areas covering topics such as cells cellular energetic photosynthesis molecular genetics cell reproduction heredity diversity of organisms plants animal structure and function and more Use the color coded scale on the sides of the box to help measure your progress by keeping track of how many cards you ve studied so far which terms you ve mastered and which you still need to review Studying for the AP Biology Exam doesn t have to be painful the Princeton Review s Essential AP Biology flashcards will make it a breeze *Membrane Systems and the Organization of Cells* Vincent T. Marchesi, 1974

The Plasma Membrane B. D. Gomperts, 1977 **New Ideas in Membrane Structure with Special Reference to Genetic Diseases** , 1974 **Membrane Biology and Bioenergetics** Mr. Rohit Manglik, 2024-06-24 Studies membrane structure transport mechanisms and bioenergetics focusing on ATP synthesis and cellular energy processes in biology

POGIL Activities for AP Biology , 2012-10 Structure and Properties of Cell Membranes: Molecular basis of selected transport systems Gheorghe Benga, 1985 V 1 A survey of molecular aspects of membrane structure and function v 2 Molecular basis of selected transport systems v 3 Methodology and properties of membranes

This book delves into Pogil Activities For Ap Biology Membrane Structure Worksheet Answers. Pogil Activities For Ap Biology Membrane Structure Worksheet Answers 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 Pogil Activities For Ap Biology Membrane Structure Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Pogil Activities For Ap Biology Membrane Structure Worksheet Answers in Specific Contexts
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Pogil Activities For Ap Biology Membrane Structure Worksheet Answers.

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