

## **Membrane Structure and Function POGIL Answer key**

### **Exam 2023**

How many different types of molecules are shown in Model 1? - ANSWER two: circle and triangle

Number of triangles and circles on each side of membrane? - ANSWER 14 triangles on left: 0 triangles on right

12 circles on left: 13 circles on right

Which shape is larger? - ANSWER triangle

Describe direction of movement of molecules in Model 1. - ANSWER Random-all directions

Which molecules are able to pass through the semi-permeable membrane? - ANSWER Circles can fit through the gaps due to small size and are nearly equally distributed on both sides of the membrane.

Would you expect the Model 1 system to change over time? - ANSWER No. The triangles will remain on the left side because they are too big to pass through membrane. Circles will remain evenly distributed on both sides due to size and random movement.

What two major types of biological molecules compose the majority of the cell membrane in Model 2? - ANSWER Phospholipids and membrane spanning proteins.

How many different protein molecules are found in Model 2? - ANSWER Four. Two small surface proteins and 2 membrane spanning proteins.

What is the difference between the position of the surface proteins and the membrane-spanning proteins? - ANSWER Surface proteins do not span the cell membrane.

When a carbohydrate chain is attached to a protein, what is the structure called? - ANSWER Glycoprotein; glyco = carbohydrate

When a carbohydrate is attached to a phospholipid, what is the structure called? - ANSWER Glycolipid

# Membrane Function Pogil Answers

**Ying-Ying Zheng**



## Membrane Function Pogil Answers:

**Control of Membrane Function: short-term and long-term** J.M. Ritchie, P. Magistretti, L. Bolis, 2012-12-02 A critical factor in cell to cell interactions is the presence in the cell membrane of highly specific ion channels controlled by specific receptors that are bound to and activated by a gamut of external hormones and neurotransmitters Through both this action on ion channels and action on other membrane components such as G proteins extracellular signals alter intracellular events usually through the mediation of second messengers and so provide the basis for the transduction mechanism connecting extracellular signals with intracellular effectors This volume deals with the various ways that such membrane function is controlled *The Molecular Basis of Membrane Function* Society of General Physiologists, 1969 The Structural Basis of Membrane Function Youssef Hatafi, 2012-12-02 The Structural Basis of Membrane Function is a documentation of an international symposium of the same title This book serves as a collection of the significant articles pertaining to the field of membrane research It is composed of seven parts where the first and last parts are articles contributed by scientific authorities The book generally discusses the membrane research and this study's relevance to the society Then the book specifically looks into membrane features including its structure processes in its functions and types Some of the specific topics included in the discussion of each part are phospholipases and monolayers used in studies of membrane structure molecular aspects of active transport and electron transfer in energy transducing membranes The book also explains the two functions in common of biological membranes synaptic receptor proteins and liver microsomal membranes The scope of this book is broad and helpful to many fields of science It will be of great benefit to students teachers scientists and researchers in the field of biochemistry biology molecular biology chemistry pharmacology and cellular biology among others *The Molecular Basis of Membrane Function* a Symposium (1968: North Carolina) Society of General Physiologists, 1969

**PreTest Key Concepts: Membrane function** John R. Thornborough, 1995 **Biological Membranes** Roger Harrison, 2013-11-22 to the Second Edition RESEARCH INTO MEMBRANE ASSOCIATED PHENOMENA HAS EXPANDED VERY greatly in the five years that have elapsed since the first edition of Biological Membranes was published It is to take account of rapid advances in the field that we have written the present edition There is now general acceptance of the fluid mosaic model of membrane structure and of the chemiosmotic interpretation of energetic processes and our attention has shifted from justifying these ideas to explaining membrane functions in their terms Much more information has become available concerning the role of the plasma membrane in the cell's recognition of and response to external signals and this is reflected in the increased coverage of these topics in the book The general form of the book remains the same As before a list of suggested reading sub divided by chapter is provided and this has been expanded to include a greater proportion of original papers The book is still primarily designed as an advanced undergraduate text and also to serve as an introduction for post graduate workers entering the field of membrane research We have taken cognizance of the comments of many

reviewers colleagues and students on the first edition and thank them for their contributions In particular we wish to acknowledge our colleagues R Eisenthal G D Holman D W Hough and A H Rose Dr C R Sawyer,1995 *Membrane Function* Douglas Sawyer,1995 *The Molecular Basis of Membrane Function* Society of General Physiologists,1969 Includes bibliographical references *Probes and membrane function* Britton Chance,1971 **Exploring the cell membrane: conceptual developments** ,1995 **The structural Basis of membrane function** ,1976 **Structure and Function of Biological Membranes** Lawrence I. Rothfield,2014-06-28 Structure and Function of Biological Membranes explains the membrane phenomena at the molecular level through the use of biochemical and biophysical approaches The book is an in depth study of the structure and function of membranes It is divided into three main parts The first part provides an overview of the study of the biological membrane at the molecular level Part II focuses on the detailed description of the overall molecular organization of membranes The third part covers the relationship of the molecular organization of membranes to specific membrane functions discusses catalytic membrane proteins presents the role of membranes in important cellular functions and looks at the membrane systems in eukaryotic cells Biochemists cell physiologists biologists researchers and graduate and postdoctoral students in the field of biology will find the text a good reference material The Unity and Diversity of Membrane Function Gerhard H. Giebisch,J. F. Hoffman,1994-01-01 **Biophysical Chemistry of Membrane Functions** Arnošt Kotyk,Dr. Karel Janáček,Jiří Koryta,1988 The book provides balanced information on the biology chemistry and physics of membrane properties and their specific functions in the flow of material transduction of energy and transformation of signals Up to date specific data on these various properties and functions are contained in the book thus making it a reference text on such subjects as membrane composition membrane structure all known systems of transport all different mechanisms of energy transduction and on selected types of signal transformation **Interactions Between Components in Biological Membranes and Their Implications for Membrane Function** Gheorghe Benga,1984 *Molecular Specialization and Membrane Function* A.K. Solomon,M. Karnovsky,1978 **The Molecular Basis of Membrane Function** ,1969 **The Molecular Basis of Membrane Function** Society Of General Physiologists,1967 **The Membranes of Cells** Philip Yeagle,1987-07-28 The lipids of cell membranes Membrane models and model membranes Lipid properties in membranes Cholesterol and cell membranes Membrane proteins Lipid protein interactions in biological membranes and reconstitution of membrane function Transport Membrane fusion The metabolism of membrane lipids Membrane biogenesis **Molecular Specialization and Symmetry in Membrane Function** Manfred L. Karnovsky,Arthur K Solomon,1978

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