

## **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

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**Membrane Structure and Function** E. Edward Bittar,1980      **Membrane Structure and Function. Vol.6 E.**  
Edward Bittar,1984      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

Concepts of Membrane Structure Ronald Aloia,2012-12-02 Membrane Fluidity in Biology Volume 1 Concepts of  
Membrane Structure covers membrane properties influenced by alterations in membrane lipid compositions and or other  
organizational parameters that are encompassed by the term fluidity This book is composed of eight chapters that discuss  
significance of fluidity changes in both normal and pathological cellular functions This book starts by describing membrane  
structural organization and composition and arrangement of the molecular components of cell membranes This is followed by  
discussions on structural properties of lipids and role of nonbilayer lipid structures in membrane fusion The methodological  
approaches in study of cellular membrane structural diversity and fluid mosaic model for accurate representation of  
membrane fluidity are also discussed This volume then describes the phenomenon of reversed or negative membrane images  
as viewed with transmission electron microscope Chapters 6 and 7 explain the interaction of cytochrome P 450 with  
phospholipids and proteins in the endoplasmic reticulum and steps in the derivation of membrane structure and packing  
principles Finally the concluding chapter focuses on the membrane of the human red blood cell and presents relatively  
simple arguments concerning its physical properties The book will serve as a primary source for research scientists and  
teachers interested in cellular membrane fluidity phenomena      **Membrane Structure and Function. Vol. 3** E. Edward  
Bittar,1980      *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      A Survey of Molecular Aspects of Membrane Structure and Function Gheorghe  
Benga,1985 Band 1      **Membrane Structure and Function** R.D Klausner (Kempf),J. van Renswoude,1987

**Membranes: Structure and Function** Julio Rodríguez Villanueva,F. Ponz,1970      **Structure and Properties of Cell  
Membrane Structure and Properties of Cell Membranes** Benga,2017-11-29 This book provides in depth presentations in  
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transport of solutes between intracellular compartments membrane fusion and membrane biogenesis

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