

Membrane Function

How does the cell membrane control movement of materials?

Why?

The membrane is critical to the maintenance of homeostasis in living organisms. The cell membrane separates the cell from the external environment and plays a critical role in regulating movement of material in and out of the cell. Additionally, eukaryotic cells are made complex by the presence of internal membranes that form organelles, so the cells may become specialized. These organelle membranes create compartments within the cell that can do specific functions.

Model 1 – Types of Ions and Molecules in a Cell

Type 1 Ions	Type 2 Molecules	Type 3 Molecules	Type 4 Molecules
Potassium: K^+	Glucose: 	Water: 	Molecular oxygen (O_2): $O=O$
Sodium: Na^+		Urea: 	Carbon dioxide (CO_2): $O=C=O$
Calcium: Ca^{2+}			
Chloride: Cl^-			
Polar	polar	Polar	nonpolar
small	large	small	small

1. Consider the ions and molecules in Model 1.
 - a. Identify at least two substances that would need to move into a cell to maintain homeostasis.

The two substances that would need to move into a cell to maintain homeostasis are.. Oxygen, water, sugar, and ions.

- b. Briefly explain why the cell needs each of the substances you identified in part a.

Oxygen, water, and glucose are necessary for cellular respiration; and ions for energy.

2. Consider the ions and molecules in Model 1.
 - a. Identify at least two substances that would need to move out of a cell to maintain homeostasis.

Carbon dioxide, water, ions, and urea would need to come out of the cell.

- b. Briefly explain the source of the molecules you identified in part a.

Water and carbon dioxide are a byproduct of cellular respiration

3. Complete the table by labeling the types of substances as polar or nonpolar and large or small.



Membrane Function Pogil Answer Key

DP Hallahan



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Membrane Function Douglas Sawyer,1995 PreTest Key Concepts: Membrane function John R. Thornborough,1995
The Molecular Basis of Membrane Function ,1969 *The Molecular Basis of Membrane Function* Society Of General
Physiologists,1967 **Probes of Structure and Function of Macromolecules and Membranes Volume 1** Britton
Chance,Chaun-pu Lee,J. Kent Blasie,1971 **Membrane Structure and Function** E. Edward Bittar,1980 **Functions of**
Biological Membranes M. Davies,2013-11-21 **Molecular Basis of Membrane Function** D.C. Tosteson,The Society of
General Physiologists,1969 Membrane Structure and Function W. Howard Evans,John M. Graham,1989 This study
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Structure and Function Pablo V. Escribá,2014 *Membrane Analysis* Dr John Graham,Joan Higgins,2020-08-13 Membrane
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web when is principal appreciation day principal appreciation day is usually celebrated on may 1st your school might honor yours on a different day so be sure to check the history of school principals day national school principals day can actually be traced back to the national association of elementary school principals naesp which was

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web wed may 1st 2024 school principals day organize an event or write a card to show your appreciation for the educators that run our schools school principals work hard to make kids lives and educations better have we missed something you can have great teachers but if you don t have a good principal you won t have a good school eli broad

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web that s why someone has gone ahead and created a holiday to thank them this holiday falls on may 1st and is known as school principals day this is a good day to show your favorite school principal the appreciation they deserve the

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