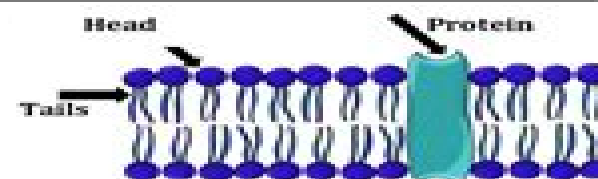


Task 1: Inside the Cell Membrane Video

Use any link below to watch the Inside the Cell Membrane video by the Amoeba Sisters. As you watch, answer the following questions. Full URL: <https://www.youtube.com/watch?v=gBCVVszQQNs&vl=en>
 Tiny URL: <https://tinyurl.com/vyxby4la>

1. What does the term *semi-permeable* mean? It means that some materials can move through the membrane, but other materials cannot move through the membrane.
2. True or False? - All types of cells have a cell membrane. True
3. Which part of a phospholipid is hydrophilic? Polar head
4. What does the term *hydrophilic* mean? Likes water
5. Which part of a phospholipid is hydrophobic? Non-polar tails
6. What does the term *hydrophobic* mean? Does not like water
7. What is the significance of the fluid nature of the fluid mosaic model? It gives the cell membrane flexibility
8. What is the role of cholesterol in a phospholipid bilayer? Cholesterol keeps the phospholipids from becoming too close in cool temperatures and too far away from each other in warm temperatures
9. Where are peripheral proteins found? Outside on the membrane
10. Where are integral proteins found? Within the phospholipid bilayer
11. Which type of protein allows materials in and out of the cell? Integral proteins
12. Why the roles of glycoproteins and glycolipids? Can identify the cell as belonging to a certain organism and cell signaling
13. Label the phospholipid tail, phospholipid head, and the protein in the diagram. Is the protein shown in the diagram a peripheral protein or integral protein? How do you know?
Integral protein because it is found inside the phospholipid bilayer.
14. Why are the heads of the phospholipid bilayer located on the outside of the membrane? They are hydrophilic and polar

**Task 2: Cell Membrane Interactive**

Use any link below to complete the Cell Membrane: Just Passing Through interactive activity on the PBS Learning Media website. Click on the names of the parts of this interactive to learn more about each one. Full URL: <https://pbslm-contrib.s3.amazonaws.com/WG8H/conv19/tdc02-int-membraneweb/index.html>
 Tiny URL: <https://tinyurl.com/y3pgv6td>

15. What is the role of the ion channel? To allow ions to pass through the cell membrane
16. What is the role of the protein pump? To use energy released within the cell to force substances through the cell membrane
17. What is the role of the aquaporin? To allow water to pass through the cell membrane
18. How does oxygen and carbon dioxide move across the cell membrane? Through the phospholipid bilayer
19. How does potassium move across the cell membrane? Through the ion channel
20. How does sodium move across the cell membrane? Through the protein pump

Virtual Investigation Transport Across Cell Membrane

Webquest Answers

IM Harris



Virtual Investigation Transport Across Cell Membrane Webquest Answers:

Transport And Diffusion Across Cell Membranes Wilfred Stein, 2012-12-02 Transport and Diffusion across Cell Membranes is a comprehensive treatment of the transport and diffusion of molecules and ions across cell membranes This book shows that the same kinetic equations with appropriate modification can describe all the specialized membrane transport systems the pores the carriers and the two classes of pumps The kinetic formalism is developed step by step and the features that make a system effective in carrying out its biological role are highlighted This book is organized into six chapters and begins with an introduction to the structure and dynamics of cell membranes followed by a discussion on how the membrane acts as a barrier to the transmembrane diffusion of molecules and ions The following chapters focus on the role of the membrane s protein components in facilitating transmembrane diffusion of specific molecules and ions measurements of diffusion through pores and the kinetics of diffusion and the structure of such pores and their biological regulation This book methodically introduces the reader to the carriers of cell membranes the kinetics of facilitated diffusion and cotransport systems The primary active transport systems are considered emphasizing the pumping of an ion sodium potassium calcium or proton against its electrochemical gradient during the coupled progress of a chemical reaction while a conformational change of the pump enzyme takes place This book is of interest to advanced undergraduate students as well as to graduate students and researchers in biochemistry physiology pharmacology and biophysics *Active Transport through Animal Cell Membranes* P.G. LeFevre, 2012-12-06 **Transport Across Single Biological Membranes**, 1979

Cell Membrane Transport Z.I. Cabantchik, R. Deves, S. Peren, D.L. Yudilevich, 2013-06-29 Experimental science is a complicated creature At the head there is a Gordian knot of ideas and hypotheses behind is the accumulated mass of decades of research Only the laboratory methods the legs which propel science forward remain firmly in touch with the ground Growth however is uneven dinosaurs develop by solid means to give a vast body of results but few ideas Others sprint briefly to success with brilliant though ill supported ideas The problems which this book addresses is to maintain an organic unity between new ideas and the current profusion of innovative experimental tools Only then can we have the framework on which our research thoughts may flourish The contributors are outstanding scientists in their respective fields and they record here in a clear manner the methodology with which they perform their experiments They also illustrate some of their most exciting findings In all chapters the emphasis is on the critical analysis of the methodology which is often avoided in refereed Journals These techniques are explained in this book in adequate detail Each chapter is extensively referenced and contains the most recent material available from author s laboratory at the time of going to press **Active Transport Through Animal Cell Membranes** Paul G.. Lefevre, 1955 **A Model for Passive Transport Across the Cell Membrane of Excitable Tissue** Jack Fromkin, 1974 **Tests of Theories of Transport Across Cell Membranes Using Inhibitors of the Choline and Glucose Transport Systems of the Human Red Cell** P. A. W. Edwards, 1973

Transport across biological membranes Milan Hofer, 1981

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