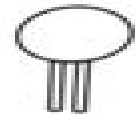


Cell Membrane and Transport Coloring

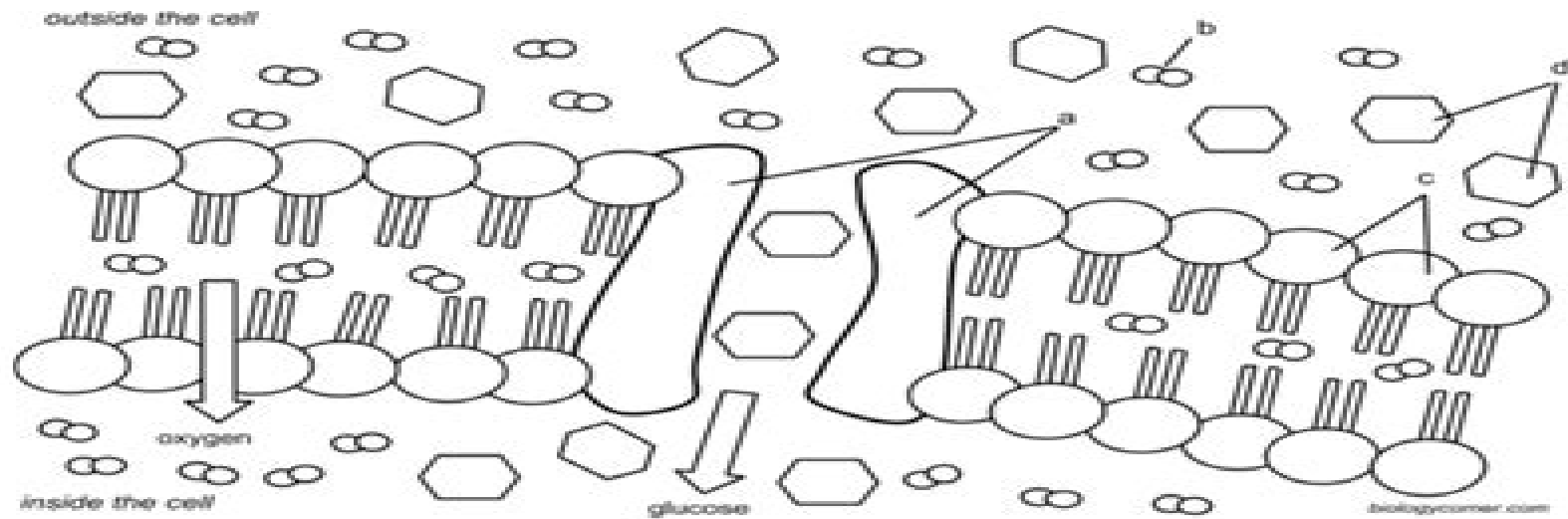
The cell membrane is responsible for moving materials into and out of the cell. There are two types of transport that can occur across the membrane: passive transport and active transport. **Passive transport** does not require energy and includes the processes of osmosis, diffusion and facilitated diffusion.

The graphic shows the **phospholipid bilayer** and **embedded proteins**, the two main components of the cell membrane. Phospholipids are made of hydrophilic (water-loving) heads and hydrophobic (water-hating) tails. The phospholipids are arranged opposite to each other, with the heads pointing toward the cell's environment and the tails aligning to each other. Color all the phospholipids (c) of the membrane red. ☐



Some small molecules, like oxygen, can move right across the phospholipid bilayer through a process called **diffusion**. Diffusion occurs when molecules move from an area of high concentration to an area of low concentration. Color the oxygen molecules (b) green ☐.

Some molecules are too large to pass through the membrane. Molecules like glucose, which is a sugar molecule, must use special proteins embedded in the membrane to move into the cell. These proteins are called **channel proteins**, and they provide an opening, like a door, for large molecules to pass. Glucose will also move from areas of high concentration to low concentration, but because it needs the help of a protein, the process is called **facilitated diffusion**. Color all the glucose molecules (d) purple ☐. Color the channel protein (a) yellow ☐.



Virtual Investigation Transport Across Cell Membrane Worksheet

Wilfred Stein



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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 *The Movement of Molecules Across Cell Membranes* Wilfred D. Stein, 1967 *Transport Across Single Biological Membranes*, 1979 **Transport Across Single Biological Membranes** D.C. Tosteson, 2012-03-23 This second Volume in the series on Membrane Transport in Biology contains a group of essays on transport across single biological membranes separating the inside and outside of cells or organelles We have not attempted to include material on all types of plasma and intracellular membranes but rather have emphasized structures which have been studied relatively thoroughly Four chapters describe transport of different types of molecules and ions across the plasma membranes of mammalian red cells Two essays concern the excitable membranes of nerve and muscle cells while the remaining four chapters treat transport across several types of intracellular membranes Water makes up more than two thirds of the mass of most living cells The transport of water between the inside and outside of cells and organelles is important for the function of these structures As a result of investigations in many laboratories over the past four decades our picture of the water permeability of the red cell membranes is rather detailed when compared to the water permeability of other biological membranes In Chapter 1 R I Macey describes this picture and also considers the permeability of red cell membranes to non electrolytes including metabolic substrates such as sugars amino acids purines and nucleosides Membrane Transport, 2000-06-15 Membrane Transport is targeted towards researchers with an interest in the mechanism of solute transport across biological membranes Its scope is broad ranging from the techniques required to study transport itself through the expression purification and reconstitution of transporters to techniques for investigation of their structures As such it not only proves the necessary technical grounding for newcomers to the field but should also be of value to old hands wishing to get up to date with recent developments in these areas While some of the approaches described require sophisticated equipment e g a stopped flow fluorimeter most of the protocols can be implemented in any well found laboratory Preparation of this volume comes at a time when a result of genome sequencing our knowledge of membrane transporter sequences is far outstripping our understanding of their molecular mechanisms Our hope is that this book will help future researchers to redress this imbalance A Model for Passive Transport Across the Cell Membrane of Excitable Tissue Jack Fromkin, 1974 **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 P.G. LeFevre,2012-12-06

Transport across biological membranes Milan Hofer,1981

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of the Choline and Glucose Transport Systems of the Human Red Cell P. A. W. Edwards,1973

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