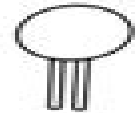


Cell Membrane and Transport Coloring

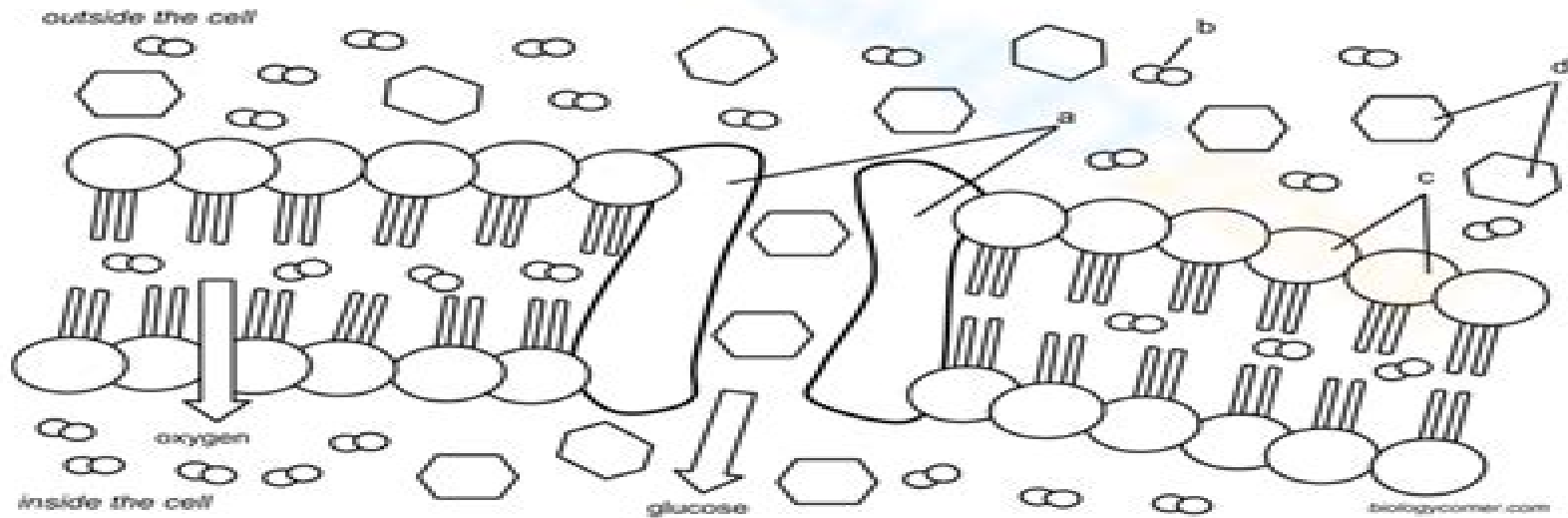
The cell membrane is responsible for moving materials into and out of the cell. There are two types of transport that can occur across the membrane: passive transport and active transport. **Passive transport** does not require energy and includes the processes of osmosis, diffusion and facilitated diffusion.

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 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

**Z.I. Cabantchik, R. Deves, S. Peren, D.L.
Yudilevich**



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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 *A Model for Passive Transport Across the Cell Membrane of Excitable Tissue* Jack Fromkin, 1974 **Membrane Transport** Stephen A. Baldwin, 2000 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 **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 **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 **Active Transport Through Animal Cell Membranes** Paul G. Lefevre, 1955 Intracellular Transport Katherine Brehme Warren, 2014-05-12 Intracellular Transport is a collection of papers that examines the processes of and the mechanisms underlying intracellular transport One

paper describes that all active transport processes in the amoeba are intracellular and depend on dynamic transformations of membrane into cytoplasm and of cytoplasm into membrane Another paper discusses the kinetics of membrane transport of which the phenomena of counterflow can become a mobile carrier system The paper notes that the specific transport properties of membranes are conferred by the proteins of the surfaces that are grouped as macromolecular complexes probably similar to those of enzymes One paper describes the concept of parametric pumping an oscillation driven separation process as a possible model for active transport in biological cells Another paper compares the fine scale diffusion effects that happen in a mixture without large scale concentration gradients and where the effect are on a large scale The homogenous kinetic law can be used in the large scale situation the law already can account for any of the fine scale diffusion effects The paper notes that without large scale concentration gradients the transport event is from a local region to a nearby reaction site only Where the effects are on a large scale the diffusion results in a gross transport of over distances larger than molecular dimensions This collection can prove useful for mathematicians cellular biologists physical chemists physiologists electron microscopists geneticists and engineers

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