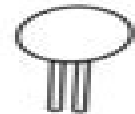


Cell Membrane and Transport Coloring

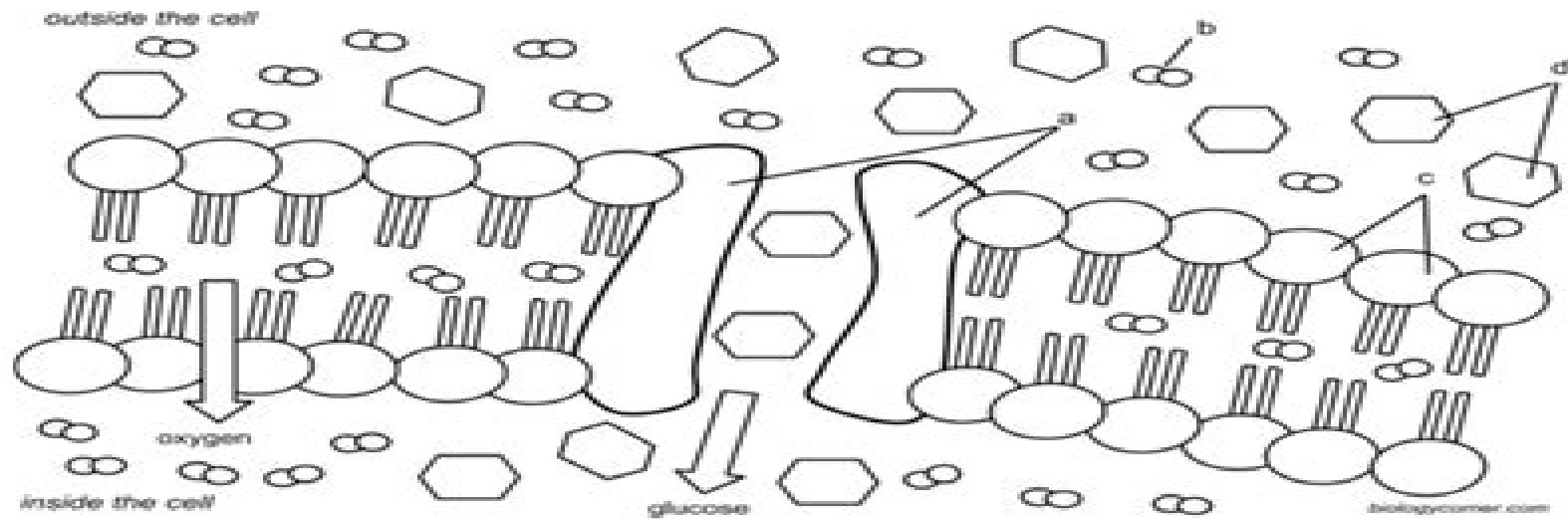
The cell membrane is responsible for moving materials into and out of the cell. There are two types of transport that can occur across the membrane: passive transport and active transport. **Passive transport** does not require energy and includes the processes of osmosis, diffusion and facilitated diffusion.

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. ☐



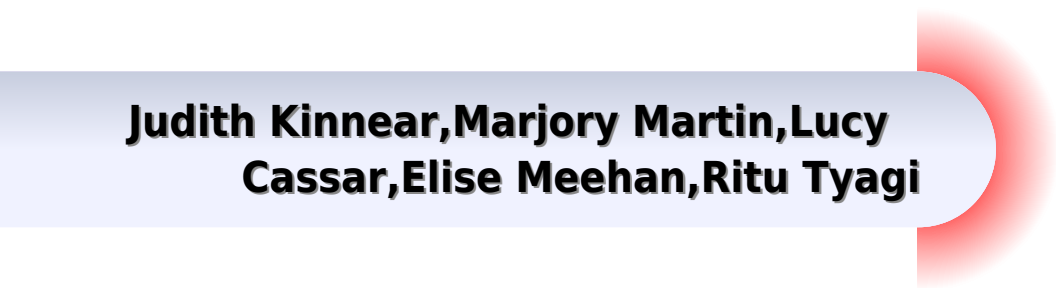
Some small molecules, like oxygen, can move right across the phospholipid bilayer through a process called **diffusion**. Diffusion occurs when molecules move from an area of high concentration to an area of low concentration. Color the oxygen molecules (b) green ☐.

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

**Judith Kinnear, Marjory Martin, Lucy
Cassar, Elise Meehan, Ritu Tyagi**



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Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs [Pharmacology and the Nursing Process](#) Linda Lane Lilley, Robert S. Aucker, 2001 Pharmacology and the Nursing Process provides the most up to date clinically relevant information on pharmacology and nursing in a consistent format that is appealing understandable and practical **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Archives of Pathology & Laboratory Medicine** ,2007 **Massage Therapy** Susan G. Salvo, 2007 The 3rd ed of this text gives you everything you need to learn and apply the basic principles of massage therapy with ease It contains a DVD that brings techniques and procedures to life complete coverage of the latest emerging therapy options and target groups and new materials to help prepare for exams *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 *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

Intracellular

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

Animal Cell Membranes Paul G.. Lefevre,1955

Molecular Mechanisms for Water Transport Across Cell Membranes

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