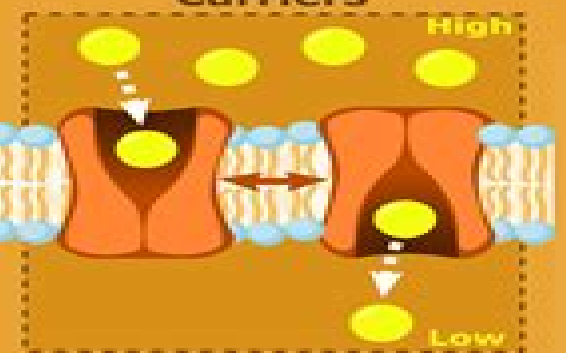
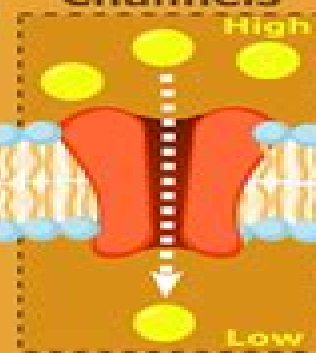


No membrane proteins are involved

DIFFUSION

Molecules are transported down their electrochemical gradients

Electrochemical gradient



Mediated by the integral membrane proteins

FACILITATED DIFFUSION

PASSIVE

Passive transport is driven by existing gradients, and so doesn't require external energy

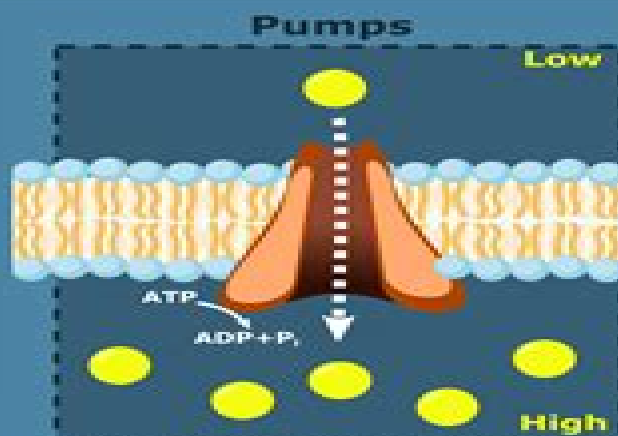
MEMBRANE TRANSPORT

Molecules are transported against their electrochemical gradients

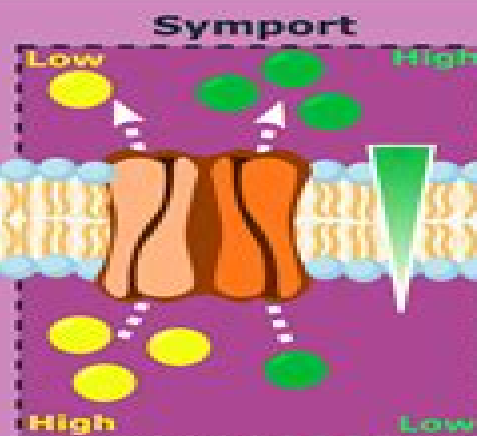
ACTIVE

Active transport does require metabolic energy input

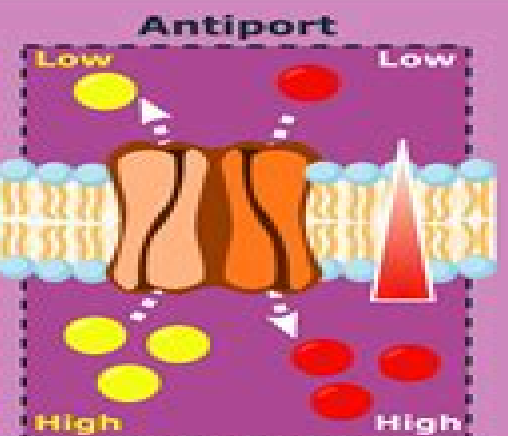
PRIMARY



Electrochemical gradient



Symport



Antiport

Membrane Transport In Biology

D.C. Tosteson



Membrane Transport In Biology:

Transport Across Single Biological Membranes D.C. Tosteson, 2012-12-06 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 Daniel C. Tosteson, 2013-05-27 This is a fascinating collection of personal accounts which is a must read for anyone interested in membrane transport or the history of the development of the current picture of membrane transport physiology This delightful book could serve variously as a history for investigators and historians or as a textbook for advanced students No biology or medical library should be without it 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

Transport Across Single Biological Membranes L. Beaugé, 1979 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 in Biology Gerhard H. Giebisch, D. C. Tosteson, Hans H. Ussing, 1978 **Membrane Transport in Biology** James A. Schafer, Hans H. Ussing, Poul Kristensen, Gerhard H. Giebisch, 2013-03-07 Well over one decade has passed since the appearance of the original four volumes of Membrane Transport in Biology Since the publication of the last volume there have been spectacular advances in this field These advances have been in part the result of the application of exciting new methodologies and in part the result of new insights into the regulation and integration of transport processes This volume as well as a sixth volume which is in preparation are intended to cover key areas in which the development has been particularly striking For many years the trend in studies of membrane transport had been that of increasing specialization with regard to the transporter of interest and of the cell or tissue studied This trend was supported by the enormous number of publications directed at understanding the cellular physiology of specific organ systems and tissues and also by the fact that different tissues often seemed to react so differently to the same conditions that mechanisms unique to each appear to be at play One of the happy developments in recent years has been the realization that this apparent disparity of behaviors in different tissues is based on varying combinations of a limited number of transport mechanisms all mediated by the same or similar proteins Some of these transport proteins have already been isolated and analyzed with respect to amino acid sequence whereas others are just entering this phase

Transport Across Multi-Membrane Systems G. Giebisch, 2012-12-06 The contributions of this volume are concerned with transport phenomena in multimembrane systems and in simple epithelia In addition to the very substantial progress that has been made in the area of transport of fluid and solutes across artificial model membranes in vitro and across simple symmetrical cell membranes much has been learned from studies of transport phenomena in multi membrane systems of higher complexity to be reviewed in this volume It should be recalled that many of the fundamental conceptual and

methodological problems of transport physiology have been successfully approached and defined by studying simple epithelia in vitro and that the direction that research has taken has been affected in a major way by the cellular transport models that have evolved from this approach. Since then striking progress has been made in several areas. Not only have we been witnessing a keen and productive interest in the relationship between fine structure and transport behavior in multicomponent systems but significant advancements have also been made in defining individual active and passive transport operations in analysing cell ion activities and transport pools and in describing the differences in transport functions that underly the membrane asymmetry and cell polarization of cells subserving directional transport.

Molecular Biology of Membrane Transport Disorders Stanley G. Schultz, 1996-06-30 The scope and depth of this book are excellent with in depth reviews that will be of benefit to both novice and expert alike. An excellent text worthy of a place on any self respecting membranologists book shelf and I recommend it highly. Trends in Biochemical Sciences.

Molecular Biology of Membrane Transport Disorders comprises the first compilation of papers on the important membrane transporters and ion channels with an emphasis on membrane transport disorders. Internationally recognized leaders in the field provide a thorough understanding of the pathogenesis of clinical conditions that involve derangements in membrane transport processes at the molecular level. This work is a valuable resource for medical and graduate students and researchers in the biomedical sciences as well as academic physicians in cardiology, nephrology, neurology and gastroenterology.

Membrane Transport Arnost Kotyk, 2012-12-06 Not many years ago problems of membranes and transport attracted the attention of but a few dozen enthusiasts mainly physiologists who recognize the significance of membranes for the stabilization of the general steady state of organisms. The first symposium organized some fifteen years ago could boast of the attendance of perhaps fifty scientists; the remaining fifty were not yet sure that membranes was the topic of their choice ranging in specialization from physical chemistry to bacterial genetics who clairvoyantly decided to study what now has become the number one subject at most congresses of biophysics, physiology and even biochemistry and microbiology. As is the case with many rapidly developing fields the interest in membranes and transport seems to be growing out of bounds and the whole field of membrane biology interdisciplinary as it is has penetrated into the realms of a number of branches of physics, chemistry and biology. Its subject is primarily biological and although much has been done in the world to increase the exactness of biology over the past thirty years one cannot strive for a rigorous mathematical description of biological phenomena since as M. H.

Transport Across Single Biological Membranes D.C. Tosteson, 1979-01-01 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 *Cell Membrane Transport* Arnost Kotyk, 2012-12-06 TO THE SECOND EDITION When preparing the manuscript for the original edition of this book we were only partly aware of the pace at which the field of membrane transport was developing and at which new ideas as well as new techniques would be applied to it The fact is that some of the chapters are now outdated e g the one on the molecular aspects of transport and many others require revision in the light of new information that has appeared in the past five years However it is also true that we overemphasized in the first edition certain points that now appear less important and underestimated the impact of certain others that have since assumed a position among the most forcefully discussed topics of membrane research In making amends it was thus thought useful to include the discussion of these latter problems both in the theoretical and in the comparative sections and on the other hand to omit some of the less topical subjects There was a different reason for rewriting the section on kidney and for dropping the section on mitochondria The help of an expert nephrologist was enlisted for improving chapter 24 while it was decided that mitochondria represent a special field both conceptually being only subcellular particles and methodologically more indirect estimation techniques being involved than with whole cells or tissues and that more adequate information can be found in treatises specializing in work with mitochondria *Channels, Carriers, and Pumps* Wilfred D. Stein, 2012-12-02 For students as well as researchers this book describes the exciting new advances in the molecular biology of transport proteins and integrates this information with transport kinetics function and regulation Experimental data are linked with theory Provides an introduction to the properties of transport proteins channels carriers and pumps Presents up to date information on the structure of transport proteins and on their function and regulation Includes introductions to transport kinetics and to the cloning of genes that code transport proteins Furnishes a link between the experimental basis of the subject and theoretical model building

Concepts and Models D.C. Tosteson, 1978-12-01 This Volume forms the cornerstone of this series of four books on Membrane Transport in Biology It includes chapters that address i the theoretical basis of investigations of transport processes across biological membranes ii some of the experimental operations often used by scientists in this field iii chemical and biological properties common to most biological membranes and iv planar thin lipid bilayers as models for biological membranes The themes developed in these chapters recur frequently throughout the entire series Transport of

molecules across biological membranes is a special case of diffusion and convection in liquids. The conceptual frame of reference used by investigators in this field derives in large part from theories of such processes in homogeneous phases. Examples of the application of such theories to transport across biological membranes are found in Chapters 2 and 4 of this Volume. In Chapter 2 Sten Knudsen emphasizes a statistical and molecular approach while in Chapter 4 Sauer makes heavy use of the thermodynamics of irreversible processes. Taken together these contributions introduce the reader to the two sets of ideas which have dominated the thinking of scientists working in this field. Theoretical consideration of a more special character are also included in several other Chapters in Volume I. For example Ussing Chapter 3 re works the flux ratio equation which he introduced into the field of transport across biological membranes in 1949.

An Introduction to Membrane Transport and Bioelectricity John H. Byrne, Stanley G. Schultz, 1994

Transport Across Single Biological Membranes, 1979

Cell Biology and Membrane Transport Processes, 1994-05-24

This volume brings together contributors from several different fields of cell biology, physiology and molecular biology. The common thread that runs through all of the work presented is that cell processes regulate the activities of membrane transport proteins and classes of membrane transport proteins participate in a number of critical cell phenomena. This volume is unique in covering three different members of the ATP Binding Cassette family MDR, CFTR and STE6 in one place as well as in including structure and function analysis of the sodium pump in the same forum where its cell biology is considered. The book will appeal to a broad range of biologists with interests in membrane transport, membrane biology, cell biology and sorting.

Transport Organs G. Giebisch, 1979-07-01

With contributions by numerous experts

Basic Principles of Membrane Transport S. G. Schultz, 1980-05-30

1996, 0000000000000000 *Concepts and Models* D.C. Tosteson, 2012-12-06

This Volume forms the cornerstone of this series of four books on Membrane Transport in Biology. It includes chapters that address i) the theoretical basis of investigations of transport processes across biological membranes ii) some of the experimental operations often used by scientists in this field iii) chemical and biological properties common to most biological membranes and iv) planar thin lipid bilayers as models for biological membranes. The themes developed in these chapters recur frequently throughout the entire series.

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