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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.

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membrane dynamics and asymmetry, classification and conformation of membrane proteins, lipid- protein interactions and membrane transport. Individual chapters are also devoted to the role of cholesterol, membrane fusion, metabolism of ... A Practical Approach Edited by J.B.C. Findlay and W.H. Evans IRL Press; Oxford, 1987 xv ...

~~Biological membranes: A practical approach~~

(A) Gating membrane in its open state, where the AAO membrane with ordered one-directional pores allows rapid mass transfer to the gas-liquid interface. The top surface of the membrane is rendered...

'Stephen A. Baldwin has performed a service to the scientific community in compelling these technical approaches to membrane transport studies' Journal Cell Science Membrane Transport contains a collection of experimental protocols for the study of proteins responsible for the transport of small molecules across biological membranes. It includes information on the latest methods for production of transport proteins by recombinant DNA technology, and for their investigation by techniques accessible to any well-found laboratory.

Research on ion channels now crosses most traditional subject boundaries and involves a wide range of approaches including some of the latest techniques in biochemistry and molecular biology, as well as advanced electrophysiology and biophysics. This volume describes up-to-date practical information for some of the most essential and exciting approaches currently available. Topics covered include patch-clamp recording, concepts of single-channel analysis, channel

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cloning, channel structure, and signal transduction systems. This will be an invaluable source of practical information for researchers from a variety of academic backgrounds, whose areas of interest might include membrane biology, membrane ion transport, and membrane transport proteins.

Many investigations into cell structure and function require the isolation of a particular subcellular particle. Subcellular Fractionation covers the subject comprehensively, describing in detail the wide range of separation techniques and characterization procedures for all the major subcellular organelles: nuclei, mitochondria, chloroplasts, peroxisomes, and the membrane systems of the exocytic and endocytic pathways. Importantly, the text also describes the isolation of chromosomes, nucleoli and nucleoprotein complexes, and key procedures related to the analysis of these particles, such as the labelling of ligands, kinetic analysis of their internalization, and electron microscopy.

An Introduction to Biological Membranes: From Bilayers to Rafts covers many aspects of membrane structure/function that bridges membrane biophysics and cell biology. Offering cohesive, foundational information, this publication is valuable for advanced undergraduate students, graduate students and membranologists who seek a broad overview of membrane science. Brings together different facets of membrane research in a universally understandable manner. Emphasis on the historical development of the field. Topics include membrane sugars, membrane models, membrane isolation methods, and membrane transport.

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 provides 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.

Toxicology – the study of the adverse effects of chemicals on living organisms is the cornerstone to all aspects of chemical safety and knowledge of the subject is needed in a wide spectrum of fields from the chemical industry to medicine, emergency services, forensics, and regulatory science. Toxicology involves the study of symptoms, mechanisms, treatments and detection of poisoning ... especially the poisoning of people. The many problems arising from a poor understanding of toxicology and its applications in hazard communication and chemical safety motivated the author's training courses and webinars, leading to this valuable book. Providing a practical and accessible guide, A Practical Guide to Toxicology and Human Health Risk Assessment enables readers to quickly build up knowledge and understanding of toxicology and its use in hazard identification, which is a fundamental part of chemical risk assessment. The book also covers current toxicological testing strategies and the use of physicochemical test data in hazard identification and exposure assessment. Examples are provided throughout the book to highlight important issues along with a summary of the key points that have been covered in each of the respective chapters. The book concludes with a listing of online resources on toxicology and risk assessment.

While the genomic revolution has quickly led to the deposit of more than 30,000 structures in the protein data bank (PDB), less than one percent of those contributions represent membrane proteins despite the fact that membrane proteins constitute some 20 percent of all proteins. This discrepancy becomes

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significantly troublesome when it is coupled with the fact that 60 percent of current drugs are based on targeting this group of proteins, a trend that does not seem likely to reverse. Structural Genomics on Membrane Proteins provides an excellent overview on novel research in bioinformatics and modeling on membranes, as well as the latest technological developments being employed in expression, purification, and crystallography to obtain high-resolution structures on membrane proteins. This cutting-edge work also explains the difficulties facing researchers—both technical and ethical—that have slowed the process. Structural Genomics on Membrane Proteins provides researchers with an unprecedented look at the novel technologies that will ultimately allow them to conquer the last frontier in structural biology, leading to accelerated breakthroughs in drug discovery.

Pathophysiology: A Practical Approach, Third Edition employs a concept-based approach to teaching nursing students the complex, yet essential topic of pathophysiology. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

With a detailed analysis of the mass transport through membrane layers and its effect on different separation processes, this book provides a comprehensive look at the theoretical and practical aspects of membrane transport properties and functions. Basic equations for every membrane are provided to predict the mass transfer rate, the concentration distribution, the convective velocity, the separation efficiency, and the effect of chemical or biochemical reaction taking into account the heterogeneity of the membrane layer to help better understand the mechanisms of the separation processes. The reader will be able to describe membrane separation processes and the membrane reactors as well as choose the most suitable membrane structure for separation and for membrane reactor. Containing detailed discussion of the latest results in transport processes and separation processes, this book is essential for chemistry students and practitioners of chemical engineering and process engineering. Detailed survey of the theoretical and practical aspects of every membrane process with specific equations Practical examples discussed in detail with clear steps Will assist in planning and preparation of more efficient membrane structure separation

Volume 1 of this two volume set focuses on techniques for studying cell structure. It describes light and electron microscopy, subcellular fractionation, protein purification and analysis, nucleic acid analysis, lipid analysis, and investigations of the cytoskeleton. Volume 2 concentrates on understanding how cells function. It describes a range of key investigations of cell function including analyses of gene expression, the cell cycle, cellular bioenergetics, transport across the nuclear membrane and the ER membrane, endosome transport, receptors, and signal transduction.

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