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Membrane Transport in Plants Membrane Transport Membrane Transport Molecular Biology of Membrane Transport Disorders Membrane Transport Membrane Transport in Plants Methods in Membrane Biology Cell Membrane Transport Oxford Handbook of Dialysis Cell Membrane Transport Proton Exchange Membrane Fuel Cells 9 Membrane Transport Processes in Organized Systems Annual Contractors' Conference of the Artificial Kidney Program of the National Institute of Arthritis and Metabolic Diseases Alternatives for Dermal Toxicity Testing Membrane and Desalination Technologies Pediatric Dialysis Case Studies Index Medicus Transport in Plants II Nephrology Secrets: First South Asia Edition - E - Book Advanced Membrane Technology and Applications Saline Water Conversion Report for Saline Water Conversion Report for ... Annual Contractor's Conference of the Artificial Kidney Program of the National Institute of Arthritis, Metabolism, and Digestive Diseases Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence Carcinogenesis and Mutagenesis Testing Replacement of Renal Function by Dialysis Catalog of Research Projects Lewin's CELLS MEMBRANE PROCESSES - Volume I Continuous Ambulatory Peritoneal Dialysis Energy Research Abstracts Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes Evaluation of Hemodialyzers and Dialysis Membranes Cumulated Index Medicus Research and Development Progress Report Organic Cation Transporter 1 (OCT1): Not Vital for Life, but of Substantial Biomedical Relevance Mineral Scales and Deposits Kidney Disease and Nephrology Index Alternatives to Animal Use in Research [sic], Testing, and Education: Overview Physiology of Membrane Disorders

Membrane Transport in Plants 1972 membrane transport

Membrane Transport 1981-01-01 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

Membrane Transport 2013-05-27 when the six of us gathered to start planning for what was to be the third edition of physiology of membrane disorders it was clear that since 1986 when the second edition appeared the field had experienced the dawning of a new era dominated by a change in focus from phenomenology to underlying mechanisms propelled by the power of molecular biology in 1985 detailed molecular information was available for only three membrane transporters the lac permease bacterial rhodopsin and the acetylcholine receptor during the decade that has since elapsed almost all of the major ion channels and transport proteins have been cloned sequenced mutagenized and expressed in homologous as well as heterologous cells few if any of the transporters that were identified during the previous era have escaped the probings of the new molecular technologies and in many instances considerable insight has been gained into their mechanisms of function in health and disease indeed in some instances novel unexpected transporters have emerged that have yet to have their functions identified the decision to adopt the new title molecular biology of membrane transport disorders was a natural outgrowth of these considerations

Molecular Biology of Membrane Transport Disorders 2013-11-11

thermodynamics and electrochemistry of membrane transport water transport and osmotic processes electrical properties of membranes solute transport in algae and cell suspension cultures transport in isolated chloroplasts atpases and transport kinetics of transport transport in organs of higher plants regulating factors in membrane transport

Membrane Transport 1977-02 the purposes of this series were discussed in the preface to volume 1 to present a range of methods from the physical to the physiological in sufficient detail for the reader to use them in his laboratory and also to describe the theoretical backgrounds of the methods and their limitations in membrane biology so that the reader will be enabled to evaluate more critically and to understand more fully data obtained by methods foreign to his usual experiences the chapter by lee birdsall and metcalfe with which volume 2 begins accomplishes these twin goals with a thorough description of the application of nuclear magnetic relaxation measurements to membrane biology together with a lucid and succinct integration of the results of such studies into present concepts of the organization of membrane lipids this then permits speculation on the physical basis of membrane permeability the powerful tool of nmr spectroscopy will have even fuller application with the development of techniques already partially exploited for ¹³c labeling of specific carbon atoms in lipid molecules and with extension of the observations to membrane proteins the following two chapters by glick and by laine stellner and hako mori describe the isolation and characterization of membrane glycoproteins and membrane glycolipids respectively

Membrane Transport in Plants 1974 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

Methods in Membrane Biology 2012-12-06 the oxford handbook of dialysis is a comprehensive and practical guide to all aspects of dialysis the management of patients with end stage kidney disease and all its complications the fourth edition has been completely updated and covers all aspects of dialysis from haemodialysis techniques and haemodiafiltration to the medical nursing and psychosocial aspects of managing patients with end stage kidney failure renal transplantation plasma exchange palliative care and drug dosing are discussed along with end of life care and complications of chronic kidney disease this handbook is packed with practical guidance and management presented in a compact and easy to use format the oxford handbook of dialysis is aimed at all health care professionals dealing with dialysis patients from nephrologists to dietitians as well as pharmacists nurses and surgeons there are specific chapters on nursing patients on haemodialysis and peritoneal dialysis and detailed nutrition and drug prescribing chapters the fourth edition includes new sections on renal replacement therapies in acute kidney injury home dialysis new peritoneal dialysis fluids new drugs including new epoietins and phosphate binders updated sections on nocturnal dialysis dialysis monitoring encapsulating peritoneal sclerosis sleep disorders etc the handbook is easy to read very practical and focussed with individual topics covered on one or two pages this book should have a home in every renal unit dialysis centre renal ward and be close to hand for every nephrologist renal trainee or renal nurse

Cell Membrane Transport 2013-06-29 it is not a particularly rewarding task to engage in writing a book on a subject which is undergoing a rapid and potentially revolutionary development but on the other hand the investigation of transport of substances into and out of cells has reached a stage of maturity or at least of self realization and this fact alone warrants a closer examination of the subject no one will doubt at present that the movement mostly by selective translocation of substances ranging from hydrogen ions to deoxyribonucleic acids across the cell surrounding barriers represents one of the salient features of a living cell and that if we are permitted to go so far the cessation of the selective transport processes might be considered as the equivalent of cell death hardly anybody will question the premise that cell and tissue differentiation within the ontogenetic development of an organism is closely associated with properties of the outer cell face perhaps no serious scholar will attempt to refute the concept that membranes with characteristic morphology and composition represent the architectural framework for the whole cell and probably no experienced biologist will raise objections to the belief that many physiological processes like nervous impulse conduction and other electrical phenomena of cells and tissues or their volume changes are associated with membrane regulated shifts of ions and molecules

Oxford Handbook of Dialysis 2016-02-18 this issue of ECS transactions is devoted to all aspects of research development and engineering of proton exchange membrane PEM fuel cells and attacks as well as low temperature direct fuel cells the intention of the symposium is to bring together the international community working on the subject and to enable effective interactions between the research and engineering communities this issue is sold as a two part set

Cell Membrane Transport 2012-12-06 membrane transport processes in organized systems is a softcover book containing portions of physiology of membrane disorders second edition the parent volume contains six major sections this text encompasses the fourth and fifth sections transport events in single cells and transport in epithelia vectorial transport through parallel arrays we hope that this smaller volume which deals with transport processes in single cells and in organized epithelia will be helpful to individuals interested in general physiology transport in single cells and epithelia and the methods for studying those transport processes thomas e andreoli joseph f hoffman darrell d fanestil stanley g schultz vll preface to the second edition the second edition of physiology of membrane disorders represents an extensive revision and a considerable expansion of the first edition yet the purpose of the second edition is identical to that of its predecessor namely to provide a

rational analysis of membrane transport processes in individual membranes cells tissues and organs which in turn serves as a frame of reference for rationalizing disorders in which derangements of membrane transport processes play a cardinal role in the clinical expression of disease as in the first edition this book is divided into a number of individual but closely related sections part v represents a new section where the problem of transport across epithelia is treated in some detail finally part vi which analyzes clinical derangements has been enlarged appreciably

Proton Exchange Membrane Fuel Cells 9 2009-09 this book provides comprehensive information on the alternative non animal dermal toxicity test methods currently available for industrial regulatory and academic use and also explores potential future developments it encompasses all areas of dermal toxicity including skin irritation skin corrosion skin sensitization uv induced effects and skin genotoxicity an individual chapter is devoted to each test method with coverage of the scientific basis validation status and regulatory acceptance applications and limitations available protocols and potential role within testing strategies in addition perspectives from the test developer are presented for example regarding critical steps in the protocol the closing section addresses areas that may be of relevance for the future of dermal toxicity safety testing including the validation and regulatory acceptance of integrated testing strategies novel complex skin models and high throughput screening techniques

Membrane Transport Processes in Organized Systems 2012-12-06 in this essential new volume volume 13 membrane and desalination technologies a panel of expert researchers provide a wealth of information on membrane and desalination technologies an advanced chemical and environmental engineering textbook as well as a comprehensive reference book this volume is of high value to advanced graduate and undergraduate students researchers scientists and designers of water and wastewater treatment systems this is an essential part of the handbook of environmental engineering series an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid chapters adopt the series format employing methods of practical design and calculation illustrated by numerical examples including pertinent cost data whenever possible and exploring in great detail the fundamental principles of the field volume 13 membrane and desalination technologies is an essential guide for researchers highlighting the latest developments in principles of membrane technology membrane systems planning and design industrial and municipal waste treatments desalination requirements wastewater reclamation biofiltration and more

Annual Contractors' Conference of the Artificial Kidney Program of the National Institute of Arthritis and Metabolic Diseases 1978 edited by the same team that developed the successful pediatric dialysis and its second edition this text features clinical management principles that are integral to the care of children receiving chronic dialysis each chapter is introduced by a case presentation that serves as the basis for key learning points that are clinically applicable and presented in a succinct manner the topics included in pediatric dialysis case studies cover virtually all aspects of pediatric dialysis care and represent the efforts of an international group of experts with firsthand clinical expertise from all disciplines represented in the pediatric dialysis team this resource is certain to help the clinician achieve improved outcomes for these often complex patients

Alternatives for Dermal Toxicity Testing 2017-11-21 vols for 1963 include as pt 2 of the jan issue medical subject headings

Membrane and Desalination Technologies 2010-12-01 as plant physiology increased steadily in the latter half of the 19th century problems of absorption and transport of water and of mineral nutrients and problems of the passage of metabolites from one cell to another were investigated especially in germany justus von liebig who was born in darmstadt in 1803 founded agricultural chemistry and developed the techniques of mineral nutrition in agriculture during the 70 years of his life the discovery of plasmolysis by nagel 1851 the investigation of permeability problems of artificial membranes by traube 1867 and the classical work on osmosis

by pfeffer 1877 laid the foundations for our understanding of soluble substances and osmosis in cell growth and cell mechanisms since living membranes were responsible for controlling both water movement and the substances in solution permeability became a major topic for investigation and speculation the problems then discussed under that heading included passive permeation by diffusion donnan equilibrium adjustments active transport processes and antagonism between ions in that era when organelle isolation by differential centrifugation was unknown and the electron microscope had not been invented the number of cell membranes their thickness and their composition were matters for conjecture the nature of cell surface membranes was deduced with remarkable accuracy from the reactions of cells to substances in solution in 1895 overton in u s a published the hypothesis that membranes were probably lipid in nature because of the greater penetration by substances with higher fat solubility

Pediatric Dialysis Case Studies 2017-08-09 for more than 30 years the highly regarded secrets series r has provided students and practitioners in all areas of health care with concise focused and engaging resources for quick reference and exam review nephrology secrets first south asia edition features the secrets popular question and answer format that also includes lists tables and an easy to read style making reference and review quick easy and enjoyable the proven secrets r format gives you the most return for your time concise easy to read engaging and highly effective covers the full range of essential topics in nephrology for in training or practicing professionals written and fully updated by global experts and thought leaders in nephrology top 100 secrets and key points boxes provide a fast overview of the secrets you must know for success in practice and on exams portable size makes it easy to carry with you for quick reference or review anywhere anytime

Index Medicus 2003 advanced membranes from fundamentals and membrane chemistry to manufacturing and applications a hands on reference for practicing professionals advanced membrane technology and applications covers the fundamental principles and theories of separation and purification by membranes the important membrane processes and systems and major industrial applications it goes far beyond the basics to address the formulation and industrial manufacture of membranes and applications this practical guide includes coverage of all the major types of membranes ultrafiltration microfiltration nanofiltration reverse osmosis including the recent high flux and low pressure membranes and anti fouling membranes membranes for gas separations and membranes for fuel cell uses addresses six major topics membranes and applications in water and wastewater membranes for biotechnology and chemical biomedical applications gas separations membrane contractors and reactors environmental and energy applications and membrane materials and characterization includes discussions of important strategic issues and the future of membrane technology with chapters contributed by leading experts in their specific areas and a practical focus this is the definitive reference for professionals in industrial manufacturing and separations and research and development practitioners in the manufacture and applications of membranes scientists in water treatment pharmaceutical food and fuel cell processing industries process engineers and others it is also an excellent resource for researchers in industry and academia and graduate students taking courses in separations and membranes and related fields

Transport in Plants II 2012-12-06 explore the cutting edge of dissolution testing in an authoritative one stop resource in pharmaceutical dissolution testing bioavailability and bioequivalence science applications and beyond distinguished pharmaceutical advisor and consultant dr umesh banakar delivers a comprehensive and up to date reference covering the established and emerging roles of dissolution testing in pharmaceutical drug development after discussing the fundamentals of the subject the included resources go on to explore common testing practices and methods along with their associated challenges and issues in the drug development life cycle over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution apart from mere quality control readers will discover a wide range of topics including automation generic and biosimilar drug

development patents and clinical safety this volume offers a one stop resource for information otherwise scattered amongst several different regulatory regimes it also includes a thorough introduction to the fundamentals and essential applications of pharmaceutical dissolution testing comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence practical discussions about solubility dissolution permeability and classification systems in drug development in depth examinations of the mechanics of dissolution including mathematical models and simulations an elaborate assessment of biophysiologicaly relevant dissolution testing and ivivcs and their unique applications a complete understanding of the methods requirements and global regulatory expectations pertaining to dissolution testing of generic drug products ideal for drug product development and formulation scientists quality control and assurance professionals and regulators pharmaceutical dissolution testing bioavailability and bioequivalence is also the perfect resource for intellectual property assessors

Nephrology Secrets: First South Asia Edition - E - Book 2018-08-30 cancer has become the most critical health problem in the united states it is expected that 25 of the people will develop this dread disease and many of these will die from the malady the causes of cancer are varied but the best estimate available is that 70 90 arise from environmental factors these statistics have triggered widespread governmental action along two lines 1 an effort to identify those chemicals and conditions that give rise to malignant processes has been mounted by the carcino genesis testing program the national cancer program and subse quently the national toxicology program 2 regulatory laws have been enacted that are administered by agencies such as tsca fifra epa fda osha and so on whose mission is to minimize public ex posure to carcinogens since direct verification that specific chemicals induce cancer in hu of unanticipated expo mans is necessarily limited to known incidences sure and is therefore rare most chemicals are identified as carcinogens only by laboratory experiments at present the only accepted procedure is long term animal bioassay and not only are these studies expensive and time consuming but current worldwide resources permit the evalua tion of only 300 400 chemicals per year a miniscule amount compared to what is available in the commercial world 30 000 existing chemicals with approximately 700 new such materials being introduced every year

Advanced Membrane Technology and Applications 2011-09-20 the leading textbook on the subject a completely rewritten and up to date fifth edition based upon the highly respected fourth edition edited by c jacobs c m kjellstrand k m koch and j f winchester this new edition is truly global in scope and features the contributions of the top experts from around the world

Saline Water Conversion Report for 1967 ideal text for undergraduate and graduate students in advanced cell biology courses extraordinary technological advances in the last century have fundamentally altered the way we ask questions about biology and undergraduate and graduate students must have the necessary tools to investigate the world of the cell the ideal text for students in advanced cell biology courses lewin s cells third edition continues to offer a comprehensive rigorous overview of the structure organization growth regulation movements and interactions of cells with an emphasis on eukaryotic cells the text provides students with a solid grounding in the concepts and mechanisms underlying cell structure and function and will leave them with a firm foundation in cell biology as well as a big picture view of the world of the cell revised and updated to reflect the most recent research in cell biology lewin s cells third edition includes expanded chapters on nuclear structure and transport chromatin and chromosomes apoptosis principles of cell signaling the extracellular matrix and cell adhesion plant cell biology and more all new design features and a chapter by chapter emphasis on key concepts enhance pedagogy and emphasize retention and application of new skills thorough accessible and essential lewin s cells third edition turns a new and sharper lens on the fundamental units of life

Saline Water Conversion Report for ... 1966 membrane processes is a component of encyclopedia of water sciences engineering and technology

resources in the global encyclopedia of life support systems eolss which is an integrated compendium of twenty one encyclopedias these volumes discuss matters of great relevance to our world on desalination which is a critically important as clearly the only possible means of producing fresh water from the sea for many parts of the world the two volumes present state of the art subject matter of various aspects of membrane processes such as history and current status of membrane desalination processes membrane science and reclamation membrane characterization principles and practices of reverse osmosis reverse osmosis introduction hollow fiber membranes preparation and characterization of ionexchange membranes preparation and characterization of micro and ultrafiltration membranes membrane distillation desalination by membrane distillation pervaporation dialysis and diffusion dialysis donnan dialysis modeling and calculation of pressure driven membrane processes survey of theoretical approaches to modeling pressure driven membrane processes submodels for transport in phases reverse osmosis process and system design practical aspects of large scale reverse osmosis applications health safety and environmental considerations membrane separation technologies concentration of liquid foods mass transfer operation membrane separations mass transfer operations hybrid membrane processes recent advances in membrane science and technology in seawater desalination with technology development in the middle east and singapore these volumes are aimed at the following five major target audiences university and college students educators professional practitioners research personnel and policy and decision makers

Annual Contractor's Conference of the Artificial Kidney Program of the National Institute of Arthritis, Metabolism, and Digestive Diseases
2022-01-19 around one third of all biologically relevant small molecules are organic cations these include endogenous substances like catecholamines and other neurotransmitters toxins and drugs designed to affect signaling processes the organic cation transporter 1 oct1 is among the strongest expressed membrane transporters at the sinusoidal blood facing side of liver cells and contributes substantially to the clearance of the blood from numerous organic cations a most striking feature of oct1 is its pronounced genetic diversity between 1 and 10 of all human populations have little to no oct1 activity with several of the oct1 substrates up to 10 of europeans are functionally oct1 deficient apparently the lack of oct1 do not lead to apparent substantial pathological changes in these individuals it thus appears that this transporter is not essential to human life but does it means that oct1 is irrelevant in the last 25 years since the first cloning of this transporter data on its pharmacological and physiological relevance is steadily accumulating numerous clinically relevant drugs e g metformin morphine fenoterol sumatriptan tramadol and tropisetron have been shown to be substrates of oct1 and oct1 deficiency has been shown to affect the pharmacokinetics efficacy or toxicity of these drugs also vitamin b1 has been shown to be a substrate of oct1 and in genetically modified mice oct1 substantially modulated hepatic lipid metabolism total body fat and systemic glucose and lipid concentrations still numerous important questions remain unsolved for which drugs toxins or other endogenous or exogenous substances is oct1 relevant how can we predict the relevance of oct1 from in vitro studies what determines the substrate selectivity of oct1 in comparison to other transporters or transport processes for organic cations what regulates the expression of oct1 in the liver and possibly in other tissues what is the impact of oct1 variation in different areas of medicine including the therapies for cancer as well as for pulmonary cardiovascular or neurological diseases how can evolutionary biology contribute to a better understanding of the roles of oct1 and importantly what types of research are likely to significantly further the knowledge on oct1 in the next decades

Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence

2012-12-06 mineral scales and deposits scientific and technological approaches presents in an integrated way the problem of scale deposits precipitation crystallization of sparingly soluble salts in aqueous systems both industrial and biological it covers several fundamental aspects also offering an applications perspective with the ultimate goal of helping the reader better understand the underlying mechanisms of

scale formation while also assisting the user reader to solve scale related challenges it is ideal for scientists experts working in academia offering a number of crystal growth topics with an emphasis on mechanistic details prediction modules and inhibition dispersion chemistry amongst others in addition technologists consultants plant managers engineers and designers working in industry will find a field friendly overview of scale related challenges and technological options for their mitigation provides a unique detailed focus on scale deposits includes the basic science and mechanisms of scale formation present a field friendly overview of scale related challenges and technological options for their mitigation correlates chemical structure to performance provides guidelines for easy assessment of a particular case also including solutions includes an extensive list of industrial case studies for reference

Carcinogenesis and Mutagenesis Testing 2013-06-05 the second edition of physiology of membrane disorders represents an extensive revision and a considerable expansion of the first edition yet the purpose of the second edition is identical to that of its predecessor namely to provide a rational analysis of membrane transport processes in individual membranes cells tissues and organs which in turn serves as a frame of reference for rationalizing disorders in which derangements of membrane transport processes play a cardinal role in the clinical expression of disease as in the first edition this book is divided into a number of individual but closely related sections part v represents a new section where the problem of transport across epithelia is treated in some detail finally part vi which analyzes clinical derangements has been enlarged appreciably the editors xi preface to the first edition the purpose of this book is to provide the reader with a rational frame of reference for assessing the pathophysiology of those disorders in which derangements of membrane transport processes are a major factor responsible for the clinical manifestations of disease in the present context we use the term membrane transport to refer to those molecular processes whose cardinal function broadly speaking is processes in a catholic sense the vectorial transfer of molecules either individually or as ensembles across biological interfaces the latter including those interfaces which separate different intracellular compartments the cellular and extracellular compartments and secreted fluids such as glomerular filtrate and extracellular fluids

Replacement of Renal Function by Dialysis 1973

Catalog of Research Projects 2013-12-02

Lewin's CELLS 2010-11-05

MEMBRANE PROCESSES - Volume I 2009

Continuous Ambulatory Peritoneal Dialysis 1987

Energy Research Abstracts 1979

Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes 1977

Evaluation of Hemodialyzers and Dialysis Membranes 1991

Cumulated Index Medicus 1967

Research and Development Progress Report 2022-01-12

Organic Cation Transporter 1 (OCT1): Not Vital for Life, but of Substantial Biomedical Relevance 2015-05-21

Mineral Scales and Deposits 1978

Kidney Disease and Nephrology Index 1986

Alternatives to Animal Use in Research [sic], Testing, and Education: Overview 2013-11-11

Physiology of Membrane Disorders

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