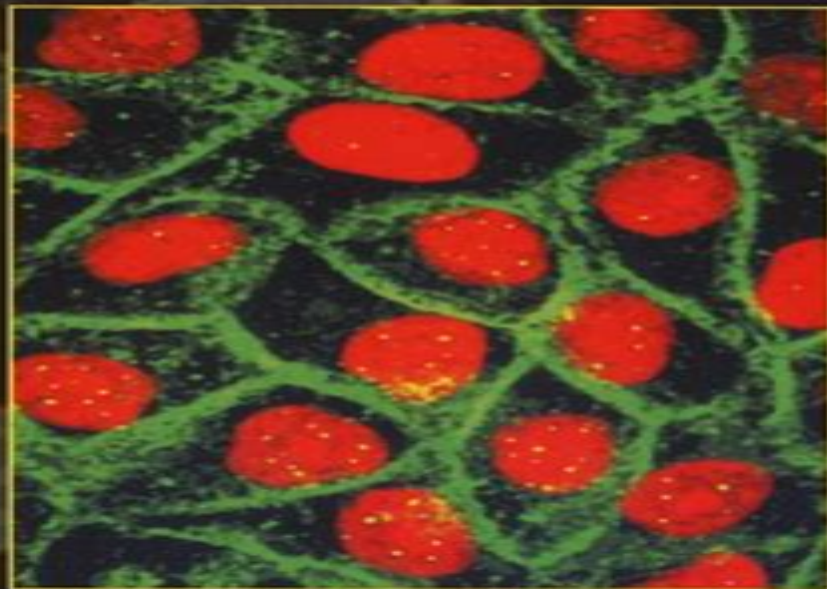


Epithelial Transport

A guide to methods and experimental analysis



Edited by Nancy K. Wills, Luis Reuss
and Simon A. Lewis



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Epithelial Transport A Guide To Methods And Experimental Analysis

Claus-Michael Lehr



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Basic Epithelial Ion Transport Principles and Function Kirk L. Hamilton, Daniel C. Devor, 2020-11-26 This book discusses unique ion channels and transporters that are located within epithelial tissues of various organs including the kidney intestine pancreas and respiratory tract As the authors show these channels and transporters play crucial roles in transepithelial ion and fluid transport across epithelia and their contribution to maintaining homeostasis Readers will be introduced to the fundamentals of ion transport in terms of function modelling regulation structure and pharmacology This is the first of three volumes highlighting the importance of epithelial ion channels and transporters in basic physiology and pathophysiology of human diseases This volume focuses on basic fundamentals of epithelial transport physiology There is a range of chapters dedicated to specific aspects of epithelial ion transport and cell function Accordingly the authors discuss techniques used to determine epithelial function principles of epithelia transport polarization of epithelial cells mathematical modelling of epithelial ion transport protein folding of ion channels degradation epithelial ion channels fundamentals of epithelial sodium potassium and chloride transport fundamentals of bicarbonate secretion volume regulation and microRNA regulation of epithelial channels and transporters Given its scope Volume 1 offers a valuable resource for physiology students scientists and clinicians alike

Epithelial Cell Culture Protocols Clare Wise, 2008-02-05 There have been significant advances in research involving the isolation and culture of epithelial cells in the past decade and many new techniques have been developed Monolayer cultures can be used to evaluate the nature and behavior of cells while the use of epithelial cells in model systems has allowed a deeper understanding of cellular and molecular mechanisms and interactions The aim of this book is to provide a comprehensive step by step guide to many techniques for epithelial cell culture combining in one volume the more commonly used protocols along with many that are more specialized Epithelial Cell Culture Protocols should help those who are new to this field and want to learn the basic culture techniques as well as those needing to use more wide ranging and specific protocols It should be a useful resource on its own and also complement the other volumes that have been written about cell culture in the Methods in Molecular Biology series Epithelial Cell Culture Protocols covers a wide variety of protocols mostly aimed at the researcher but also a few aimed at clinicians The establishment and maintenance of primary cultures derived from many different tissues and different species is covered Particular emphasis has been placed on protocols needed to further analyze and assess epithelial

cells for example by looking at apoptosis and integrins and by measuring membrane capacitance and confluence Using different coculture techniques it is possible also to develop models to investigate many different systems in vitro

Cell Culture Models of Biological Barriers Claus-Michael Lehr, 2002-08-08 Over the past ten years several sophisticated in vitro test systems based on epithelial cell cultures have been introduced in the field of drug delivery These models have been found to be very useful in characterizing the permeability of drugs across epithelial tissues and in studying formulations or carrier systems for improved drug delivery and

Tight Junctions Marcelino Cerejido, James M. Anderson, 2001-06-26 As the first detailed overview of the subject Tight Junctions brought together diverse perspectives from leading investigators to provide a multidisciplinary overview of the field Since its publication in 1992 there has been an explosion of information about tight junctions particularly in the area of molecular structure cell and molecular bio

Ion Channels and Transporters of Epithelia in Health and Disease Kirk L. Hamilton, Daniel C Devor, 2015-12-14 This book sheds new light on the physiology molecular biology and pathophysiology of epithelial ion channels and transporters It combines the basic cellular models and functions by means of a compelling clinical perspective addressing aspects from the laboratory bench to the bedside The individual chapters written by leading scientists and clinicians explore specific ion channels and transporters located in the epithelial tissues of the kidney intestine pancreas and respiratory tract all of which play a crucial part in maintaining homeostasis Further topics include the fundamentals of epithelial transport mathematical modeling of ion transport cell volume regulation membrane protein folding and trafficking transepithelial transport functions and lastly a discussion of transport proteins as potential pharmacological targets with a focus on the pharmacology of potassium channels

Gastrointestinal Physiology Menzibeya Osain Welcome, 2018-06-20 This book offers one of the most comprehensive reviews in the field of gastrointestinal GI physiology guiding readers on a journey through the complete digestive tract while also highlighting related organs and glandular systems It is not solely limited to organ system physiology and related disciplines like anatomy and histology but also examines the molecular and cellular processes that keep the digestive system running As such the book provides extensive information on the molecular cellular tissue organ and system levels of functions in the GI system Chapters on the roles of the gut as an endocrine exocrine and neural organ as well as its microbiome functions broaden readers understanding of the multi organ networks in the human body To help illustrate the interconnections between the physiological concepts principles and clinical presentations it outlines clinical examples such as pathologies that link basic science with clinical practice in special clinical correlates sections Covering both traditional and contemporary topics it is a valuable resource for biomedical students as well as healthcare and scientific professionals

Principles and Models of Biological Transport Morton H. Friedman, 2008-12-15 Focus Organization and Content This book like the first edition deals with the mass transport processes that take place in living systems with a focus on the normal behavior of eukaryotic cells and the organisms they constitute in their normal physiological environment As a consequence of

this focus the structure and content of the book differ from those of traditional transport texts We do not start with the engineering principles of mass transport which are well presented elsewhere and then seek biological applications of these principles rather we begin with the biological processes themselves and then develop the models and analytical tools that are needed to describe them This approach has several consequences First of all it drives the content of the text in a direction distinctively different from conventional transport texts This is because the tools and models needed to describe complex biological processes are often different from those employed to describe more well characterized inanimate systems Many biological processes must still be described phenomenologically using methodologies like nonequilibrium thermodynamics Simple electrical analogs employing a paucity of parameters can be more useful for characterization and prediction than complex theories based on the behavior of more well defined systems on a laboratory bench By allowing the biology to drive the choice of analysis tools and models the latter are consistently presented in the context of real biological systems and analysis and biology are interwoven throughout

Role of Calcium and Comparable Cations in Animal Behaviour

Patricia Wilkins, Ralph G Wilkins, 2007-10-31 Calcium and comparable cations are fast being recognised for their role as vital components of animal physiology When trying to answer questions such as why salmon can adjust to life in fresh water as well as seawater or why chilli peppers taste hot to humans but evoke little response from chickens we often find the answers lie in patterns of movement of these ions and their roles in sensing transmitting and collecting messages Bringing together scattered literature on calcium sodium potassium and magnesium in biology this book examines important biological contributions of these ions including enzyme activation effects in all types of muscle and biomineralization Attention is focused on channel construction and ion movement calcium as a second messenger and in the construction of solids and ion channelopathies with the help of personalities such as Agatha Christie van Gogh and Captain Cook The Role of Calcium and Comparable Cations in Animal Behaviour will be valued by a wide range of readers including students of bioinorganic chemistry and animal behavioural studies teachers and other professionals in academia

Advances in Pharmacology

, 1999-05-10 Each volume of Advances in Pharmacology provides a rich collection of reviews on timely topics Emphasis is placed on the molecular bases of drug action both applied and experimental This volume includes reviews on some of the hottest topics in pharmacology including Multidrug resistance and the MDR1 gene in gene therapy Regulation of calcium channels in epithelial cells Gene therapy and vascular disease Potential therapeutic applications for Heparin Calcium channel blockers Antithrombotic agents Regulation of potassium channels in epithelial cells

Membrane Transporters as Drug Targets Gordon L. Amidon, Wolfgang Sadée, 2006-04-11 Because progress in the field of transporters has been extraordinary this volume will focus on recent advances in our understanding of the structure function physiology and molecular biology of membrane transporters There will be an emphasis on transporters as molecular targets for drug delivery and disposition in the body

Liquid Interfaces In Chemical, Biological And Pharmaceutical Applications Alexander G. Volkov, 2001-01-30

Offers a comprehensive treatment of surface chemistry and its applications to chemical engineering biology and medicine
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 ion solvation and electrostatic instabilities in double layers *Encyclopedia of Separation Science* Ian D. Wilson, E. R.
 Adlard, Michael Cooke, C. F. Poole, 2000 Volume 1 of this resource encyclopedia contains Level 1 which provides a broad
 overview of the theory of the 12 main categories of separation techniques Volumes 2-4 Level 2 expand coverage with detailed
 theoretical and technical descriptions of particular techniques The remaining Volumes 5-9 Level 3 cover applications of these
 techniques from the micro to the macro and from the analytical laboratory bench to large scale industrial processes The last
 volume consists mainly of the index **ATLA**, 2002 *Calcium Signaling and Physiology of Two Epithelia* Jodi Marie
 Rymer, 2003 **Investigative Ophthalmology & Visual Science**, 2001 **Biochemicals and Reagents for Life**
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