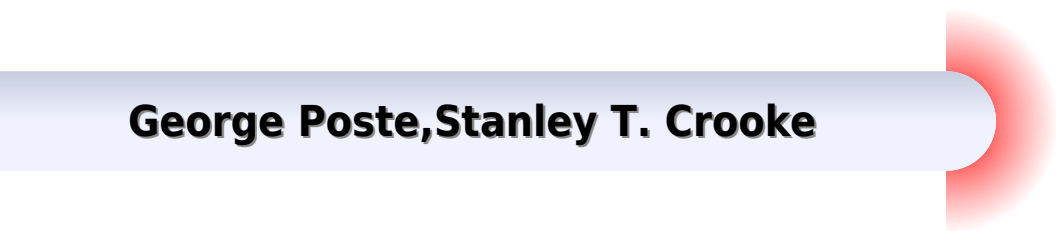


New Insights into Cell and Membrane Transport Processes

Edited by
GEORGE POSTE
and
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New Insights Into Cell And Membrane Transport Processes

George Poste, Stanley T. Crooke



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National Library of Medicine Current Catalog National Library of Medicine (U.S.), **Airway Smooth Muscle in Health and Disease** R.F. Coburn, 2012-12-06 I organized this book because there is a need to put together in book form recent advances in our knowledge of how airway smooth muscle works in health and in disease After a period when it seemed that progress was very slow there has been in the past few years an incredibly rapid gathering of knowledge in this area In particular our understanding has improved regarding the cascades of events that follow the initial binding of agonist to plasma membrane receptors and that lead to the cross bridge movements that determine contraction This advance in our knowledge was stimulated by use of single and whole cell channel recordings of plasma membrane currents and by description of the I₃ receptor GTP binding protein adenylate cyclase cAMP coupling system which serves as a model for other coupling mechanisms The discovery of the receptor activated inositol phospholipid transduction system has greatly stimulated research and led to advances in our understanding of mechanisms involved in smooth muscle contraction Major advances were also triggered by the development of indicators for measuring free cytosolic calcium concentration and starting the unraveling of 2 the events involved in Ca dependent activation of contractile proteins Although most of the studies that led to our current understanding of these areas were performed on nonairway smooth muscle these studies usually add to our understanding of airway smooth muscle and there is an enlarging body of data that have been obtained on airway smooth muscle **New insights into the influences of soil nutrients on plant-fungal symbiosis in agro- and forest ecosystems** Kai Sun, Fangdong Zhan, Yu Shi, Jiayu Zhou, Jun Zhou, 2023-08-03 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 **New insights into mucosal-associated lymphoid tissues in fish** Umasuthan Navaneethaiyer, Teruyuki Nakanishi, Samuel A. M. Martin, Javier Santander, 2023-06-01

Current Topics in Membranes and Transport, 1987-07-09 *Current Topics in Membranes and Transport* *Advances in Comparative and Environmental Physiology* R. Gilles, E.K. Hoffmann, L. Bolis, 2012-12-06 *Advances in Comparative and Environmental Physiology* helps biologists physiologists and biochemists keep track of the extensive literature in the field Providing comprehensive integrated reviews and sound critical and provocative summaries this series is a must for all active researchers in environmental and comparative physiology Cellular volume and osmolality in animals is a well studied topic and this specific volume in the series provides the reader with a thorough grounding in this area of physiology Consisting of two parts the text discusses osmolality and volume control in terms of both inorganic and organic ions which as a result gives an excellent overview to those working and interested in this field **Environmental Health Perspectives**, 1990 *New Insights into Salinity Sensing, Signaling and Adaptation in Plants* Giovanni Stefano, Jayakumar Bose, Camilla Hill, Honghong Wu, 2021-04-12 **Ion Transport in Vertebrate Colon** W. Clauss, 2013-12-19 Studies on the colon not only serve medical

interest or clinical purposes but are also a highly interesting subject of comparative physiology from which we can learn much about the basic principles in physiology Presented here are examples of research on colonic ion transport of each vertebrate group including the classical models of epithelia rat and rabbit and also on the special and unique features in fish amphibians reptiles birds and selected mammals such as the guinea pig Physiology and pathophysiology of ion transport in the human large intestine are as well covered as the use of colonic cell cultures as model systems for crypt cell properties

International Review of Cytology, 2000-05-06 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Somite Formation and Patterning Morphogenesis of the Egg Shell in Drosophila Cell Biology of Cytochrome P 450 in the Liver Alternative Protein Sorting Pathways Structural Correlates of the Transepithelial Water Transport Membrane Trafficking and Processing in Paramecium Role of Natural Benzoxazinones in the Survival Strategy of Plants *Cell Calcium Metabolism* Gary Fiskum, 2013-04-17 A widespread appreciation for the role that calcium plays in cell physiology and pathophysiology has now been achieved due to the pioneering studies of many of the scientists who attended the VIIth International Spring Symposium on Health Sciences at George Washington University in Washington D C The participants in this unique meeting represented diverse fields of basic and clinical research such as molecular physiology oncology molecular genetics cardiology bioenergetics pathology and endocrinology The content of the proceedings of the symposium represents work in these and other areas of biomedical research Organization of the book is aimed at striking a balance between the biochemistry and physiology of normal cell Ca metabolism and the pathological consequences of alterations in cell Ca homeostasis The first section of the book is devoted to the transport mechanisms responsible for regulating intracellular Ca and the pharmacological modalities for controlling cell Ca Particular attention is given to the molecular basis for plasma membrane transport activities including the ATP driven Ca pump the Na Ca exchange system and voltage sensitive Ca channels The second section covers the exciting relationships between phosphoinositide metabolism signal transduction and cell Ca metabolism This section begins with an eloquent overview by Professor Michael Berridge who was the keynote speaker at the symposium and the recipient of the scientific merit award Mechanisms of Taste Transduction Sidney A. Simon, Stephen D. Roper, 2014-07-22 Mechanisms of Taste Transduction introduces a number of topics essential to a complete understanding of taste These topics range from the control of food intake to the biophysical mechanisms of transduction and the design of food flavors in the food industry The responses and organization of special sensory pathways are described in regard to the Ion Channels T. Narahashi, 2012-12-06 A wealth of information has been accumulated about the function of ion channels of excitable cells since the extensive and pioneering voltage clamp studies by Hodgkin

Huxley and Katz 36 years ago The study of ion channels has now reached a stage at which a quantum jump in progress is anticipated There are many good reasons for this Patch clamp techniques originally developed by Neher and Sakmann 12 years ago have made it possible to study the function of ion channels in a variety of cells Membrane ionic currents can now be recorded practically from many types of cells using the whole cell patch clamp technique The opening and closing of individual ion channels can be analyzed using the single channel patch clamp method Techniques have also been developed to incorporate purified ion channels into lipid bilayers to reconstitute an excitable membrane Advanced techniques developed in molecular biology genetics and immunology such as gene cloning and the use of monoclonal antibodies are now being applied to the study of ion channels A variety of drugs have now been found or are suspected to interact with ion channels to exert therapeutic effects In addition to the classical examples as represented by local anesthetics many other drugs including calcium antagonists psychoactive drugs cardiac drugs and anticonvulsants shown to alter ion channel function For certain pesticides such as pyrethroids and DDT sodium channels are clearly the major target site

Microcompartmentation D.P. Jones, 2018-01-18 Microcompartmentation refers to nonhomogeneous distribution of solutes in compartments of cells or associated structures without intervening membranal barriers Such variations in concentration of ions metabolites intracellular messengers and nutrients can introduce significant heterogeneity in subcellular function and regulation The current focus on biological examples of microcompartmentation provides ample evidence for its importance and the role of physical structure in determining local chemical environments The examples present in the different chapters include microcompartmentation of Ca^{2+} H⁺ ATP ADP O_2 glycolytic intermediates fatty acids amino acids and nucleic acid precursors In reviewing these systems the authors provide a useful resource for experimental approaches to study microcompartmentation and provide the basis for future studies of its role in regulation of cell functions

Protein Nutrition and Mineral Absorption Raul A. Wapnir, 2024-12-06 This volume presents information regarding the mechanisms of protein absorption under normal and pathologic conditions in addition to reviewing changes that occur at various stages of life General modifiers of intestinal absorption such as the processing of foods the nutritional status of the individual and disease are explored with reference to both proteins and minerals Inorganic macronutrients namely calcium magnesium and phosphorus are discussed in relation to protein ingestion The book also explores the concept of essential trace elements e.g. iron zinc copper and iodine and their link to protein sufficiency The relationship of ultratrace elements with the content of proteins in food is examined and the book offers a fresh view of the role of certain elements particularly zinc on the conformation of proteins linked to DNA hormone receptors and gene products Protein Nutrition and Mineral Absorption is packed with 2 300 references 100 figures and graphs plus 25 tables Nutritionists and physicians will find this book to be an invaluable reference source for rationalizing nutritional interventions and diet modifications for their patients

The Calcium Channel: Structure, Function and Implications Martin Morad, Winifred G. Nayler, Stanislav Kazda, Matthias

Schramm,2012-12-06 This is the first book to summarize experimental results from the new rapidly expanding field of research into the calcium channel in cell membrane Calcium is an ubiquitous messenger of various cellular functions Its fundamental role in the regulation of cardiac contractions has long been recognized Drugs counteracting some actions of calcium ions namely calcium antagonists have since become essential to research In the last decade it has been established that calcium ions reach their target intracellular system by passing through specialized calcium channels in the membrane Recently improved experimental techniques combined with the discovery of highly specific Ca channel ligands have dramatically enlarged our knowledge of the molecular structure and function of such channels The contributions by leading world specialists shed new light on both basic science and possible clinical implications for cardiovascular pharmacology endocrinology and neuropharmacology *Electromagnetic Fields of Wireless Communications: Biological and Health Effects*

Dimitris J. Panagopoulos,2022-12-30 This book reflects contributions from experts in biological and health effects of Radio Frequency RF Microwave and Extremely Low Frequency ELF Electromagnetic Fields EMFs used in wireless communications WC and other technological applications Diverse topics related to physics biology pathology epidemiology and plausible biophysical and biochemical mechanisms of WC EMFs emitted by antennas and devices are included Discussions on the possible consequences of fifth generation 5G mobile telephony MT EMFs based on available data and correlation between anthropogenic EMF exposures and various pathological conditions such as infertility cancer electro hypersensitivity organic and viral diseases and effects on animals plants trees and environment are included It further illustrates individual and public health protection and the setting of biologically and epidemiologically based exposure limits Features Covers biological and health effects including oxidative stress DNA damage reproductive effects of mobile phones antennas 2G 3G 4G cordless phones Wi Fi etc Describes effects induced by real life exposures by commercially available devices antennas Illustrates biophysical and biochemical mechanisms that fill the gap between recorded experimental and epidemiological findings and their explanations Explores experimental and epidemiological facts and mechanisms of action Provides explanations and protection tips Transcends across physical biological chemical health epidemiological and environmental aspects of the topic This book is aimed at senior undergraduate graduate students in physics biology medicine bioelectromagnetics electromagnetic biology non ionizing radiation biophysics telecommunications electromagnetism bioengineering and dosimetry *Methods in Pharmacology*

H. Glossmann,J. Striessnig,2013-03-09 The current volume provides detailed experimental protocols used to study plasma membrane ion channels as pharmacological targets Coverage includes molecular and biochemical characterization of ion channels functional analysis of ion channels after reconstitution expression or in cells and specific methods and tools This wealth of information will benefit academic and industrial researchers and graduate students in pharmacology biochemistry physiology and biophysics

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