

Extracellular Nucleotides and Nucleosides

**Release, Receptors, and Physiological
& Pathophysiological Effects**

Edited by

Erik Mills Schwiebert



ACADEMIC PRESS

Current Topics in Membranes, Volume 58

Extracellular Nucleotides And Nucleosides Vol 54 Release Receptors And Physiological And Pathophysiological Effects

J Elliott



Extracellular Nucleotides And Nucleosides Vol 54 Release Receptors And Physiological And Pathophysiological Effects:

Extracellular Nucleotides and Nucleosides: Release, Receptors, and Physiological & Pathophysiological Effects, 2003-09-10 Purinergic receptors are proteins that bind ATP as their extracellular ligand. Once thought only as an intracellular molecule that provides energy, ATP is also now considered an essential autocrine/paracrine agonist that acts extracellularly within tissues and tissue microenvironments. Receptors for ATP and its metabolites, so-called purinergic receptors, are essential membrane receptors that transduce the extracellular signal carried by ATP. Many cell types or tissues express multiple types of these receptors, often on the same cell. This volume will cover the history and overall impact of extracellular ATP signaling methods to detect ATP release and signaling, the molecular and cell biology of purinergic receptors, the pharmacology of purinergic receptors, the ion channel biophysics and biochemistry of P2X purinergic receptor channels, and the physiology and pathophysiology of purinergic receptors. Key Features: Organized and written by world-renowned experts. Covers state-of-the-art experimental methods. Has broad appeal to basic and clinical scientists, the biotech industry, and pharmaceutical research companies.

Dynamic Plasma Membranes: Portals Between Cells and Physiology, 2016-01-09 This volume focuses on the recent advances in understanding plasma membrane organization and function, beginning with simple systems and extending to specialized membrane domains of vertebrate cells. Written by leading experts in the field, it contains original material, both textual and illustrative, that should become a very relevant reference material. Presents material in a very comprehensive manner. Ideal for both researchers in the field and general readers who will find relevant and up-to-date information.

Structure and Function of Calcium Release Channels Irina Serysheva, 2010-09-22 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization, beginning with a review of past successes and general trends, then further discussing challenges of membranes protein crystallization, cell-free production of membrane proteins and novel lipids for membrane protein crystallization. This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes, establishing Membrane Protein Crystallization as a needed practical reference for researchers.

Chemokines, Chemokine Receptors and Disease Lisa M. Schwiebert, 2005-09-02 This volume in the Current Topics in Membranes series discusses the biology of chemokines and their binding partners, chemokine receptors, in normal and disease-related states. Chemokines are small proteins that are important in normal immune responses. Recent research demonstrates a role for these proteins in a variety of diseases such as heart disease, allergy, asthma, and cancer. As a result of the discovery of this link to disease, the topic of chemokines and drugs that block their actions has become an intense area of study. This book presents the topics of chemokines, chemokine receptors, and related pathologies in an integrated manner that provides the reader with a comprehensive and up-to-date knowledge of these topics. Provides a

comprehensive overview of the history molecular biology cell biology pharmacology physiology and pathophysiology of chemokines and their receptors Each chapter discusses future directions and unanswered questions of chemokine biology Serves as a road map for future research Advances in Adrenergic Receptor Biology ,2011-08-03 This volume of Current Topics in Membranes focuses on adrenergic receptor biology beginning with a review of past successes and historical perspectives then further discussing current general trends in adrenergic receptor studies in various contexts This publication also includes discussions of the role and relationship of adrenergic receptors to different systems and diseases establishing adrenergic receptor biology as a needed practical reference for researchers Mechanosensitive Ion Channels, Part A ,2011-09-21 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes Each volume is a guest edited compendium of membrane biology This series has been a mainstay for practicing scientists and students interested in this critical field of biology Articles covered in the volume include The Mechanical Properties of Bilayers Molecular Dynamic Modeling of MS Channels Structures of the Prokaryotic Mechanosensitive Channels MscL and MscS 3 5 Billion Years of Mechanosensory Transduction Structure and Function of Mechanosensitive Channels in Prokaryotes Activation of Mechanosensitive Ion Channels by Forces Transmitted through Integrins and the Cytoskeleton Thermodynamics of Mechanosensitivity Flexoelectricity and Mechanotransduction Lipid Effects on Mechanosensitive Channels Functional Interactions of the Extracellular Matrix with Mechanosensitive Channels MSCL The Bacterial Mechanosensitive Channel of Large Conductance The Bacterial Mechanosensitive Channel MscS Emerging Principles of Gating and Modulation Structure function relations of MscS The MscS Cytoplasmic Domain and its Conformational Changes upon the Channel Gating Microbial TRP Channels and Their Mechanosensitivity MSCS Like Proteins in Plants Delivering Force and Amplifying Signals in Plant Mechanosensing MS Channels in Tip Growing Systems

Leucocyte Adhesion Klaus Ley,2009-11-09 Leucocyte Adhesion provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes This volume provides a review of the latest developments in leukocyte adhesion Regulation of cell adhesion is important for immune system function Contributions from leading experts in the field Reviews the latest developments **The Eye's Aqueous Humor** ,2008-11-03 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes Each volume is a guest edited compendium of membrane biology Guest edited by cell membrane experts Dynamic and thorough coverage of all aspects of the aqueous humor from inflow to outflow Provides the latest teachings on genomics and glaucoma Highlights new therapeutic strategies for the control of intraocular pressure **The Nociceptive Membrane** ,2011-09-21 Membranes are essential cellular organelles They not only define cells and other organelles but also are critical in the cell function by selectively regulating the passage of molecules by acting as a matrix for other signaling molecules and as conduits of information transfer between the external environment and the cell interior This series was

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Membrane Fusion ,2011-07-25 This volume of Current Topics in Membranes focuses on Membrane Fusion beginning with fusion and fission of lipid bilayers with reviews focused on hemifusion and dynamic remodeling of membranes catalyzed by dynamin Other topics discussed include viral fusion intracellular fusion developmental cell fusion and theoretical modeling

Computational Modeling of Membrane Bilayers V. Sundararajan,2011-08-29 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes Each volume is a guest edited compendium of membrane biology Discusses the current state of electrostatics in biomolecular simulations and future directions Includes information on time and length scales in lipid bilayer simulations Includes a chapter on the nature of lipid rafts

Co-Transport Systems ,2012-12-31 Current Topics in Membranes is targeted towards scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading In this volume researchers are encouraged to fully explore topics and research related to co transport systems The authors and editors associated with the Current Topics in Membranes series are recognized as world renowned scientists in their respective fields making CTM one of the premier serials on membranes Field is cutting edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

Thermal Sensors León Islas,Feng Qin,2014-10-28 Current Topics in Membranes is targeted toward scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading This volume presents an up to date presentation of current knowledge and problems in the field of thermal receptors This is a rapidly evolving research area and the book contains important contributions from some of the leaders in the field Written by leading experts Contains original material both textual and illustrative that should become a very relevant reference material The material is presented in a very comprehensive manner Both researchers in the field and general readers should find relevant and up to date information

Membrane Protein Crystallization ,2009-05-29 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization beginning with a review of past successes and general trends then further discussing challenges of membranes protein crystallization cell free production of membrane proteins and novel lipids for membrane protein crystallization This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes establishing Membrane Protein Crystallization as a needed practical reference for researchers

Free Radical Effects on Membranes ,2008-06-30 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes This volume consist of eleven chapters from experts in the field that encompass free radical effects on diverse membrane functions ranging from selective barrier functions controlling membrane protein function to discussing how the hydrophobic environment within membranes regulate free

radical reactivity The focus is on articles discussing specific examples in which membranes from different cellular compartments e g plasma ER mitochondria and membrane proteins either regulate reactive species formation and reactivity or are specific targets of reactive species leading to alteration in function Provides overviews on biomembranes and the impact their physico chemical properties have on reactive species reactivity Focuses is on reactive species and control of cell signaling pathways Illustrates the concept that different reactive species can modulate function of specific membrane ion channels in different tissues including sodium channels chloride channels sodium potassium ATPases and calcium channels in both plasma and intracellular organelle membranes

Functional Organization of Vertebrate Plasma Membrane

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Metal Transporters Jose M.

Arguello,Svetlana Lutsenko,José M. Argüello,2012-10-25 This volume of Current Topics in Membranes focuses on metal transmembrane transporters and pumps a recently discovered family of membrane proteins with many important roles in the physiology of living organisms The book summarizes the most recent advances in the field of metal ion transport and provides a broad overview of the major classes of transporters involved in homeostasis of heavy metals Various families of the transporters and metal specificities are discussed with the focus on the structural and mechanistic aspects of their function and regulation The reader will access information obtained through a variety of approaches ranging from X ray crystallography to cell biology and bioinformatics which have been applied to transporters identified in diverse biological systems such as pathogenic bacteria plants humans and others Field is cutting edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

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