

The P2 Nucleotide Receptors

Edited by

John T. Turner

Gary A. Weisman

Jeffrey S. Fedan



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The P2 Nucleotide Receptors The Receptors

Geoffrey Burnstock, Timothy R. Arnett



The P2 Nucleotide Receptors The Receptors:

The P2 Nucleotide Receptors John T. Turner, Gary A. Weisman, Jeffrey S. Fedan, 2012-12-06 A state of the art summary from leading laboratories around the world of our current knowledge of the molecular biology the physiology and the pharmacology of the P2 receptors The authoritative contributions cover the major aspects of these receptors describing the relationships between physiological and pharmacological effects of ATP and other nucleotides and the various cloned P2 receptors as well as providing an historical perspective and discussing current issues of nomenclature They also illuminate how P2 receptor structures contribute to their function including the physical differences underlying the pharmacological and functional variations among P2 receptor subtypes

Nucleotides and their Receptors in the Nervous System P. Illes, H. Zimmermann, 1999-08-31 The study of purinergic mechanisms has for long been focused on the actions of the nucleoside adenosine whereby the contribution of nucleotides to the signaling systems has been underestimated Based on the proceedings of a IUPHAR Satellite Conference held in Leipzig Germany this book offers a comprehensive update and overview of nucleotide release the structure and function of nucleotide receptors nucleotide metabolizing ecto enzymes as well as the physiological functions of nucleotides in the nervous system The physiology and molecular biology of receptors for ATP and other nucleotides are examined as are the physiology and molecular biology of enzymes that hydrolyze extracellular nucleotides At present a pharmacology of the nucleotide signaling system is being developed Of particular interest is the production of receptor subtype specific antagonists and of drugs that selectively affect the extracellular lifetime of the nucleotide An excellent source of reference for institutes of pharmacology biochemistry neurology zoology and physiology and for the pharmaceutical industry

Nucleotides and Regulation of Bone Cell Function Geoffrey Burnstock, Timothy R. Arnett, 2006-09-27 ATP's powerful impact on the heart and blood vessels was first described in 1929 but it was not until the 1970s that ATP was proposed as the purinergic neurotransmitter in autonomic nerves The door to this area of research was thrown open when receptors for ATP and its ectoenzymatic breakdown product adenosine were first cloned in the early 199

Purines in Cellular Signaling Kenneth A. Jacobson, John W. Daly, Vincent Manganiello, 2012-12-06 Research on purine derivatives as potent and selective modulators of physiologic functions has moved to center stage This volume covers the biology and chemistry of purines and of their receptors broadly under these section headings Adenosine Receptors and Effector Systems Adenine Nucleotide Receptors and Effector Systems Phosphodiesterase Enzymes and Inhibitors The presentations focus on the potential development of clinically useful drugs and powerful agents that activate or block purinergic receptors or that inhibit phosphodiesterases Xanthines caffeine and theophylline represent one class of such agents This volume is for pharmacologists biochemists and medical chemists in research labs of universities government and the pharmaceutical industry

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

Thrombosis Jef Arnout, M. Hoylaerts, 2003 Papers delivered at the Center for Thrombosis and Vascular Research in Leuven in honor of Jos Vermeylen

Endothelial Biomedicine William C. Aird, 2007-09-03 The endothelium the cell layer that forms the inner lining of blood vessels is a spatially distributed system that extends to all areas of the human body Clinical and basic research demonstrates that the endothelium plays a crucial role in mediating homeostasis and is involved in virtually every disease either as a primary determinant of pathophysiology or as a victim of collateral damage The endothelium has remarkable though largely untapped diagnostic and therapeutic potential This volume bridges the bench to bedside gap in endothelial biomedicine advancing research and development and improving human health The book is the first to systematically integrate knowledge about the endothelium from different organ specific disciplines including neurology pulmonary cardiology gastroenterology rheumatology infectious disease hematology oncology nephrology and dermatology Its interdisciplinary approach which draws on expertise from such diverse fields as evolutionary biology comparative biology molecular and cell biology mathematical modeling and complexity theory translational research and clinical medicine

Adenosine and Adenine Nucleotides: From Molecular Biology to Integrative Physiology Luiz Belardinelli, A. Pelleg, 2012-12-06 This book contains a selection of lectures given during the 5th International Symposium on Adenosine and Adenine Nucleotides recently held in Philadelphia Pennsylvania Adenosine and Adenine Nucleotides From Molecular Biology to Integrative Physiology covers a wide range of subjects from molecular and cellular biology to clinical applications A great emphasis has been placed on cutting edge information derived from studies using molecular and cellular biology techniques applied to the field of adenosine and adenine nucleotide research The book also includes information on potentially promising developments in the therapeutic applications of adenosine related drugs and ATP The tradition of past meetings is also maintained by including in the program presentations of new research in the areas of purine metabolism and physiology and pharmacology of adenosine and adenine nucleotides Adenosine and Adenine Nucleotides From Molecular Biology to Integrative Physiology is an excellent up to date reference book for basic and clinical scientists in the field of adenosine and adenine nucleotides

Ecto-ATPases Liselotte Plesner, Terence L. Kirley, Aileen F. Knowles, 2012-12-06 Proceedings of the First International Workshop held in Mar de Plata Argentina August 26 30 1996

Signaling at the Cell Surface in the Circulatory and Ventilatory Systems Marc Thiriet, 2011-12-14 The volumes in this authoritative series present a multidisciplinary approach to modeling and simulation of flows in the cardiovascular and ventilatory systems especially multiscale modeling and coupled simulations The cardiovascular and respiratory systems are tightly coupled as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells Because physiological conduits have deformable and reactive walls macroscopic flow behavior and prediction must be coupled to nano and microscopic events in a corrector scheme of regulated mechanisms when the vessel lumen caliber varies markedly Therefore investigation of flows of blood and air in physiological conduits requires an understanding of the biology chemistry and physics of these systems together with the mathematical tools to describe their functioning Volume 3 is devoted to the set of mediators of the cell surface especially ion and molecular carriers and catalytic receptors that once liganded and activated initiate signal transduction pathways Intracellular cascades of chemical reactions trigger the release of substances stored in cellular organelles and or gene transcription and protein synthesis Primary mediators are included in models of regulated cellular processes but multiple secondary signaling components are discarded to allow simple representative modeling and to manage their inverse problems

Cumulated Index Medicus, 1990

Purinergic Pharmacology Francisco Ciruela, Kenneth A. Jacobson, 2019-08-16

Natural Molecules in Neuroprotection and Neurotoxicity Marcos Roberto de Oliveira, 2023-12-22 Natural Molecules in Neuroprotection and Neurotoxicity brings together research in the area of natural compounds and their dual effects of neuroprotection and neurotoxicity when interacting with brain cells This book is organized into four sections that address molecular mechanism underlying neuroprotection and neurotoxicity neuroprotection mediated by natural molecules neurotoxicity induced by natural compounds and nanotechnology related strategies utilized in neuroprotection Written by well known researchers all over the world chapters provide an in depth analysis of numerous molecules such as algae plant and fungus derived molecules and comprehensively discuss their mechanisms of action and possible clinical applications This book provides an essential reference for researchers and clinical scientists interested in the effects of natural compounds on the human health and disease Covers both neuroprotective and neurotoxic outcomes resulted from the exposure of brain cells to natural molecules Analyzes numerous natural compounds including animal vegetal fungal bacterial and marine derived molecules Discusses the effects of the metabolism of microbiota on the biotransformation of natural molecules and the consequences of these processes on brain cells Contains a section focused on the nanotechnology related strategies utilized to enhance the bioavailability of natural molecules to brain cells

Adenosine and Adenine Nucleotides As Regulators of Cellular Function John W. Phillis, 2024-12-06 This book provides valuable information for investigators interested in the signaling and regulatory functions of adenosine and the adenine

nucleotides Topics covered in this comprehensive volume include the historical development of research on adenosine and adenosine triphosphate various aspects of the formation metabolism release transport and receptors for endogenous adenosine and the adenosine triphosphate functions of purines at the cellular level the role of adenosine in the regulation of flow in different vascular beds and angiogenesis The book also addresses the purinergic regulation of the cardiac renal gastro intestinal and central nervous system as well as potential therapeutic avenues for purine use The book will be valuable to physiologists pharmacologists and other basic and clinical scientists interested in updating their knowledge of the expanding biological roles of these substances

ATP-gated P2X receptors in health and disease Andrea

Nistri, Geoffrey Burnstock, Baljit S Khakh, Rashid Giniatullin, 2015-01-05 Extracellular ATP is currently recognized as one of the most widely distributed neurotransmitters and neuromodulators in the peripheral and central nervous system ATP gated P2X receptors are expressed by neurons glial and many other non neuronal cells and represent an attractive target for therapeutic interventions Diverse molecular and cellular mechanisms have been identified for P2X receptor functioning including the ability to enlarge the size of the ion pore associated with the release of several key immune molecules A major recent breakthrough was the determination of the X ray crystal structures of zebrafish P2X4 receptor in ATP bound and ATP free states The P2X receptor research field is rapidly growing as evidenced by the almost 2000 papers published in the last 5 years However despite the fundamental signalling function of extracellular ATP in the nervous system the widespread roles of P2X receptors have not been widely elucidated and presented in textbooks In this volume of papers we aim to gather a collection of high quality papers detailing the latest insights from the most accomplished international P2X receptor researchers Importantly basic research into P2X receptors has a strong translational impact and our collection of articles could be a valuable guide for the development of new pharmacological and biotechnological tools addressing the function of P2X receptors Within this collection we plan to cover receptor structure function relationships receptors trafficking to highlight the special properties of P2X receptors and their pharmacological profiles and to describe the translational aspects of cellular ATP signaling in pain and in other neurological and vascular diseases

Glioma Signaling Jolanta

Barańska, 2012-08-10 Glioma Signaling is a text reference on cellular signaling processes focused on the mechanism of nucleotide receptors activation by exogenic nucleotides and the formation of complex signaling cascades including cytoplasmic transcription factors induced by growth factors cytokines and cannabinoids The book provides a framework explaining how signal transduction elements may modulate glioma cytoskeleton structure cytoplasmic calcium concentration changes cellular growth progression and invasion as well as presents perspective concerning potential targets for glioma therapy

Purinergic and Pyrimidinergic Signalling Maria P. Abracchio, Michael Williams, 2001-02-12 Physiological

pharmacological and molecular biological data generated over the past three decades have demonstrated the existence of two major families of extracellular receptors the P1 a family of four G protein coupled receptors and the P2 a family of at

least 12 receptors responsive to purine ATP ADP and pyrimidine UTP nucleotides through which adenosine and ATP can function as extracellular messengers The present two part volume represents an integrated compendium of invited chapters by leading researchers in the area focusing on advances in the understanding of purinergic and pyrimidinergic signaling systems their role s in tissue function and pathophysiology and advances in developing potential new medications based on the modulation of P1 and P2 receptor signaling processes The volumes will thus provide the reader with a topical comprehensive and integrated overview of this important area

Middleton's Allergy: Principles and Practice E-Book

N. Franklin Adkinson Jr.,2008-11-27 This best selling resource has a worldwide reputation as the leader in its field Focusing on human immunology and biology while also reporting on scientific experimentation and advancement it provides comprehensive coverage of state of the art basic science as well as authoritative guidance on the practical aspects of day to day diagnosis and management This new edition includes 700 full color illustrations and a new more accessible format to make finding information a snap for the busy practitioner And this Expert Consult Edition offers online access to the complete contents of the 2 volume set fully searchable and much more Includes a glossary of allergy and immunology for quick and easy reference Contains keypoints and clinical pearls highlighted to find important information quickly links to useful online resources both for you and for your patients Offers contributions from hundreds of international authorities for world class expertise in overcoming any clinical challenge Contains 400 new illustrations 700 in all to better illustrate complex immunology Covers the very latest in the field including hot topics such as food allergy and immunotherapy Includes the latest guidelines from The National Asthma Education and Prevention Program NAEPP Utilizes a new more user friendly full color format for easier reference Includes online access to the entire contents of the book fully searchable with links to MEDLINE abstracts for all of the references

Purinergic Signalling in Neuron-Glia Interactions Derek J. Chadwick,Jamie A. Goode,2006-05-01 ATP the intracellular energy source is also an extremely important cell cell signalling molecule for a wide variety of cells across evolutionarily diverse organisms The extracellular biochemistry of ATP and its derivatives is complex and the multiple membrane receptors that it activates are linked to many intracellular signalling systems Purinergic signalling affects a diverse range of cellular phenomena including ion channel function cytoskeletal dynamics gene expression secretion cell proliferation differentiation and cell death Recently this class of signalling molecules and receptors has been found to mediate communication between neurons and non neuronal cells glia in the central and peripheral nervous systems Glia are critical for normal brain function development and response to injury Neural impulse activity is detected by glia and purinergic signalling is emerging as a major means of integrating functional activity between neurons glia and vascular cells in the nervous system These interactions mediate effects of neural activity on the development of the nervous system and in association with injury neurodegeneration myelination and cancer Bringing together contributions from experts in diverse fields including glial biologists neurobiologists and specialists in purinergic receptor structure and

pharmacology this book considers how extracellular ATP acts to integrate communication between different types of glia and between neurons and glia Beginning with an overview of glia and purinergic signalling it contains detailed coverage of purine release receptors and reagents purinergic signalling in the neural control of glial development glial involvement in information processing and discussion of the interactions between neurons and microglia **The Pathophysiology of**

Biliary Epithelia Gianfranco Alpini, 2020-02-03 This book is a comprehensive review of the biliary epithelia pathophysiology Biliary epithelial cells also referred to as cholangiocytes line the intra and extrahepatic bile ducts Cholangiocytes have emerged in the last several years as one of the more important epithelial cells in the gastrointestinal system due to their large contribution to bile formation and tendency to be involved in human diseases The book's 35 chapters represent a nearly complete review of the function and disease of bile ducts The gestational development of bile ducts is shown to be a complex interaction between hepatocyte and biliary precursors The structure of bile ducts can be defined by ultrastructural studies and by 3D reconstruction studies which show that the bile duct system resembles a tree The array of membrane transporters and channels involved in ductal absorption and secretion of water and electrolytes is reviewed Like other gastrointestinal epithelial cells the physiologic responses of cholangiocytes are regulated by hormones nerve input cytokines factors in bile and intracellular signals e.g. cyclic AMP and intracellular calcium The potential role of the cholangiocyte in production of collagen in cholestatic liver disease is discussed A number of important models used in the study of cholangiocyte physiology and reactions to injury are reviewed Finally the relationships between the cholangiocyte responses and human liver diseases are discussed While many basic scientists and hepatologists who devote their careers to the study of the liver will find this book useful the intended audience of this book is the more heterogeneous group of individuals who study clinical and/or basic science digestive physiology and due to their interest in epithelial function will find the cutting edge information in this book both enlightening and useful to their progression of their work

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