

The P2 Nucleotide Receptors

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The P2 Nucleotide Receptors The Receptors

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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

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

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 1990s

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

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

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

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

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