

Purines In Cellular Signaling

Kenneth A Jacobson, Joel Linden

Purines In Cellular Signaling:

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 gov ernment and the pharmaceutical industry Cellular Signal Processing Friedrich Marks, Ursula Klingmüller, Karin Müller-Decker, 2017-05-17 Cellular Signal Processing offers a unifying view of cell signaling based on the concept that protein interactions act as sophisticated data processing networks that govern intracellular and extracellular communication It is intended for use in signal transduction courses for undergraduate and graduate students working in biology biochemistry bioinformatics and pharmacology as well as medical students The text is organized by three key topics central to signal transduction the protein network its energy supply and its evolution It covers all important aspects of cell signaling ranging from prokaryotic signal transduction to neuronal signaling and also highlights the clinical aspects of cell signaling in health and disease This new edition includes expanded coverage of prokaryotes as well as content on new developments in systems biology epigenetics redox signaling and small non coding RNA signaling Cellular Signaling in Health and Disease Martin Beckerman, 2009-05-28 In today s world three great classes of non infectious diseases the metabolic syndromes such as type 2 diabetes and atherosclerosis the cancers and the neurodegenerative disorders have risen to the fore These diseases all associated with increasing age of an individual have proven to be remarkably complex and difficult to treat This is because in large measure when the cellular signaling pathways responsible for maintaining homeostasis and health of the body become dysregulated they generate equally stable disease states As a result the body may respond positively to a drug but only for a while and then revert back to the disease state Cellular Signaling in Health and Disease summarizes our current understanding of these regulatory networks in the healthy and diseased states showing which molecular components might be prime targets for drug interventions This is accomplished by presenting models that explain in mechanistic molecular detail how a particular part of the cellular signaling web operates properly in health and improperly in disease The stability of the health and disease associated states is dynamic and supported by multiple feedback loops acting positively and negatively along with linkages between pathways During the past few years an ongoing series of important discoveries have been made that advance our understanding of how the body works and may guide us on how to better deal with these diseases These include the discovery of chronic inflammation as a causal factor in all of these disease classes the appearance

of reactive oxygen species as a messenger molecule that can act both positively and negatively the propensity of proteins to misfold into aggregation and disease prone forms and the rise of epigenetics including the emergence of small non coding RNA with important regulatory functions out of the so called junk RNA Chapters are devoted to each of these classes of findings with additional details integrated into the chapters dealing directly with the diseases The connections responsible for maintaining stability are explored in depth 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 Airways Smooth Muscle: Neurotransmitters, Amines, Lipid Mediators and Signal Transduction David Raeburn, Mark A. Giembycz, 2012-12-06

Purines and Myocardial Protection Anwar-Saad A. Abd-Elfattah, Andrew S. Wechsler, 2012-12-06 A critical review of the most up to date research on purines and myocardial protection. The role of purines in reversible myocardial stunning and irreversible myocardial infarction ischemic injury ventricular arrhythmias and ischemic preconditioning is discussed in detail by experts All reviews address recent and rather controversial issues on purines and myocardial protection Mechanisms of cardioprotection of exogenous versus endogenous purines are discussed in detail The contribution of internationally recognized experts in the field of purines and cardiovascular physiology and in myocardial protection makes this a unique and interesting book for clinicians basic scientists and students Transduction Mechanisms in Cellular Signaling Edward A. Dennis, Ralph A. Bradshaw, 2011-04-12 Cell signaling which is also often referred to as signal transduction or in more specialized cases transmembrane signaling is the process by which cells communicate with their environment and respond temporally to external cues that they sense there All cells have the capacity to achieve this to some degree albeit with a wide variation in purpose mechanism and response At the same time there is a remarkable degree of similarity over quite a range of species particularly in the eukaryotic kingdom and comparative physiology has been a useful tool in the development of this field The central importance of this general phenomenon sensing of external stimuli by cells has been appreciated for a long time but it has truly become a dominant part of cell and molecular biology research in the past three decades in part because a description of the dynamic responses of cells to external stimuli is in essence a description of the life process itself This approach lies at the core of the developing fields of proteomics and metabolomics and its importance to human and

animal health is already plainly evident Provided by publisher New insights into mucosal-associated lymphoid tissues in fish Umasuthan Navaneethaiyer, Teruyuki Nakanishi, Samuel A. M. Martin, Javier Santander, 2023-06-01 Peroxisomes and their Kev Role in Cellular Signaling and Metabolism Luis A. del Río, 2013-07-03 Peroxisomes are a class of ubiquitous and dynamic single membrane bounded cell organelles devoid of DNA with an essentially oxidative type of metabolism In recent years it has become increasingly clear that peroxisomes are involved in a range of important cellular functions in almost all eukaryotic cells In higher eukaryotes including humans peroxisomes catalyze ether phospholipids biosynthesis fatty acid alpha oxidation glyoxylate detoxification etc and in humans peroxisomes are associated with several important genetic diseases In plants peroxisomes carry out the fatty acid beta oxidation photorespiration metabolism of ROS RNS and RSS photomorphogenesis biosynthesis of phytohormones senescence and defence against pathogens and herbivores In recent years it has been postulated a possible contribution of peroxisomes to cellular signaling In this volume an updated view of the capacity and function of peroxisomes from human animal fungal and plant origin as cell generators of different signal molecules involved in distinct processes of high physiological importance is presented Neuroglia Helmut Kettenmann, Bruce R. Ransom, 2013 Neuroglia the third edition is the long awaited revision of the most highly regarded reference volume on glial cells This indispensable edition has been completely revised greatly enlarged and enhanced with four color figures throughout all in response to the tremendous amount of new information that has accumulated since the previous edition seven years ago Glial cells are without doubt the new stars in the neuroscience and neurology communities Neglected in research for years it is now evident that the brain only functions in a concerted action of all the cells namely glia and neurons Seventy one chapters comprehensively discuss virtually every aspect of normal glial cell anatomy physiology biochemistry and function and consider the central roles of these cells in neurological diseases including stroke Alzheimer disease multiple sclerosis Parkinson s disease neuropathy and psychiatric conditions More than 20 new chapters have been added to accommodate the unprecedented growth of knowledge about the basic biology of glia and the sophisticated manner in which they partner with neurons in the course of normal brain function Lavishly illustrated and meticulously edited the third edition remains the most convenient and maximally useful reference available This new edition is an essential reference for both newcomers to the field as well as established investigators Neuroglia belongs on every neuroscientist s bookshelf and will be a great asset for educators and neurological clinicians as well **Pharmacology of Purine and Pyrimidine Receptors** Kenneth A Jacobson, Joel Linden, 2011-06 This is an overview of the fast moving field of purinergic signalling through adenosine and ATP receptors Authors are the leading authorities in their fields Subject matter is important for understanding tissue protection Subject matter is of intense interest for new drug development Basic Neurochemistry Scott T. Brady, PhD, George J. Siegel, MD, R. Wayne Albers, Donald L. Price, 2012 Includes bibliographical references and index Comprehensive Toxicology, 2010-06-01 An explosive increase in the knowledge of the effects of chemical and

physical agents on biological systems has led to an increased understanding of normal cellular functions and the consequences of their perturbations The 14 volume Second Edition of Comprehensive Toxicology has been revised and updated to reflect new advances in toxicology research including content by some of the leading researchers in the field It remains the premier resource for toxicologists in academia medicine and corporations Comprehensive Toxicology Second Edition provides a unique organ systems structure that allows the user to explore the toxic effects of various substances on each human system aiding in providing diagnoses and proving essential in situations where the toxic substance is unknown but its effects on a system are obvious Comprehensive Toxicology Second Edition is the most complete and valuable toxicology work available to researchers today Contents updated and revised to reflect developments in toxicology research Organized with a unique organ system approach Features full color throughout Available electronically on sciencedirect com as well as in a limited edition print version Natural Compounds and Their Role in Apoptotic Cell Signaling Pathways, Volume 1171 Marc Diederich, 2009-09-08 Apoptosis is a highly regulated mechanism by which cells undergo cell death in an active way As one of the most challenging tasks concerning cancer is to induce apoptosis in malignant cells researchers increasingly focus on natural products to modulate apoptotic signaling pathways This book reviews the main effects of natural compounds on the different apoptotic signaling pathways including the intrinsic and extrinsic apoptosis pathways the NF kB mediated pathway the PI3K Akt signaling and other main pathways Among the topic specially covered are Effects of natural compounds on cancer cells Natural compounds as inducers of cell death Diet in health and disease Inflammation and cancer Natural compounds as kinase inhibitors Natural compounds in neurodegenerative diseases Natural compounds as inhibitors of ROS NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www blackwellpublishing com nyas ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www nyas org Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit www nyas org MemberCenter Join aspx for more information about becoming a member **Cardiovascular Biology of Purines** Geoffrey Burnstock, James G. Dobson Jr., Bruce T. Liang, Joel Linden, 2012-12-06 Following many years when a great deal of attention was directed towards the intracellular roles of purines there is expanding interest in the field of extracellular purinergic signalling In this book we focus on the actions of purines in cardiovascular biology where it is clear that they play major roles in both normal and pathophysiological conditions Activation of different purinoceptor subtypes by purines can regulate cardiac contractility and electrical activity modulate catecholamine mediated responses both pre and post junctionally trigger and mediate ischaemic preconditioning cause vasodilation and vasoconstriction and enhance endothelial proliferation and apoptosis as well as inhibit platelet and neutrophil function This book covers the cardiovascular actions mediated by the major P1 and P2 subclasses of purinoceptors and emphasizes the interactions between these two signalling systems Cardiovascular Biology of Purines covers topics ranging from molecular and cellular to systemic and clinical It also aims to highlight how basic advances have led to the identification of novel targets for cardiovascular therapeutic developments. We hope that our book will prove to be timely and helpful Nutrition and Infectious Diseases Debbie L. Humphries, Marilyn E. Scott, Sten H. Vermund, 2020-12-10 This comprehensive and user friendly volume focuses on the intersection between the fields of nutrition and infectious disease It highlights the importance of nutritional status in infectious disease outcomes and the need to recognize the role that nutrition plays in altering the risk of exposure and susceptibility to infection the severity of the disease and the effectiveness of treatment Split into four parts section one begins with a conceptual model linking nutritional status and infectious diseases followed by primers on nutrition and immune function that can serve as resources for students researchers and practitioners Section two provides accessible overviews of major categories of pathogens and is intended to be used as antecedents of pathogen focused subsequent chapters as well as to serve as discrete educational resources for students researchers and practitioners The third section includes five in depth case studies on specific infectious diseases where nutrition infection interactions have been extensively explored diarrheal and enteric disease HIV and tuberculosis arboviruses malaria and soil transmitted helminths The final section addresses cross cutting topics such as drug nutrient interactions co infections and nutrition infection and climate change and then concludes by consolidating relevant clinical and public health approaches to addressing infection in the context of nutrition and thus providing a sharp focus on the clinical relevance of the intersection between nutrition and infection Written by experts in the field Nutrition and Infectious Diseases will be a go to resource and guide for immunologists clinical pathologists sociologists epidemiologists nutritionists and all health care professionals managing and treating patients with infectious diseases **Purinergic Pharmacology** Francisco Ciruela, Kenneth A. Jacobson, 2019-08-16 Extracellular ATP and adenosine as regulators of endothelial cell function Evgenia Gerasimovskaya, Elzbieta Kaczmarek, 2010-04-26 Extracellular purines and pyrimidines ATP ADP UTP and adenosine are released into the extracellular milieu in response to a variety of stress conditions and act as important regulators of vascular homeostasis This new book is uniquely focused on the signaling actions of extracellular purines in endothelial cells and the crucial role of extracellular purines in regulation of angiogenesis vascular tone cell permeability wound healing inflammation and cell to cell communication This book examines the responses of endothelial cells originating from various tissues such as cornea pancreas and uterus to extracellular nucleotides and adenosine under physiological and pathological conditions i e pregnancy hypoxia hypertension inflammation and diabetes In the book s 12 chapters the role of purinergic signaling in endothelium dependent tissue perfusion regulation of endothelial barrier function and angiogenesis are discussed The mechanisms of ATP release and its role in intercellular communication are also presented In addition the book provides the most up to date mechanisms of extracellular nucleotide metabolism by purine converting ecto enzymes and their contribution to purinergic signaling in endothelial cells originating from various vascular beds This book is a valuable

resource for biomedical research scientists clinical scientists graduate students and health science professionals interested in the mechanisms of extracellular purine function in endothelial cells under physiologic and pathologic conditions Purine and Pyrimidine Metabolism in Man VIII Amrik Sahota, Milton W. Taylor, 2013-11-11 These volumes record the presentations made at the VIII International Symposium on Purine and Pyrimidine Metabolism in Manheld at Indiana University Bloomington USA from May 22 May 27 1994 This was a continuation of meetings held every three years with the idea of bringing clinicians and basic scientists together which we hope results in cross fertilization of ideas Some of the papers presented in this volume represent oral contributions and others are from posters but we emphasize that both are considered of equal merit As is obvious from a perusal of the titles of the papers there has been a shift in the focus of this meeting which reflects a general shift in the area of purine and pyrimidine metabolism. The emphasis has definitely shifted to gene structure and molecular genetics with the beginnings we hope of gene therapy as an important branch of this area of science Although many of the inherited diseases discussed in this text can be treated with drugs the major thrust in the future will be in gene therapy where the gene or cDNA will be used to treat the patient with enzyme deficiency particularly if the patient is young As can be seen from the list of authors there is a remarkable degree of international cooperation in this area across countries and continents We thank the many participants who have attended these symposia many times and we welcome the large group of scientists from Eastern Europe who are attending this meeting for the first time Metabolic Interaction in <u>Infection</u> Ricardo Silvestre, Egídio Torrado, 2018-04-06 This book focuses on host pathogen interactions at the metabolic level It explores the metabolic requirements of the infectious agents the microbial metabolic pathways that are dedicated to circumvent host immune mechanisms as well as the molecular mechanisms by which pathogens hijack host cell metabolism for their own benefit Finally it provides insights on the possible clinical and immunotherapeutic applications as well as on the available experimental and analytical methods The contributions break new ground in understanding the metabolic crosstalk between host and pathogen

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