

GAP JUNCTION-MEDIATED INTERCELLULAR SIGNALING IN HEALTHY AND DISEASE



Gap Junction Mediated Intercellular Signalling In Health And Disease

Philip Wexler, Bruce D. Anderson



Gap Junction Mediated Intercellular Signalling In Health And Disease:

Gap Junction-Mediated Intercellular Signalling in Health and Disease Gail Cardew, 2008-04-30 Gap junctions are key elements in communication between cells in multicellular organisms. It is clear that their activity is essential for normal embryonic development and normal function in adult organs although the individual roles of the proteins that form the channels, connexins, are not yet fully understood. The last few years have seen considerable progress in this field and exciting new issues concerning gap junctional intercellular communication are being raised. Perturbed gap junction activity is beginning to be linked to certain pathologies, e.g. mutations in the major connexin of the heart have been found in human patients suffering from viscerotaxial heterotaxia syndrome and mutations in the gene encoding another connexin have been found in patients with Charcot Marie Tooth disease. This book is the first to highlight the recent progress in understanding gap junction structure and to discuss the specific roles of individual connexins. It features contributions from an interdisciplinary group of experts who review the role of gap junctions in the heart, the retina and lens, the auditory system, the reproductive system and in cell proliferation and cancer. The book will appeal to people interested in cell and molecular biology, embryonic development, neurobiology, cardiology, gynaecology and oncology.

Gap Junctions: Molecular Basis of Cell Communication in Health and Disease Dale J. Benos, Camillo Peracchia, 1999-12-14 Since the first gap junction protein, connexin, was cloned over a decade ago, more than a dozen connexin genes have been cloned. Consequently, a wealth of information on the molecular basis of gap junctional communication has been accumulated. This book pays tribute to this exciting era in the history of cell communication research by documenting the great strides made in this field as a result of the merging of biophysics and molecular biology, two of the most powerful approaches to studying the molecular basis of membrane channel behavior. Twenty-eight comprehensive chapters authored by internationally recognized leaders in the field discuss the biophysical, physiological and molecular characteristics of cell-to-cell communication via gap junctions. Key aspects of molecular structure, formation, gating, conductance and permeability of vertebrate and invertebrate gap junction channels are highlighted. In addition, a number of chapters focus on recent discoveries that implicate connexin mutations and alterations of gap junctional communication in the pathogenesis of several diseases, including the X-linked Charcot Marie Tooth demyelinating disease, some forms of inherited sensorineural deafness, malignant transformation, cardiac malformations and arrhythmia, eye lens cataract and Chagas disease.

Heart Cell Coupling and Impulse Propagation in Health and Disease Walmar C. de Mello, M.J. Janse, 2012-12-06 *Heart Cell Coupling and Impulse Propagation in Health and Disease* includes an up-to-date review on how heart cells communicate and impulse propagation under normal as well as under pathological conditions. The complexity of intercellular coupling and impulse propagation is discussed, providing the reader with a broad view of the importance of these processes and how they contribute to the generation of cardiac arrhythmias and heart failure. The different aspects and intricacies of heart cell communication are discussed by different authors, each one an

expert in their own field The present publication will be of interest to cardiologists electrophysiologists heart physiologists cardiac pharmacologists biophysicists and cell or molecular biologists Cumulated Index Medicus ,1994

Cardiovascular Signaling in Health and Disease Narasimham L. Parinandi,Thomas J. Hund,2022-09-21 This contributed volume focuses on cardiovascular diseases CVDs and explores the ways in which signaling mechanisms at the biochemical molecular and cellular levels in the blood vessels vascular and heart contribute to the underlying causes of development and progression of the CVDs This volume covers unique topics such as oxidant signaling in vascular and heart diseases and health cytoskeletal signaling in vascular health and disease phospholipase signaling in CVDs lipid signaling in vascular and myocardial health and diseases and drug discovery in cellular signaling for cardiovascular diseases This book assembles the most important discoveries made by leaders on the cellular signaling mechanisms operating behind the development and progression of life threatening CVDs It is an extremely useful resource for the investigators in the field of CVDs and opens the discussion for further discovery of efficient management and effective treatment of the CVDs **God, Science and Mind** Dennis Polis,2012-07-15 An exercise in Open Philosophy a worldview open to the full range of human experience including science spirituality and traditional philosophy Naturalism is exposed as a closed a priori worldview God is not an alternative to but the completion of scientific explanation The foundations and data of evolution do not show randomness but Mind in nature Evolution aims at verifiable targets and develops means in advance of need While God is proven deductively the fine tuning argument makes a strong case despite the anthropic principle The rules of evidence are discussed critically before reviewing data on mind ranging from neuroscience connectionism cybernetics to introspection parapsychology near death experiences mysticism even I Thou relationships Current theories are inadequate to important data points Traditional philosophy suggests a single substance two subsystem theory integrating a data processing brain and an intentional immaterial soul to solve the mind body problem Ion Channels and Transporters of Epithelia in Health and Disease Kirk L. Hamilton,Daniel C Devor,2015-12-14 This book sheds new light on the physiology molecular biology and pathophysiology of epithelial ion channels and transporters It combines the basic cellular models and functions by means of a compelling clinical perspective addressing aspects from the laboratory bench to the bedside The individual chapters written by leading scientists and clinicians explore specific ion channels and transporters located in the epithelial tissues of the kidney intestine pancreas and respiratory tract all of which play a crucial part in maintaining homeostasis Further topics include the fundamentals of epithelial transport mathematical modeling of ion transport cell volume regulation membrane protein folding and trafficking transepithelial transport functions and lastly a discussion of transport proteins as potential pharmacological targets with a focus on the pharmacology of potassium channels *Neuroglia in the Aging Brain* Jean de Vellis,2001-11-06 A distinguished panel of internationally recognized neuroscientists comprehensively review the involvement of and changes in glial cells both during the normal aging process and in the major disorders of old age Topics

range from the cellular and molecular changes that occur with aging especially aging associated activation of astrocytes and microglia and its relation to neuronal injury and repair to neuron glia intercommunication The contributors show how glial signals may be modulated by hormones growth factors neurotransmitters intracellular metabolism and intercellular exchanges as well as by aging of the blood brain barrier *Heart Cell Communication in Health and Disease* Walmor C. de Mello, Michiel J. Janse, 2012-12-06 In *Heart Cell Communication in Health and Disease* an extensive review of different aspects of heart cell communication is presented The book starts with the fundamental concept that cardiac cells are communicated and then proceeds to the role of gap junctions in heart development the molecular biology of gap junctions the biophysics of the intercellular channels the control of junctional conductance and the influence of gap junctions on impulse propagation This is the first time that a single volume has described cell communication in the normal heart and under different pathological conditions such as heart failure coronary disease myocardial ischemia and cardiac arrhythmias In this way the process of cell communication is analyzed at different levels of complexity providing the reader with a wide view of this field and its relevance to cardiology Cardiac Remodeling and Failure Pawan K. Singal, Ian M.C. Dixon, Lorrie A. Kirshenbaum, Naranjan S. Dhalla, 2012-12-06 According to the World Health Report 2000 <http://www.who.int/whr> of the 55 million deaths worldwide in 1999 more than 16 million were secondary to cardiovascular complications With the prospect of world population increasing from the current level of 6 billion to 9 billion by the middle of this century the burden of cardiac disease is going to increase astronomically Furthermore scientists are being challenged not only to reduce mortality but also to improve quality of life Thus more than ever intellectuals from different disciplines including biology sociology informatics and health care have to join forces to meet the mandate The World Heart Congress with a focus on Frontiers in Cardiovascular Health held in Winnipeg during July 6-11 2001 made a unique attempt to bring these specialists together to brainstorm and map out the course of action for cardiovascular research and health in the next century Anytime there is a relative increase in the workload on the heart there are adaptive myocardial as well as humoral responses When these adaptations or remodeling at the organ subcellular or gene level become inadequate for a proper tissue perfusion the condition of heart failure ensues Prevention of the factors leading to the relative increase in workload as well as a better understanding of the adaptive responses and their failure are some of the hopes to combat the morbidity and mortality due to heart failure Phytochemicals in Health and Disease Yongping Bao, Roger Fenwick, 2004-05-24 well written and the content is clearly presented There are plentiful figures and tables which are effectively labeled and adequately support the content highly recommended for academic and special libraries effectively presents current research on phytochemicals in a readable manner *E Streams* This landmark volume shows how far the field has advanced This important volume is filled with reports on what the editors term as the new era in the study of phytochemicals in which we move from the eat more vegetable and fruit admonition to more detailed information on the biology molecular biology regulatory function and role in

human health of phytochemicals All workers in phytochemicals should get themselves a copy of this valuable book **Gap Junctions in Development and Disease** Elke Winterhager,2005-11-04 Communication between cells via intercellular channels gap junctions appears essential to certain developmental processes and appropriate organ function Gap Junctions in Development and Disease aims to describe the molecular events underlying impaired development and disease Beginning with a comprehensive review of various mouse and human genes encoding the channel forming connexins later chapters describe several connexin mutations associated with human diseases such as hereditary deafness and female infertility Erroneous signaling mediated by the interaction of mutant connexins with other proteins thought to be responsible for dysfunction of organs such as heart muscle brain skin lens placenta and endocrine tissue in both mice and men is also addressed Although the question of why some mutations in gap junction proteins lead to specific phenotypes remains to be answered the reviews in this book provide an intriguing insight into the future direction of this research field

Encyclopedia of Toxicology Philip Wexler,Bruce D. Anderson,2005 The Encyclopedia of Toxicology second edition continues its comprehensive survey of toxicology This new edition presents entries devoted to specific chemicals the international scope of organizations included has been broadened and articles describing a number of well known toxic related incidents such as Chernobyl and Three Mile Island are included Along with the traditional scientifically based entries new articles focus on the societal implications of toxicological knowledge including environmental crimes chemical and biological warfare in ancient times and a history of the U S environmental movement With more than 1150 entries this second edition has been expanded in length breadth and depth and provides an extensive overview of the many facets of toxicology Midwest Connexins Andrew Harris,Darren Locke,2008-11-09 Connexins A Guide is a practical and valuable reference and text covering a wide scope of information about the connexin family of membrane channel proteins The editors and contributing authors intend for this cutting edge work to be informative to scientists wishing to learn about the field as well as to those who are active researchers in this area Connexins A Guide masterfully addresses specific needs of the scientific community it is a comprehensive and comprehensible narrative of the uncommonly diverse connexin field making previously hard to find information easily accessible while also presenting intelligible insights into the extensive experimental methods and conceptual frameworks necessary to appreciate and understand the important roles that connexin channel proteins play in health and disease **The Functional Roles of Glial Cells in Health and Disease** Rebecca Matsas,Marco Tsacopoulos,2012-12-06 Thirty five years ago when Stephen Kuffler and his colleagues at Harvard initiated a new era of research on the properties and functions of neuroglial cells very few neuro scientists were impressed at the time with the hypothesis that neuroglial cells could have another though more subtle role to play in the nervous system than to provide static support to neurons Today very few neuroscientists are unaware of the fact that multiple interactions between neurons and glial cells have been described and that they constitute the basis for understanding the function and the

pathology of the nervous system Glial cells outnumber neurons and make up about one half of the bulk of the nervous system They are divided into two major classes first the macroglia which include astrocytes and oligodendrocytes in the central nervous system and the Schwann cells in the peripheral nervous system and second the microglial cells These different classes of glial cells have different functions and contribute in different ways in the development function and the pathology of the nervous system

Regenerating the Heart Ira S. Cohen, Glenn R. Gaudette, 2011-03-23 Medical research made huge strides in treating heart disease in the 20th century from drug eluting stents to automatic internal defibrillators Public awareness of the dangers of heart disease has never been more pervasive Now though ten years into a new millennium scientists are gearing up for the next great challenges in tackling this pervasive condition Cell therapy is going to be a key weapon in the fight against heart disease It has the potential to address many cardiovascular conditions From heart failure to atrioventricular nodal dysfunction the young but promising field of cell therapy is set to play a significant role in developing the cures that the upcoming decades of hard work will yield Regenerating the Heart Stem Cells and the Cardiovascular System organizes the field into a digestible body of knowledge Its four sections cover mechanical regeneration electrical regeneration cardiac tissues and in vivo stem cell therapies An array of talented researchers share the fruits of their labors with chapters covering such crucial issues as the cardiogenic potential of varying stem cell types the ways in which they might be used to tackle arrhythmias their possible application to biological replacements for cardiac tissues such as valves and the varying approaches used in the in vivo evaluation of stem cell therapies including methods of delivering stem cells to the myocardium This comprehensive survey of an area of research with such exciting potential is an invaluable resource both for veteran stem cell researchers who need to monitor fresh developments and for newly minted investigators seeking inspirational examples

Principles of Bone Biology John P. Bilezikian, T. John Martin, Thomas L. Clemens, Clifford Rosen, 2019-08-22 Preface from the first edition 1996 The world of modern science is undergoing a number of spectacular events that are redefining our understanding of ourselves As with any revolution we should take stock of where we have been where we are and where we are going Our special world of bone biology is participating in and taking advantage of the larger global revolution in modern science we assembled experts from all over the world and asked them to focus on the current state of knowledge and the prospects for new knowledge in their area of expertise To this end Principles of Bone Biology was conceived John P Bilezikian Lawrence G Raisz Gideon A Rodan Praise for the previous edition Students teachers and practitioners will benefit from reading it and investigators will use it as a reference work it will certainly be consulted frequently The New England Journal of Medicine For over two decades Big Gray has been the go to repository of knowledge in the disciplines related to bone and mineral metabolism The fourth edition is a must have for students new to the field young investigators at the graduate or postgraduate level beginning their research careers established scientists who need to keep up with the changing nature of the field looking to enrich their own research programs or who are changing their

career direction clinicians who want ready access to up to date relevant basic science This new edition builds on the successful formula from previous editions taking the reader from the basic elements of fundamental research to the most sophisticated concepts in therapeutics Principles of Bone Biology Fourth Edition provides the most comprehensive authoritative reference on the study of bone biology and related diseases Bone research continues to generate enormous attention due to the broad public health implications of osteoporosis and related bone disorders This classic fully updated two volume reference is designed for anyone involved in the study of bone biology Provides a one stop shopping paradise Anything you want to find about bone biology is here and written by the world s experts THE essential resource for anyone involved in the study of the skeleton and metabolic bone diseases Covers everything from the basic scientific concepts to the underlying principles of therapeutics and management Allows readers to easily search and locate information quickly in the online format Volumes include Basic Principles Molecular Mechanisms of Metabolic Bone Disease Pharmacological Mechanisms of Therapeutics Methods in Bone Research *Studies of Epithelial Transporters and Ion Channels* Kirk L. Hamilton, Daniel C. Devor, 2021-03-04 This book discusses unique ion channels and transporters that are located within epithelial tissues of various organs including the kidney intestine pancreas and respiratory tract The authors will show that each of these channels and transporters play crucial roles in transepithelial ion and fluid transport across epithelia and their responsibility in maintaining homeostasis The reader gains an understanding of the fundamentals of epithelial ion transport in terms of function modelling regulation trafficking structure and pharmacology This is the third of three volumes highlighting the importance of epithelial ion channels and transporters in basic physiology and pathophysiology of human diseases The focus of this volume lies with different ion channel and transporter families Additionally this volume benefits from pharmaceutical contributors and their insights into recent pre clinical drug discovery efforts and results from clinical trials Overall these chapters offer a more thorough coverage of individual epithelial ion channels and transporters from the 1st Edition along with eleven new chapters That makes Volume 3 an insightful contribution for physiology students scientists and clinicians **Encyclopedia of Toxicology** Bruce Anderson, Ann de Peyster, Shayne C. Gad, P.J. Bert Hakkinen, Michael Kamrin, Betty Locey, Harihara M. Mehendale, Carey Pope, Lee Shugart, 2005-05-31 The second edition of the Encyclopedia of Toxicology continues its comprehensive survey of toxicology This new edition continues to present entries devoted to key concepts and specific chemicals There has been an increase in entries devoted to international organizations and well known toxic related incidents such as Love Canal and Chernobyl Along with the traditional scientifically based entries new articles focus on the societal implications of toxicological knowledge including environmental crimes chemical and biological warfare in ancient times and a history of the U S environmental movement With more than 1150 entries this second edition has been expanded in length breadth and depth and provides an extensive overview of the many facets of toxicology Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work

plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com Second edition has been expanded to 4 volumes Encyclopedic A Z arrangement of chemicals and all core areas of the science of toxicology Covers related areas such as organizations toxic accidents historical and social issues and laws New topics covered include computational toxicology cancer potency factors chemical accidents non lethal chemical weapons drugs of abuse and consumer products and many more

The Metabolic & Molecular Bases of Inherited Disease ,2001

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