BACTERIAL ION CHANNELS

AND THEIR

EUKARYOTIC HOMOLOGS



edited by Andrzej Kubalski and Boris Martinac

Bacterial Ion Channels And Their Eukaryotic Homologs

Peter Kohl, Frederick Sachs, Michael R. Franz

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Bacterial Ion Channels and Their Eukaryotic Homologs Andrzej Kubalski, Boris Martinac, 2005 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 Sensing with Ion Channels Boris Martinac, 2007-10-30 This is the first book that is not exclusively focused on ion channels functioning in sensory mechanisms that are characteristic of animals and humans but also describes the role of ion channels in signal transduction mechanisms found in microbial cells and plants It summarizes comprehensively the progress that has been made in studies of ion channels and their role in sensory physiology

Mechanically Gated Channels and their Regulation Andre Kamkin, Ilya Lozinsky, 2012-12-05 The volume dwells on the major issues of mechanical stress influencing the ion channels and intracellular signaling pathways This book is a unique collection of reviews outlining current knowledge and future developments in this rapidly growing field In our opinion the book presents not only the latest achievements in the field but also brings the problem closer to the experts in related medical and biological sciences as well as practicing doctors Knowledge of the mechanisms which underlie these processes is necessary for understanding of the normal functioning of different living organs and tissues and allows to predict changes which arise due to alterations of their environment and possibly will allow to develop new methods of artificial intervention. We also hope that presenting the problem will attract more attention to it both from researchers and practitioners and will assist to efficiently introduce it into the practical medicine. Cardiac Mechano-Electric Coupling and Arrhythmias Peter Kohl, Frederick Sachs, Michael R. Franz, 2011-08-25 Ranging from stretch activated ion channels to mechanically induced arrhythmias and mechanical interventions for heart rhythm correction this new edition offers a thoroughly reviewed compendium of chapters written by the top experts in the world on the mechanism and consequences of cardiac mechano.

electrical coupling **Voltage Gated Sodium Channels** Peter C. Ruben, 2014-04-15 A number of techniques to study ion channels have been developed since the electrical basis of excitability was first discovered Ion channel biophysicists have at their disposal a rich and ever growing array of instruments and reagents to explore the biophysical and structural basis of sodium channel behavior Armed with these tools researchers have made increasingly dramatic discoveries about sodium channels culminating most recently in crystal structures of voltage gated sodium channels from bacteria These structures along with those from other channels give unprecedented insight into the structural basis of sodium channel function This volume of the Handbook of Experimental Pharmacology will explore sodium channels from the perspectives of their biophysical behavior their structure the drugs and toxins with which they are known to interact acquired and inherited diseases that affect sodium channels and the techniques with which their biophysical and structural properties are studied

Neurobiology of Motor Control Scott L. Hooper, Ansgar Büschges, 2017-09-05 A multi disciplinary look at the current state of knowledge regarding motor control and movement from molecular biology to robotics The last two decades have seen a dramatic increase in the number of sophisticated tools and methodologies for exploring motor control and movement Multi unit recordings molecular neurogenetics computer simulation and new scientific approaches for studying how muscles and body anatomy transform motor neuron activity into movement have helped revolutionize the field Neurobiology of Motor Control brings together contributions from an interdisciplinary group of experts to provide a review of the current state of knowledge about the initiation and execution of movement as well as the latest methods and tools for investigating them The book ranges from the findings of basic scientists studying model organisms such as mollusks and Drosophila to biomedical researchers investigating vertebrate motor production to neuroengineers working to develop robotic and smart prostheses technologies Following foundational chapters on current molecular biological techniques neuronal ensemble recording and computer simulation it explores a broad range of related topics including the evolution of motor systems directed targeted movements plasticity and learning and robotics Explores motor control and movement in a wide variety of organisms from simple invertebrates to human beings Offers concise summaries of motor control systems across a variety of animals and movement types Explores an array of tools and methodologies including electrophysiological techniques neurogenic and molecular techniques large ensemble recordings and computational methods Considers unresolved questions and how current scientific advances may be used to solve them going forward Written specifically to encourage interdisciplinary understanding and collaboration and offering the most wide ranging timely and comprehensive look at the science of motor control and movement currently available Neurobiology of Motor Control is a must read for all who study movement production and the neurobiological basis of movement from molecular biologists to roboticists Ion Channel Drug **Discovery** Brian Cox, Martin Gosling, 2014-09-03 Ion channel drug discovery is a rapidly evolving field fuelled by recent but significant advances in our understanding of ion channel function combined with enabling technologies such as automated

electrophysiology The resurgent interest in this target class by both pharmaceutical and academic scientists was clearly highlighted by the over subscribed RSC BPS Ion Channels as Therapeutic Targets symposium in February 2009 This book builds on the platform created by that meeting covering themes including advances in screening technology ion channel structure and modelling and up to date case histories of the discovery of modulators of a range of channels both voltage gated and non voltage gated channels The editors have built an extensive network of contacts in the field through their first hand scientific experience collaborations and conference participation and the organisation of the meeting at Novartis Horsham increased the network enabling the editors to draw on the experience of eminent researchers in the field Interest and investment in ion channel modulation in both industrial and academic settings continues to grow as new therapeutic opportunities are identified and realised for ion channel modulation. This book provides a reference text by covering a combination of recent advances in the field from technological and medicinal chemistry perspectives as well as providing an introduction to the new ion channel drug discoverer The book has contributions from highly respected academic researchers industrial researchers at the cutting edge of drug discovery and experts in enabling technology This combination provides a complete picture of the field of interest to a wide range of readers **Receptor Biology** Michael S. Roberts, Anne E. Kruchten, 2016-05-02 Dieses verst ndlich geschriebene Lehrbuch ist nicht nur hoch informativ sondern macht die komplexe Thematik der Signalwege von Rezeptoren leichter greifbar Es eignet sich perfekt fr Kurse zu diesem Fachgebiet in den Studieng ngen Biologie Medizin oder Pharmakologie Voltage-gated Sodium Channels: Structure, Function and Channelopathies Mohamed Chahine, 2018-06-04 This book provides a timely state of the art overview of voltage gated sodium channels their structure function their pharmacology and related diseases Among the topics discussed are the structural basis of Na channel function methodological advances in the study of Na channels their pathophysiology and drugs and toxins interactions with these channels and their associated channelopathies Ion Channel Structure and Drug Discovery Accelerated by Cryo-EM Shujia Zhu, Lei Chen, Changlin Tian, Chia-Hsueh Lee, Huaizong Shen, 2022-11-30 Biological Membrane Ion Channels Shin-Ho Chung, Olaf S. Anderson, Vikram V. Krishnamurthy, 2007-11-13 Ion channels

Biological Membrane Ion Channels Shin-Ho Chung, Olaf S. Anderson, Vikram V. Krishnamurthy, 2007-11-13 Ion channels are biological nanotubes that are formed by membrane proteins Because ion channels regulate all electrical activities in living cells understanding their mechanisms at a molecular level is a fundamental problem in biology This book deals with recent breakthroughs in ion channel research that have been brought about by the combined effort of experimental biophysicists and computational physicists who together are beginning to unravel the story of these exquisitely designed biomolecules With chapters by leading experts the book is aimed at researchers in nanodevices and biosensors as well as advanced undergraduate and graduate students in biology and the physical sciences Key Features Presents the latest information on the molecular mechanisms of ion permeation through membrane ion channels Uses schematic diagrams to illustrate important concepts in biophysics Written by leading researchers in the area of ion channel investigations

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News ,2005 Binding, Transport and Storage of Metal Ions in Biological Cells Wolfgang Maret, Anthony Wedd ,2014-07-30 Metal ions play key roles in biology Many are essential for catalysis for electron transfer and for the fixation sensing and metabolism of gases Others compete with those essential metal ions or have toxic or pharmacological effects This book is structured around the periodic table and focuses on the control of metal ions in cells It addresses the molecular aspects of binding transport and storage that ensure balanced levels of the essential elements Organisms have also developed mechanisms to deal with the non essential metal ions However through new uses and manufacturing processes organisms are increasingly exposed to changing levels of both essential and non essential ions in new chemical forms They may not have developed defenses against some of these forms such as nanoparticles Many diseases such as cancer diabetes and neurodegeneration are associated with metal ion imbalance There may be a deficiency of the essential metals overload of either essential or non essential metals or perturbation of the overall natural balance This book is the first to comprehensively survey the molecular nature of the overall natural balance of metal ions in nutrition toxicology and pharmacology It is written as an introduction to research for students and researchers in academia and industry and begins with a chapter by Professor R J P Williams FRS **Physiology and Biochemistry of Extremophiles** Charles Gerday, Nicolas Glansdorff, 2007 A detailed overview of the current state of knowledge about this special group of organisms Serves as an essential volume for a variety of scientists including microbiologists biochemists physiologists biotechnology specialists ecologists and physical scientists such as chemists and astronomers Functional Nanometer-Sized Clusters of Transition Metals Wei Chen, Shaowei Chen, 2014-08-20 This book highlights recent progress and challenges in size controlled synthesis size dependent properties characterization and applications of metal nanoclusters **Clinical Calculations -**E-Book Joyce LeFever Kee, Sally M. Marshall, Mary Catherine Forrester, Kathryn Woods, 2020-06-12 NEW Updated information on Antidiabetic Agents orals and injectables has been added throughout the text where appropriate NEW Updated content on Anticoagulant Agents is housed in an all new chapter NEW Colorized abbreviations for the four methods of calculation BF RP FE and DA appear in the Example Problems sections NEW Updated content and patient safety quidelines throughout the text reflects the latest practices and procedures NEW Updated practice problems across the text Handbook of Cell Signaling Ralph A. Bradshaw, Edward A. Dennis, 2009-11-03 incorporate the latest drugs and dosages Handbook of Cell Signaling Three Volume Set 2e is a comprehensive work covering all aspects of intracellular signal processing including extra intracellular membrane receptors signal transduction gene expression translation and cellular organotypic signal responses The second edition is an up to date expanded reference with each section edited by a recognized expert in the field Tabular and well illustrated the Handbook will serve as an in depth reference for this complex and evolving field Handbook of Cell Signaling 2 e will appeal to a broad cross disciplinary audience interested in the structure biochemistry molecular biology and pathology of cellular effectors Contains over 350 chapters of comprehensive

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Global Edition continues to build on its strength at connecting key concepts to the experiments that reveal how we know what we know in the world of Cell Biology This classic text explores core concepts in considerable depth often adding experimental detail It is written in an inviting style to assist students in handling the plethora of details encountered in the Cell Biology course In this edition two new co authors take the helm and help to expand upon the hallmark strengths of the book improving the student learning experience

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