

# Gap Junctions

Molecular Basis of Cell Communication  
in Health and Disease

*Edited by*

**Camillo Peracchia**



ACADEMIC PRESS

*Current Topics in Membranes, Volume 49*

# Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease

**Klaus Ley**



## **Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease:**

*Gap Junctions: Molecular Basis of Cell Communication in Health and Disease*, 1999-12-22 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

**Basement Membranes: Cell and Molecular Biology** Nicholas Kefalides, Jacques Borel, 2005-10-24 Basement Membranes Cell and Molecular Biology brings together the most important research developments of the past 45 years that have enriched our knowledge and contributed to a better understanding of the biochemistry and cell and molecular biology of basement membranes It describes the studies that shed light on the ultrastructural organization the biosynthesis of the macromolecular components their functions in embryonic development and differentiation and in the mature state A major portion of the book is devoted to the description of the genes that regulate the expression of the various structural macromolecules Reviews the early years of research and the discovery of type IV collagen Presents the diversity of basement membrane morphology Discusses gene structure

**Dynamic Plasma Membranes: Portals Between Cells and Physiology**, 2016-01-09 This volume focuses on the recent advances in understanding plasma membrane organization and function beginning with simple systems and extending to specialized membrane domains of vertebrate cells Written by leading experts in the field Contains original material both textual and illustrative that should become a very relevant reference material Presents material in a very comprehensive manner Ideal for both researchers in the field and general readers who will find relevant and up to date information

[The Eye's Aqueous Humor](#), 2008-11-03 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 Guest edited by cell membrane experts Dynamic and thorough coverage of all aspects of the aqueous humor from inflow to outflow Provides the latest teachings on genomics and glaucoma Highlights new therapeutic strategies for the control of intraocular pressure

*Claudins*, 2010-06-30 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization

beginning with a review of past successes and general trends then further discussing challenges of membranes protein crystallization cell free production of membrane proteins and novel lipids for membrane protein crystallization This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes establishing Membrane Protein Crystallization as a needed practical reference for researchers

**Leucocyte Adhesion** Klaus Ley, 2009-11-09 Leucocyte Adhesion provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes This volume provides a review of the latest developments in leukocyte adhesion Regulation of cell adhesion is important for immune system function Contributions from leading experts in the field Reviews the latest developments

Structure and Function of Calcium Release Channels Irina Serysheva, 2010-09-22 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization beginning with a review of past successes and general trends then further discussing challenges of membranes protein crystallization cell free production of membrane proteins and novel lipids for membrane protein crystallization This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes establishing Membrane Protein Crystallization as a needed practical reference for researchers

**Membrane Protein Crystallization**, 2009-05-29 This volume of Current Topics in Membranes focuses on Membrane Protein Crystallization beginning with a review of past successes and general trends then further discussing challenges of membranes protein crystallization cell free production of membrane proteins and novel lipids for membrane protein crystallization This publication also includes tools to enhance membrane protein crystallization technique advancements and crystallization strategies used for photosystem I and its complexes establishing Membrane Protein Crystallization as a needed practical reference for researchers

**Mechanosensitive Ion Channels, Part B**, 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 ENaC Proteins in Vascular Smooth Muscle Mechanotransduction Regulation of the Mechano Gated K2P Channel TREK 1 by Membrane Phospholipids MechanoTRPs and TRPA1 TRPC The Cytoskeletal Connection to Ion Channels as a Potential Mechanosensory Mechanism Lessons From Polycystin 2 TRPP2 Lipid Stress at Play Mechanosensitivity of Voltage Gated Channels Hair Cell Mechanotransduction The Dynamic Interplay between Structure and Function Pharmacology of Hair Cell MS Channels Hair Cell Mechanotransduction Models of Hair Cell Mechanotransduction Touch Mechanosensitive Ion Channels in Dystrophic Muscle Mechanotransduction in Endothelial Cells MS Channels in Tumor Cell Migration Mechanosensitive Channels in Regulating Smooth Muscle Contraction in the GI Mechanosensitive Ion Channels in Blood Pressure Sensing Baroreceptor Neurons

*Development of the Cardiac Conduction System* Derek J. Chadwick, Jamie A.

Goode, 2005-01-21 The pacemaking and conduction system PCS is vital for generating and synchronizing the heart beat. Dysfunction of this system can be a direct cause of cardiac conduction disturbance, arrhythmias and sudden cardiac death. A wealth of information has been collected over many years on the unique histological, morphological and phenotypic characteristics of specialized cardiac tissues. The cellular and molecular mechanisms that govern development of the PCS are now starting to be understood. This book draws together contributions from an international and interdisciplinary group of experts working on both basic and clinical aspects of cardiac development. It features reviews of the structure and function of the developing PCS, discussion of the molecular and cellular mechanisms regulating embryological development of this system and studies on the fundamental basis of PCS pathology. The book also considers how novel therapeutic interventions based on understanding of the developmental biology of cardiac pacemaking and conduction tissues might ultimately impact on clinical medicine.

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.

**Chemokines, Chemokine Receptors and Disease** Lisa M. Schwiebert, 2005-09-02 This volume in the Current Topics in Membranes series discusses the biology of chemokines and their binding partners, chemokine receptors in normal and disease-related states. Chemokines are small proteins that are important in normal immune responses. Recent research demonstrates a role for these proteins in a variety of diseases such as heart disease, allergy, asthma and cancer. As a result of the discovery of this link to disease, the topic of chemokines and drugs that block their actions has become an intense area of study. This book presents the topics of chemokines, chemokine receptors and related pathologies in an integrated manner that provides the reader with a comprehensive and up-to-date knowledge of these topics. Provides a comprehensive overview of the history, molecular biology, cell biology, pharmacology, physiology and pathophysiology of chemokines and their receptors. Each chapter discusses future directions and unanswered

questions of chemokine biology Serves as a road map for future research     Na Channels from Phyla to Function,2016-08-29 Na Channels from Phyla to Function the latest volume in the Current Topics in Membranes series is targeted toward scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading This volume offers an up to date presentation of the current knowledge in the field of Na Channels Written by leading experts in the field of Na Channels Contains original material both textual and illustrative that make it a very relevant reference Presented in a very comprehensive manner Both researchers in the field and general readers will find this book relevant and up to date with regard to its information     Computational Modeling of Membrane Bilayers V. Sundararajan,2011-08-29 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 Discusses the current state of electrostatics in biomolecular simulations and future directions Includes information on time and length scales in lipid bilayer simulations Includes a chapter on the nature of lipid rafts     **Lipid Domains** ,2015-06-08 Current Topics in Membranes is targeted toward scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading This volume offers an up to date presentation of current knowledge in the field of Lipid Domains Written by leading experts Contains original material both textual and illustrative that should become a very relevant reference material The material is presented in a very comprehensive manner Both researchers in the field and general readers should find relevant and up to date information     *Basement Membranes* ,2015-11-24 Basement Membranes focuses on specialized extracellular matrices that provide the scaffolds used and required by cells to organize themselves into tissues and organs As basement membranes have been shown to be defective in numerous genetic and acquired diseases and to contribute to the microenvironment of both tumor cells and stem cells this book presents a view of specific basement membrane components and their roles in development and disease all written and commented on in chapters written by leaders in the basement membrane field Written by leading experts in the basement membrane field Contains original material both textual and illustrative that should become a very relevant reference material Presents material in a very comprehensive manner Ideal for both researchers in the field and general readers who will find relevant and up to date information     Free Radical Effects on Membranes ,2008-06-30 Current Topics in Membranes provides a systematic comprehensive and rigorous approach to specific topics relevant to the study of cellular membranes This volume consist of eleven chapters from experts in the field that encompass free radical effects on diverse membrane functions ranging from selective barrier functions controlling membrane protein function to discussing how the hydrophobic environment within membranes regulate free radical reactivity The focus is on articles discussing specific examples in which membranes from different cellular

compartments e g plasma ER mitochondria and membrane proteins either regulate reactive species formation and reactivity or are specific targets of reactive species leading to alteration in function Provides overviews on biomembranes and the impact their physico chemical properties have on reactive species reactivity Focuses is on reactive species and control of cell signaling pathways Illustrates the concept that different reactive species can modulate function of specific membrane ion channels in different tissues including sodium channels chloride channels sodium potassium ATPases and calcium channels in both plasma and intracellular organelle membranes

**Thermal Sensors** León Islas,Feng Qin,2014-10-28 Current Topics in Membranes is targeted toward scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading This volume presents an up to date presentation of current knowledge and problems in the field of thermal receptors This is a rapidly evolving research area and the book contains important contributions from some of the leaders in the field Written by leading experts Contains original material both textual and illustrative that should become a very relevant reference material The material is presented in a very comprehensive manner Both researchers in the field and general readers should find relevant and up to date information

*The Nociceptive Membrane* ,2011-09-21 Membranes are essential cellular organelles They not only define cells and other organelles but also are critical in the cell function by selectively regulating the passage of molecules by acting as a matrix for other signaling molecules and as conduits of information transfer between the external environment and the cell interior This series was originally added in 1970 and has since provided 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 History of Ion Channels in the Pain Sensory System Historical Overview TRPV1 a Polymodal Sensor in the Nociceptor Terminal Nociceptive Signals to TRPV1 and its Clinical Potential Gating Sensitization and Desensitization of TRPV1 TRP Channels as Thermosensors ASIC Channels P2X Receptors in Sensory Neurons Voltage Gated Sodium Channels and Neuropathic Pain Voltage Gated Potassium Channels in Sensory Neurons

*Co-Transport Systems* ,2012-12-31 Current Topics in Membranes is targeted towards scientists and researchers in biochemistry and molecular and cellular biology providing the necessary membrane research to assist them in discovering the current state of a particular field and in learning where that field is heading In this volume researchers are encouraged to fully explore topics and research related to co transport systems The authors and editors associated with the Current Topics in Membranes series are recognized as world renowned scientists in their respective fields making CTM one of the premier serials on membranes Field is cutting edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

The book delves into Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease. Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease
    - Chapter 2: Essential Elements of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease
    - Chapter 3: Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease in Everyday Life
    - Chapter 4: Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease. The first chapter will explore what Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease is, why Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease is vital, and how to effectively learn about Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease.
  3. In chapter 2, the author will delve into the foundational concepts of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease. The second chapter will elucidate the essential principles that need to be understood to grasp Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease in its entirety.
  4. In chapter 3, the author will examine the practical applications of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease in daily life. This chapter will showcase real-world examples of how Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease in specific contexts. This chapter will explore how Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gap Junctions Vol 49 Molecular Basis Of Cell Communication In Health And Disease.



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