



# Gap Junctions

**Y. Kanno, K. Kataoka, Y. Shiba, Y.  
Shibata, T. Shimazu**



## Gap Junctions:

Intercellular Communication through Gap Junctions Y. Kanno, K. Kataoka, Y. Shiba, Y. Shibata, T. Shimazu, 1995-02-09

Research on intercellular communication through gap junctions has continued to expand and the meeting on which this book is based brought together many scientists from many different countries and disciplines In line with the objective of the meeting this volume focuses on the biological meaning of intercellular communication through gap junctions in various organs The most recent up to date findings have been included in this extensive volume valuable to all those interested in this rapidly expanding field

*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

*Gap Junctions* J.E. Hall, Guido Zampighi, R.M. Davis, 2012-12-02 Gap junctions are present in nearly all tissues regardless of their embryonic origin and have long been of great interest to scientists from many different disciplines The international meeting on which this book is based brought together 157 scientists from 12 countries and almost as many scientific disciplines The papers presented at the meeting were reviewed and updated prior to publication in this book The seven parts of the book progress from general topics to the more specific ones role of gap junctions in various tissues regulation and biochemistry and cancer

**Gap Junctions** E.L. Hertzberg, Elliot L. Hertzberg, 2000-01-10 The objective in editing this volume was twofold to provide a reasoned overview of the field as well as to furnish one that provided this overview within the context of the intellectual boundaries of those who initially attempted to define the purview of gap junction research The latter objective has been realized by selecting the topics for review in this volume The former objective was achieved by securing the cooperation of leaders in their fields as chapter co authors

**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 viscerotrial 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**, 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

*Gap Junctions* Michael Vander Laan Bennett, David C. Spray, 1985

[Gap Junctions in the Brain](#) Ekrem Dere, 2012-08-30 In addition to chemical links across synapses neurons can also form direct connections via electrical gap junctions These channels play a key role in brain development and intercellular communication Dere pathophysiology of cerebral aging U Pierre et Marie Curie Paris AP HP H pital Charles Foix Centre de Recherche et D veloppement Ivry sur Seine France introduces types of gap junctions their structural aspects expression patterns of connexins transmembrane proteins and gap junction related diseases due to mutations in connexin genes International researchers working in this emerging field discuss specific connexin genes and their mechanisms of action and function in the developing neocortex behavior and neurological and neuropsychiatric diseases The text includes color and b w illustrations including schematic representations and models Academic Press is an imprint of Elsevier Annotation 2013 Book

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**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

*Gap Junctions* Rudolf Werner,1998 This monograph contains research articles from the leading laboratories around the world on gap junctions the intercellular channels that allow communication between neighbouring cells It describes the latest results in gap junctions research the structural and functional characterization of cell cell channels the assembly and degradation of gap junctions the expression and function of gap junctions in different tissues knockout studies of gap junction genes the regulation of connexin gene expression and the functions of gap junctions in development and cancer Any laboratory interested in intercellular communications and gap junction research will find this monograph an indispensable source of information and reference

*Gap Junctions in Development and Disease* Elke Winterhager,2005-07-19 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

**Gap Junction Structure and Chemical Regulation** Camillo Peracchia,2019-02-16 Gap Junction Structure and Chemical Regulation Direct Calmodulin Role in Cell to Cell Channel Gating describes and discusses the findings of major studies conducted during the past century on the structure and chemical regulation of direct cell to cell communication via gap junction channels Chapters bring together important findings on direct cell communication from its history to its structure and regulation These channels are essential for normal organ function and mutations in their protein connexin cause various diseases The book is useful for established investigators who need a

review on the field and young investigators who need a thorough resource for study and comprehension Contains comprehensive historical coverage on direct cell to cell communication Provides detailed coverage of gap junction channel structure and regulation with extensive coverage of the direct role of calmodulin in channel gating Delivers a thorough description of models proposed for the chemical gating of gap junction channels *Gap Junctions in the Nervous System* David C. Spray, Rolf Dermietzel, 2013-06-29 This book deals with the types of gap junction proteins connexins and their distribution within the nervous system the physiological properties of channels formed of each connexin and the role of gap junction channels in functions of normal and pathological brain and peripheral nerve Although glial tissue is emphasized additional groups of chapters deal with neurons in the central nervous system and with the retina Cardiac Gap Junctions S. Dhein, 1998-01-22 The most important communication mechanism between cardiac cells is electrical transmission via low resistance pathways the so called gap junction channels These gap junctions play a vital role in the physiological activation pattern and in pathophysiological cardiac conditions This book provides a comprehensive overview of what is currently known about cardiac gap junctions a relatively young field of research An introduction into the various aspects of activation propagation and coupling in the heart is followed by a detailed description of the structure and diversity of gap junctions including amino acid sequences and species variability Subsequent chapters discuss their distribution physiology and functions and the regulation of expression The author then goes on to put these basic findings into a clinical context The changes of gap junction distribution in the course of cardiac disease and their implications receive special attention A further chapter presents pharmacological approaches to the modulation of gap junction channel conductivity and outlines possible new therapeutic strategies The final part of the book especially written for scientists who intend to enter the field of cardiovascular research describes methods of investigation including double cell voltage clamp immunohistochemistry isolation procedures for gap junctions and dye coupling assays Authoritative and up to date this book successfully bridges the gap between basic and clinical research It provides an excellent introduction for newcomers to the field and will also be a valuable source of information for basic researchers cardiologists physiologists and pharmacologists **Maternal, Fetal, & Neonatal Physiology** Susan Tucker Blackburn, 2007 No further information has been provided for this title **Neuroglia** Helmut Kettenmann, Bruce R. Ransom, 2005 Graduate students in neuroanatomy neurochemistry neurophysiology and molecular neurobiology will find the book indispensable It is also a vital companion for researchers in these fields as well as clinicians in neurology neurosurgery neuropathology neuro oncology physiatry and psychiatry BOOK JACKET

Comprehensive Human Physiology Rainer Greger, Uwe Windhorst, 2013-11-11 Comprehensive Human Physiology is a significantly important publication on physiology presenting state of the art knowledge about both the molecular mechanisms and the integrative regulation of body functions This is the first time that such a broad range of perspectives on physiology have been combined to provide a unified overview of the field This groundbreaking two volume set reveals human physiology

to be a highly dynamic science rooted in the ever continuing process of learning more about life Each chapter contains a wealth of original data clear illustrations and extensive references making this a valuable and easy to use reference This is the quintessential reference work in the fields of physiology and pathophysiology essential reading for researchers lecturers and advanced students *Neurotrauma: New Insights into Pathology and Treatment* John T. Weber, Andrew I.R. Maas, 2007-07-27 Neurotrauma is the leading cause of death and disability in young adults and the incidence in older patients is increasing Neurotrauma is also a field in medicine with one of the highest unmet needs Concentrated focused and multidisciplinary efforts are required to combat this important disease Exciting findings from basic research open opportunities for improving treatment results This volume presents a unique and comprehensive overview of the latest findings and insights on translational research in neurotrauma This book should be a must for any TBI or SCI researcher interested in translating their work to the clinic as well as to clinicians interested in the latest research findings which could provide novel treatment strategies for their patients Integrates results from research on traumatic brain injury and spinal cord injury bridging basic science and clinical research Includes contributions from a worldwide panel of leading researchers and clinicians in the fields of TBI and SCI **Encyclopedia of Neuroscience, Volume 1** Larry R. Squire, 2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields *Biology of the Ovary* P. Motta, E.S. Hafez, 2012-12-06 Extensive reviews have been published on the many aspects anatomy ultrastructure physiology biophysics anatomy and physiology of the mammalian chemistry endocrinology pharmacology and physiopathology of the mammalian ovary The mammalian ovary However little attention has been given to the gaps between the physiological endocrine contributors who prepared their chapters meticulously are recognized experts in their respective clinical and histochemical parameters of the ovary as disciplines and their writings reflect extensive experience as it relates to clinical aspects There is a wealth of clinical experience and unpublished data of both publications concerning the biology of the ovary basic and clinical sciences Without the assistance of the purpose of this volume is to integrate this information with emphasis on modern concepts in good friends and permission to draw extensively microanatomy physiology methodology clinical from investigations this volume would not have complications and therapeutic approaches An attempt is made to place fundamental research in Thanks are due to G F Franchitto F Barberini clear perspectives P Stoops Lori Rust and J Squiers for their editorial It is hoped that this volume will fulfil a long skill and for checking the references to the original standing need and serve as an important source for sources Thanks are

particularly due to 1 K Smith investigators and clinicians concerned with the of Martinus Nijhoff Publishers BV for his excellent physiopathology of the ovaries for years to come It cooperation during the production of the book



The book delves into Gap Junctions. Gap Junctions is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gap Junctions, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Gap Junctions
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- Chapter 3: Gap Junctions in Everyday Life
- Chapter 4: Gap Junctions in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Gap Junctions. This chapter will explore what Gap Junctions is, why Gap Junctions is vital, and how to effectively learn about Gap Junctions.
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5. In chapter 4, this book will scrutinize the relevance of Gap Junctions in specific contexts. This chapter will explore how Gap Junctions is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Gap Junctions. 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.

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