



Gap Junctions In The Nervous System

David C. Spray, Rolf Dermietzel



Gap Junctions In The Nervous System:

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

Gap Junctions in the Nervous System David C. Spray, Rolf Dermietzel, 1996 **Intercellular Communication in the Nervous System** Robert Malenka, 2010-05-22 Intercellular communication is part of a complex system of communication that governs basic cellular activities and coordinates cell actions The ability of cells to perceive and correctly respond to their environment is the basis of growth and development tissue repair and immunity as well as normal tissue homeostasis Errors in cellular information processing are responsible for diseases such as cancer autoimmunity diabetes and neurological and psychiatric disorders There is substantial drug development concentrating on this and intercellular communication is the basis of much of neuropharmacology By understanding cell signaling diseases may be treated effectively and theoretically artificial tissues may be yielded Neurotransmitters receptors synaptic structure and organization gap junctions neurotrophic factors and neuropeptides are all explored in this volume as are the ways in which signaling controls neuroendocrinology neuroimmunology and neuropharmacology Intercellular Communication in the Nervous System provides a valuable desk reference for all scientists who consider signaling Chapters offer impressive scope with topics addressing neurotransmitters receptors synaptic structure and organization neuropeptides gap junctions neuropharmacology and more Richly illustrated in full color with over 200 figures Contributors represent the most outstanding scholarship in the field with each chapter providing fully vetted and reliable expert knowledge

Gap Junctions in the Nervous System Through 1976, 1977 **Nervous Systems and Control of Behavior** Charles Derby, Martin Thiel, 2014-09-24 Crustacean Nervous Systems and their Control of Behavior is the third volume of the series The Natural History of the Crustacea This volume is on the functional organization of crustacean nervous systems and how those nervous systems produce behavior It complements other volumes on related topics of feeding biology reproductive biology endocrine systems and behavioral ecology There is a rich history of the study of the neurobiology of crustaceans going back over 150 years This has included studies on how their nervous systems allow them to perform behaviors that are adapted to their particular environments as well as studying them as model organisms to understand basic biomedical principles about neural function such as sensory transduction and processing synaptic transmission and integration neuromodulation and learning and memory The volume has three sections that build progressively on each other The first section is on the basic organizational features of the crustacean nervous system and the principles upon which it is built The second section is on sensory ecology the organization of each sensory system and how it is used in intra and interspecific interactions within an

ecological context The third section uses case studies of how crustacean nervous systems are organized to perform complex behaviors and interactions such as walking escape social interactions and memory and learning Taken together the 20 chapters synthesize our modern understanding of the neural control of behavior in crustaceans based on the most recent technologies in physiological recording molecular biology and computational science This volume will be useful to students and researchers as a concise summary of current knowledge of crustacean neuroscience *Nervous Systems and Control of Behavior* Charles Dorsett Derby, Martin Thiel, 2014 Covers all aspects of crustacean biology physiology behavior and evolution

Cell Communication in Nervous and Immune System Eckart D. Gundelfinger, Constanze Seidenbecher, Burkhard Schraven, 2006-09-08 At first glance the nervous and immune systems appear very different However both systems have developed mechanisms for memory formation though of quite different quality and significance for the organism One striking example is that both systems form and communicate via synapses armed with similar sets of proteins This collection of reviews contributed by internationally recognized immunologists and molecular and cellular neurobiologists puts side by side cellular communication devices and signaling mechanisms in the immune and nervous systems and discusses mechanisms of interaction between the two systems the significance of which has only recently been fully appreciated *Astrocytes in (Patho)Physiology of the Nervous System* Vladimir Parpura, Philip G. Haydon, 2008-12-11 Astrocytes were the original neuroglia that Ramon y Cajal visualized in 1913 using a gold sublimate stain This stain targeted intermediate filaments that we now know consist mainly of glial fibrillary acidic protein a protein used today as an astrocytic marker Cajal described the morphological diversity of these cells with some astrocytes surrounding neurons while the others are intimately associated with vasculature We start the book by discussing the heterogeneity of astrocytes using contemporary tools and by calling into question the assumption by classical neuroscience that neurons and glia are derived from distinct pools of progenitor cells Astrocytes have long been neglected as active participants in intercellular communication and information processing in the central nervous system in part due to their lack of electrical excitability The follow up chapters review the nuts and bolts of astrocytic physiology astrocytes possess a diverse assortment of ion channels neurotransmitter receptors and transport mechanisms that enable the astrocytes to respond to many of the same signals that act on neurons Since astrocytes can detect chemical transmitters that are released from neurons and can release their own extracellular signals there is an increasing awareness that they play physiological roles in regulating neuronal activity and synaptic transmission In addition to these physiological roles it is becoming increasingly recognized that astrocytes play critical roles during pathophysiological states of the nervous system these states include gliomas Alzheimer disease and epilepsy to mention a few

Encyclopedia of the Neurological Sciences, 2014-04-29 The Encyclopedia of the Neurological Sciences Second Edition Four Volume Set develops from the first edition covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology neurosurgery psychiatry and other

related areas of neuroscience The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field Entries are designed to be understandable without detailed background knowledge in the subject matter and cross referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding The easy to use encyclopedic dictionary format of the Encyclopedia of the Neurological Sciences Second Edition features alphabetic entries extensive cross referencing and a thorough index for quick reference The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers from undergraduate students to academic researchers Provides comprehensive coverage of the field of neurological science in over 1 000 entries in 4 volumes Encyclopedic dictionary format provides for concise readable entries and easy searching Presents complete up to date information on 32 separate areas of neurology Entries are supplemented with extensive cross referencing useful references to primary research articles and an extensive index

Purinergic Signalling and the Nervous System Geoffrey Burnstock,Verkhatsky Alexei,2012-06-05 In the first 20 years that followed the purinergic signalling hypothesis in 1972 most scientists were sceptical about its validity largely because ATP was so well established as an intracellular molecule involved in cell biochemistry and it seemed unlikely that such a ubiquitous molecule would act as an extracellular signalling molecule However after the receptors for ATP and adenosine were cloned and characterized in the early 1990s and ATP was established as a synaptic transmitter in the brain and sympathetic ganglia the tide turned More recently it has become clear that ATP is involved in long term trophic signalling in cell proliferation differentiation and death in development and regeneration as well as in short term signalling in neurotransmission and secretion Also important papers have been published showing the molecular structure of P2X receptors in primitive animals like Amoeba and Schistosoma as well as green algae This has led to the recognition of the widespread nature of the purinergic signalling system in most cell types and to a rapid expansion of the field including studies of the pathophysiology as well as physiology and exploration of the therapeutic potential of purinergic agents In two books Geoffrey Burnstock and Alexej Verkhatsky have aimed at drawing together the massive and diverse body of literature on purinergic signalling The topic of this first book is purinergic signalling in the peripheral and central nervous systems and in the individual senses In a second book the authors focus on purinergic signalling in non excitable cells including those of the airways kidney pancreas endocrine glands and blood vessels Diseases related to these systems are also considered

The Role of Astroglia and Oligodendroglia in CNS Development, Plasticity, and Disease - Novel Tools and Investigative Approaches Enrica Boda,Francesca Boscia,Christian Lohr,2022-05-31

The Sticky Synapse Michael Hortsch,Hisashi Umemori,2009-06-07 The molecular mechanisms which are responsible for the functional differences between the various types of neuronal synapses have become one of the central themes of modern neurobiology It is becoming increasingly clear that a misregulation of synaptogenesis and synaptic remodeling and

dysfunctional neuronal synapses are at the heart of several human diseases both neurological disorders and psychiatric conditions. As synapses present specialized cellular junctions between neurons and their target cells, it may not come as a surprise that neural cell adhesion molecules (CAMs) are of special importance for the genesis and the maintenance of synaptic connections. Genes encoding adhesive molecules make up a significant portion of the human genome, and neural CAMs even have been postulated to be a major factor in the evolution of the human brain. These are just some of the many reasons why we thought a book on neural CAMs and their role in establishing and maintaining neuronal synapses would be highly appropriate for summarizing our current state of knowledge. Without question, over the near future, additional adhesive proteins will join the ranks of synaptic CAMs, and our knowledge of how these molecules enable neurons and their targets to communicate effectively will grow.

Neurochemical Systems and Signaling Ghulam Md Ashraf, 2023-06-30

The human brain is made up of billions of neurons that communicate with each other through chemical messengers which are referred to as neuroactive substances. These neuroactive substances include neurotransmitters, neuromodulators, and neurohormones. Some neurotransmitters also act as neuromodulators and neurohormones. It is unlikely that there would ever be a consensus about the meanings of these neuroactive substances, including neurotransmitters, since the term neurotransmitter has traditionally been used very loosely, indeed, to include neurotransmitters, neurohormones, and neuromodulators. Any alterations in the functioning of these neuroactive substances can cause diseases. The brain is the ultimate center that regulates all neurological and behavioral aspects of the body through neuronal communications mediated via various neurochemicals. Thus, neurological and psychiatric disorders are, in most cases, the result of disturbed neurochemical balance. Besides the multifaceted involvement of billions of neuronal cells, the central nervous system is a complex organization with a diverse number of neurotransmitter systems, as compared to the autonomic nervous system, in which the parasympathetic system works on the rest and digest phenomenon, and the sympathetic system works on the fight or flight phenomenon. There are more than 20 neurotransmitter systems and multiple receptors for each neurotransmitter. Any alterations in neurochemical balance are expressed in the form of neurological or psychiatric disorders, such as epilepsy, Parkinson's disease, Alzheimer's disease, psychosis, depression, etc. Acetylcholine, noradrenaline, dopamine, and 5-HT are of the utmost importance among neurotransmitters for their profound role in the pathogenesis of various neurological and psychiatric disorders in humans. Yet the involvement of various proteins and peptides, such as neurotrophic factors, growth factors, and endogenous chemical compounds, cannot be ignored. Day by day, the suffering of people due to an imbalance of neurotransmitters is increasing. Various factors, for example, stress, diet, genetics, and toxins, such as alcohol and nicotine, contribute to this imbalance. This imbalance may lead to mental health complaints. The main purpose of this book is to give a comprehensive overview of the neurological diseases associated with neurochemical imbalances. This book will help readers gain a comprehensive understanding of neuronal signaling and related neurological disorders, as well as status and future

opportunities and challenges It will provide a brief account of neurotransmission as either a study or high yield revision aid

The Somatotrophic Axis in Brain Function Fred Nyberg,2005-12-12 The somatotrophic axis is one of the major hormonal systems regulating postnatal growth in mammals It interacts with the central nervous system on several levels Growth hormone GH and insulin like growth factor I IGF I receptors are expressed in many brain areas including the hippocampus pituitary and hypothalamus GH and IGF I are important factors in the development and differentiation of the CNS and have protective properties in dementia as well as in traumatic and ischaemic injury of the CNS Also GH has an important impact on mood and well being with GH secretory capacity being reduced in depression This volume will include chapters 1 on basic knowledge on GH IGF 1 2 on localization of GH IGF 1 and their receptors in the CNS including blood brain barrier transport of both hormones 3 on actions of the two hormones on CNS function basic science 4 on clinical aspects of GH IGF 1 in relation to various CNS functions and disorders and finally 5 on some future perspectives in this area of science Contents are well balanced and cover a variety of relevant topics from basic to clinical research International selection of authors with a good representation of the research on growth hormones A timely publication which will be useful to scientists in both basic and clinical research

From Molecules to Networks Ruth Heidelberger,M. Neal Waxham,John H. Byrne,James L. Roberts,2009-01-27 An understanding of the nervous system at virtually any level of analysis requires an understanding of its basic building block the neuron From Molecules to Networks provides the solid foundation of the morphologic biochemical and biophysical properties of nerve cells All chapters have been thoroughly revised for this second edition to reflect the significant advances of the past 5 years The new edition expands on the network aspects of cellular neurobiology by adding a new chapter Information Processing in Neural Networks and on the relation of cell biological processes to various neurological diseases The new concluding chapter illustrates how the great strides in understanding the biochemical and biophysical properties of nerve cells have led to fundamental insights into important aspects of neurodegenerative disease Written and edited by leading experts in the field the second edition completely and comprehensively updates all chapters of this unique textbook Discusses emerging new understanding of non classical molecules that affect neuronal signaling Full colour professional graphics throughout Includes two new chapters Information Processing in Neural Networks describes the principles of operation of neural networks and the key circuit motifs that are common to many networks in the nervous system Molecular and Cellular Mechanisms of Neurodegenerative Disease introduces the progress made in the last 20 years in elucidating the cellular and molecular mechanisms underlying brain disorders including Amyotrophic Lateral Sclerosis ALS Parkinson disease and Alzheimer s disease

Neuroglia in the Healthy Nervous System, Part I ,2025-03-22 Neuroglia in the Healthy Nervous System Part I provides insights into newly emerging developments in neuroglia biology focusing on the healthy nervous system Driven by advances in genetics transcriptomics electrophysiological and imaging techniques this volume bridges the gap between neuroglia basic science

and neuroglia clinical research The book provides an overview of neuroglia biology highlighting emerging technologies used to unravel the role of neuroglial cells in specific brain functions The book also discusses strategies using neuroglia as a therapeutic target Provides an overview of neuroglia biology Identifies normal neuroglia function in the healthy nervous system Includes animal and human research Discusses transcriptomic electrophysiological and imaging techniques to study neuroglia Covers research using neuroglia as a therapeutic target Biomedical Index to PHS-supported Research ,1990

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 **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992 **The Human Nervous System** Charles R. Noback,David A. Ruggiero,Norman L. Strominger,Robert J. Demarest,2005 In this work the authors integrate three major basic themes of neuroscience to serve as an introduction and review of the subject

Gap Junctions In The Nervous System Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Gap Junctions In The Nervous System**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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