

SODIUM CHANNELS AND NEURONAL HYPEREXCITABILITY



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Sodium Channels And Neuronal Hyperexcitability

Gregory R. Bock, Jamie A. Goode

Sodium Channels And Neuronal Hyperexcitability:

Sodium Channels and Neuronal Hyperexcitability Gregory R. Bock, Jamie A. Goode, 2001-12-21 Recent progress has led to a better understanding of the molecular structure of sodium channels how they work and the mechanisms that restrict their expression to particular cell types This book explains how these channels are modulated in various pathological states to enable the development of therapeutic strategies based on sodium channel restoration. The authors present the most current research on sodium channels and neuronal function Brings together both the basic biology and biophysics with detailed consideration of the medical applications in chronic pain and epilepsy Includes coverage of channelopathies sodium channel gene expression the modulation of sodium channels and molecular mechanisms of gating and drug block of sodium channels

The Oxford Handbook of Neuronal Ion Channels Arin Bhattacharjee, 2023 Neurons are excitable cells They use ions and electrical signaling to talk to each to other and when they talk to each other neurons control behavior The Oxford Handbook of Neuronal Ion Channels is an accessible reference describing the nature and properties of ion channels in neurons The book explains how ion channels open and close how they can be selective for specific ions and how they give rise to action potentials Included are in depth chapters discussing specific classes of ion channels potassium channels sodium channels neurotransmitter gated ion channels and other specialized channels Throughout the handbook important insight is provided on the contribution ion channels make to neuronal excitability and to synaptic transmission The handbook goes further to discuss channelopathies a group of human diseases such as epilepsy pain and migraines that can be caused by ion channel dysfunction For neuroscientists biophysicists and neuropharmacologists this handbook is a valuable reference of ion channel biology and function Structure, Function, and Modulation of Neuronal Voltage-Gated Ion Channels Valentin K. Gribkoff, Leonard K. Kaczmarek, 2008-12-09 This book discusses voltage gated ion channels and their importance in drug discovery and development The book includes reviews of the channel genome the physiological bases of targeting ion channels in disease the unique technologies developed for ion channel drug discovery and the increasingly important role of ion channel screening in cardiac risk assessment It provides an important reference for research scientists and drug discovery companies Plasticity and Reconstruction of Neural Network in Brain Injury Zhang Pengyue, Yuchuan Ding, Yulong Bai, Xiangjian Zhang, Yunping Deng, 2021-08-24 Wall & Melzack's Textbook of Pain Stephen McMahon, FMedSci, FSB, Martin Koltzenburg, MD, FRCP, Irene Tracey, Dennis C. Turk, PhD, 2013-06-21 2014 BMA Medical Book Awards Highly Commended in Anaesthesia category Apply the latest scientific and clinical advances with Wall Melzack s Textbook of Pain 6th Edition Drs Stephen McMahon Martin Koltzenburg Irene Tracey and Dennis C Turk along with more than 125 other leading authorities present all of the latest knowledge about the genetics neurophysiology psychology and assessment of every type of pain syndrome They also provide practical guidance on the full range of today's pharmacologic interventional electrostimulative physiotherapeutic and psychological management options Benefit from the international

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Neuroplasticity and Extracellular Proteolysis Jerzy W. Mozrzymas, Leszek Kaczmarek, 2016-05-18 Neuroplasticity refers to the ability of the Central Nervous System CNS to alter its structure and function in response to a variety of physiological and pathological processes such as development cognition injury or neurological diseases Since more than four decades studies on synaptic plasticity in the context of memory and learning attracted a remarkable interest Soon after first seminal works on synaptic plasticity were published research in this field was extended by studies on non synaptic as wells as structural plasticity towards a goal to understand cellular and molecular determinants of cognition Over the past two decades yet two additional crucial players in neuroplastic phenomena started to be intensely investigated glial cells and the extracellular matrix ECM Growing awareness that glial cells especially astrocytes are important regulators of synaptic functions gave rise

to a novel concept of a tri partite synapse Also over the last two decades a growing body of evidence has accumulated that the extracellular matrix ECM in the brain is strongly involved in regulation of neurons in particular in synaptic plasticity Thus a concept of tetra partite synapse was put forward by some neuroscientists. The cross talk between neuron glia ECM system. involves enzymatic degradation of proteins or peptides and amino acids occurring in each of these brain constituents by means of a variety of proteases Importantly it has been realized that proteases such as serine proteases and matrix metalloproteinases not only accompany robust phenomena such as cell division or development or neurodegnerative conditions but may play a very subtle signaling functions particularly important in memory acquisition Indeed the repertoire of substrates for these enzymes covers a wide variety of proteins known to play important role in the neuroplastic phenomena e g BDNF TNF a ephrin systems various cell adhesion molecules etc In result the role of metalloproteinases and such serine proteases as tissue plasminogen activator tPA neuropsin or neurotrypsin in synaptic plasticity as well as in learning and memory has been particularly well demonstrated It needs to be emphasized however that in spite of a remarkable progress in this field several basic questions regarding molecular and cellular mechanisms remain unanswered Potential involvement of so many important players various proteases and their substrates in neurons glia and in ECM points to an enormous potential for plasticity phenomena but makes also studies into underlying mechanisms particularly difficult In the proposed Research Topic we provide both review of the current state of the art and present some original reports on specific aspects of the role of proteolysis in neuroplasticity phenomena The present ebook starts with extensive reviews describing involvement of proteolysis not only in synaptic plasticity but also in regulating endogenous excitability and structural changes at the network cellular and subcellular levels Cross talk between neuroplasticity and proteolysis is also emphasized in the context of development and in relation to various pathologies Whereas in the first part of the present ebook the major focus is on metalloproteinases the successive articles address the role of neuropsin and thrombin The Research Topic is concluded with a series of articles describing the components of extracellular matrix and adhesion proteins and their elaboration by mechanisms dependent directly or indirectly on proteolysis We do hope that the present ebook will further stimulate the interest in the fascinating investigations into neuroplasticity proteolysis cross talk Medicine Ushma S. Neill, American Society for Clinical Investigation, 2007-10-31 Science in Medicine The JCI Textbook of Molecular Medicine is a collection of acclaimed articles published in the Journal of Clinical Investigation during the Journal s tenure at Columbia University The society that publishes the JCI the American Society for Clinical Investigation ASCI is an honor society of physician scientists representing those who are at the forefront of translating findings in the laboratory to the advancement of clinical practice This textbook brings together state of the art reviews written by the world's leading authorities including many ASCI members. The reviews examine the molecular mechanisms underlying a wide array of diseases and disorders affecting all major organ systems. The fundamentals of the organ or physiological systems in question

are present alongside the underlying genetic or physiological abnormalities that result in disease This text illustrates the translation of basic scientific knowledge into the current practice of clinical medicine The reviews provide an authoritative and comprehensive overview by building on known scientific concepts and treatment of human disease while exploring where these advances might take medicine over the next decade The book is a valuable resource for medical students graduate students house staff attending and practicing physicians and biomedical researchers **Pathological Hyperactivity and Hyperexcitability in the Central Nervous System** Michael Telias, Menahem Segal, Alexander Galazyuk, 2022-08-05

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