

# On Channels of Excitable Membranes 3rd Edition

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discusses the classic biophysical work of Hodgkin and Huxley weaves a description of the known ionic channels together with their biological functions and then develops the physical and molecular principles needed for explaining permeation gating pharmacological modification molecular diversity and channel evolution includes new chapters on fast chemical synapses modulation through G protein coupled receptors and second messenger systems molecular cloning site directed mutagenesis and cell biology annotation copyrighted by book news inc portland or

because of the highly significant and widely recognized roles of ion channels in physiology pathophysiology pharmacology and toxicology the term ion channel has now become a household word in the biomedical sciences this volume covers preparations and techniques for the study of various ion channels both voltage gated and ligand gated ion channels of neurons axons and cardiac and smooth muscles are covered it includes not only patch clamp techniques but molecular biology and imaging techniques as well comprehensive protocols included for the study of ion channels using patch clamp molecular biology and imaging techniques role of ion channels in physiology pathophysiology pharmacology and toxicology specific ion channels of specific tissues

this new fully revised and expanded edition of ionic channels of excitable membranes includes new chapters on fast chemical synapses modulation through g protein coupled receptors and second messenger systems molecules cloning site directed mutagenesis and cell biology it begins with the classical biophysical work of Hodgkin and Huxley and then weaves a description of the known ionic channels together with their biological functions the book continues by developing the physical and molecular principles needed for explaining permeation gating pharmacological modification and molecular diversity and ends with a discussion of channel evolution ionic channels of excitable membranes is written to be accessible and interesting to biological and physical scientists of all kinds

this volume presents the most recent research findings on the key role played by Mg<sup>2+</sup> in the regulation of ion channels in excitable tissue contributions describe the multiple actions exerted by Mg<sup>2+</sup> on the different types of ion channels controlling nerve and cardiac cell activity recent developments in the detection of single ion channel activity provide important insights into the mechanisms of action of Mg<sup>2+</sup> at the channel level

this book provides the first comprehensive coverage of the quickly evolving research field of membrane contact sites (MCS) a total of 16 chapters explain their organization and role and unveil the significance of MCS for various diseases MCS the intracellular structures where organellar membranes come in close contact with one another mediate the exchange of proteins lipids and ions via these functions MCS are critical for the survival and the growth of the cell owing to that central role in the functioning of cells MCS dysfunctions lead to important defects of human physiology influence viral and bacterial infection and cause disease such as inflammation type II diabetes neurodegenerative disorders and cancer to approach such a multifaceted topic this volume assembles a series of chapters dealing with the full array of research about MCS and their respective roles for diseases most chapters also introduce the history and the state of the art of MCS research which will initiate discussion points for the respective types of MCS for years to come this work will appeal to all cell biologists as well as researchers on diseases that are impacted by MCS dysfunction additionally it will stimulate graduate students and postdocs who will energize drive and develop the research field in the near future

describes the mechanisms by which drugs act and relating these to their overall pharmacological effects and clinical uses this new edition emphasizes the chemical structures of those drugs for which knowledge of structure activity relationships enhances appreciation of how the drugs act

an understanding of the nervous system at virtually any level of analysis requires an understanding of its basic building block the neuron the third edition of from molecules to

networks provides the solid foundation of the morphological biochemical and biophysical properties of nerve cells in keeping with previous editions the unique content focus on cellular and molecular neurobiology and related computational neuroscience is maintained and enhanced all chapters have been thoroughly revised for this third edition to reflect the significant advances of the past five years the new edition expands on the network aspects of cellular neurobiology by adding new coverage of specific research methods e g patch clamp electrophysiology including applications for ion channel function and transmitter release ligand binding structural methods such as x ray crystallography written and edited by leading experts in the field the third edition completely and comprehensively updates all chapters of this unique textbook and insures that all references to primary research represent the latest results the first treatment of cellular and molecular neuroscience that includes an introduction to mathematical modeling and simulation approaches 80 updated and new content new chapter on biophysics of voltage gated ion channels new chapter on synaptic plasticity includes a chapter on the neurobiology of disease highly referenced comprehensive and quantitative full color professional graphics throughout all graphics are available in electronic version for teaching purposes

band 2

band 3

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