

The Physiology of Excitable Cells

Fourth Edition

DAVID J. AIDLEY

The Physiology Of Excitable Cells

Hans Scherubel, Jürgen Hescheler



The Physiology Of Excitable Cells:

The Physiology of Excitable Cells D. J. Aidley, 1973 **The Physiology of Excitable Cells** David J. Aidley, 1981 **The physiology of excitable cells** David J. Aidley, 1971 The Physiology of Excitable Cells David J. Aidley, 1973 *Physiology of Non-Excitable Cells* J. Salánki, 2013-10-22 *Advances in Physiological Sciences Volume 3 Physiology of Non Excitable Cells* is a collection of papers presented at the 28th International Congress of Physiology held in Budapest on July 13 19 1980 This book is organized into five parts encompassing 36 chapters that cover the various physiological aspects of non excitable cells and neuronal membranes The first two parts describe cellular models of iso osmotic and epithelial transport The third part highlights the relationship between cell transport and cellular metabolism This part also deals with the genetic and hormonal control of cellular transport as well as the lipoprotein synthesis and secretion by hepatocyte The fourth part explores cell to cell communication through junctional membrane channels and calmodulin The fifth part examines the temporal structure of biological systems in the sub second time domains This book will be of value to physiologists cell biologists researchers and biology students **The Physiology of Excitable Cells** Alan Grinnell, William James Moody, 1983 **Textbook of physiology** Harry D. Patton, *Textbook of Physiology* Harry D. Patton, 1989 **Physiology of Non-excitable Cells** János Salánki, 1981 *The Physiology of Excitable Cells* Alan D. Grinnell, William J. Moody, 1985-04 *Structure and Function in Excitable Cells* Donald Cheng, 2013-11-11 This book is a collection of up to date research reviews dealing with various aspects of the structure and function of excitable cells Its overall objective is to further the search for a better understanding of the mechanism of excitation on a structural and physicochemical basis The chapters are written by active investigators from a variety of disciplines representing many different points of view Their complementary fields of expertise give this book the rare feature of extraordinary breadth Excitability is a fundamental property of many biological systems The mechanisms by which nerve impulses are initiated and propagated and by which rhythmical activities are produced in nerve muscle and cardiac cells can be fully elucidated only when the process of excitation is derived from fundamental principles applied to known structural forms at both the macroscopic and the molecular level The problems of excitation are complex requiring knowledge of many aspects of cells including their morphology electrophysiology chemical physics and biochemistry **The Electrophysiology of Neuroendocrine Cells** Hans Scherubel, Jürgen Hescheler, 1995-08-21 *The Electrophysiology of Neuroendocrine Cells* explores the role of electrical activity in neuroendocrine cells in stimulus secretion coupling sensory mechanisms and intercellular communication This comprehensive and concise handbook includes introductory material on the ontogenesis and classification of the neuroendocrine system and describes general electrical properties voltage gated ion channels and the pharmacology of ion channels By focusing on functional aspects *The Electrophysiology of Neuroendocrine Cells* provides research scientists physicians and students with a basic understanding of neuroendocrine cells and their similarity to neurones as well as their relationship to thyroid or steroid hormone secreting endocrine cells The

multidisciplinary nature of this book provides readers with a broad perspective on the electrical properties of neuroendocrine cells and the combination of general information and specialized information makes the book accessible to beginning and advanced readers alike *Cell Physiology Source Book* Nick Sperelakis, 2012-01-11 *Cell Physiology Source Book* gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

The Molecular Properties and Evolution of Excitable Cells C. J. Duncan, 2013-10-22 *The Molecular Properties and Evolution of Excitable Cells* describes the theoretical aspects in which excitable cells such as nerves muscles and sense organs operate This book develops a hypothesis regarding the evolution and characteristics of excitable cells This monograph focuses on the properties of the bounding membrane and its complex permeability system which starts the excitation state Sense organs as the input component in both vertebrates and invertebrates are then discussed The text then briefly describes the ways that the ionic permeability of the excitable membrane can both be modified and controlled The book points out that since ions pass through standard sizes of the pores in an excitable membrane their passage is determined by the dimensions of the pore and by the existing charge found on its walls The book then explains the application of a mechanical stimulus to a mechanoreceptor that will cause deformations in the membrane This deformation leads to enzyme activity and produces alteration in the rate at which ATP is supplied to the lateral borders of the cell The text discusses a hypothesis that invokes enzyme activity by propagating action potential along the axon and other input systems such as adrenaline amino acids and γ amino butyric acid GABA The book also explains the hypothesis that living organisms are composed of an ordered system of protein enzymes forming on phospholipid protein membranes This monograph will benefit microbiologists biotechnologists and academicians connected with the biological sciences

Elements of Molecular Neurobiology C. U. M. Smith, 2003-06-13 This edition of the popular text incorporates recent advances in neurobiology enabled by modern molecular biology techniques Understanding how the brain works from a molecular level allows research to better understand behaviours cognition and neuropathologies Since the appearance six years ago of the second edition much more has been learned about the molecular biology of development and its relations with early evolution This evodevo as it has come to be known framework also has a great deal of bearing on our understanding of neuropathologies as dysfunction of early onset genes can cause neurodegeneration in later life Advances in our understanding of the genomes and proteomes of a number of organisms also greatly influence our understanding of neurobiology Well known and widely used as a text throughout the UK good reviews from students and lecturers Good

complement to Fundamentals of Psychopharmacology by Brian Leonard This book will be of particular interest to biomedical undergraduates undertaking a neuroscience unit neuroscience postgraduates physiologists pharmacologists It is also a useful basic reference for university libraries Maurice Elphick Queen Mary University of London I do like this book and it is the recommended textbook for my course in Molecular Neuroscience The major strength of the book is the overall simplicity of the format both in terms of layout and diagrams *Excitable Cells in Tissue Culture* Phillip G. Nelson, Melvyn

Lieberman, 2012-12-06 The tissue culture approach to the study of membrane properties of excitable cells has progressed beyond the technical problems of culture methodology Recent developments have fostered substantive contributions in research concerned with the physiology pharmacology and biophysics of cell membranes in tissue culture The scope of this volume is related to the application of tissue culture methodology to developmental processes and cellular mechanisms of electrical and chemical excitability The major emphasis will be on the body of new biological information made available by the analytic possibilities inherent in the tissue culture systems Naturally occurring preparations of excitable cells are frequently of sufficient morphological complexity to compromise the analysis of the data obtained from them Some of the limitations associated with dissected preparations have to do with the direct visualization of and access to the cells in question and maintenance of steady state conditions for prolonged periods of time Since preparations in tissue culture can circumvent these problems it is feasible to analyze the properties of identifiable cells grown either singly or in prescribed geometries as well as to follow the development of cellular interactions A crucial consideration in the use of cultured preparations is that they must faithfully capture the phenomenon of interest to the investigator This and other potential limitations on the methodology are of necessary concern in the present volume **The Physiology of Synapses** John Carew

Eccles, 2013-10-22 The Physiology of Synapses covers the considerable advances in understanding the complex physiology of synapses This book is divided into 16 chapters that emphasize the mechanism of synaptic transmission The first chapters describe the structural and physiological features of chemically transmitting synapses The subsequent chapters deal with the excitatory postsynaptic responses to presynaptic impulse and the release of transmitter by presynaptic impulses These topics are followed by discussions of the impulse generation by the excitatory postsynaptic potential the postsynaptic electrical events produced by chemically transmitting inhibitory synapses the ionic mechanism generating the inhibitory postsynaptic potential The last chapters consider the mechanism of inhibitory transmitter substances pathways responsible for postsynaptic inhibitory action and the trophic and plastic properties of synapses This book will prove useful to physiologists neurologists and researchers **Cell Physiology Source Book** Nicholas Sperelakis, 2012-12-02 This authoritative book

gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The Third Edition contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such

as sensory transduction the physiology of protozoa and bacteria the regulation of cell division and programmed cell death Completely revised and updated includes 8 new chapters on such topics as membrane structure intracellular chloride regulation transport sensory receptors pressure and olfactory taste receptors Includes broad coverage of both animal and plant cells Appendixes review basics of the propagation of action potentials electricity and cable properties Authored by leading experts in the field Clear concise comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics

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