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STIMULUS-SECRETION
COUPLING

in

CHROMAFFIN
CELLS

Volume II

Kurt Rosenheck
Peter I. Lelkes



TAYLOR & FRANCIS
P R E S S

Stimulus Secretion Coupling In Chromaffin Cells

E B Smith, S Daniels



Stimulus Secretion Coupling In Chromaffin Cells:

Stimulus-secretion Coupling in Chromaffin Cells Kurt Rosenheck, Peter I. Lelkes, 1987 **Stimulus-secretion coupling in chromaffin cells** Kurt Rosenheck, **STIMULUS SEC COUP CHROM CELLS** Kurt Rosenheck, 1987-07-31

Mechanisms of Stimulus-secretion Coupling in Porcine Adrenal Chromaffin Cells Yanping Xu, 1992 **STIMULUS SEC COUP CHROM CELLS** Rosenheck, Lelke, 1987-07-31 **The Adrenal Medulla 1986-1988** Stephen W. Carmichael, Susan L. Stoddard, 2017-11-22 This volume provides a complete review of all the articles which have appeared in the literature since 1986 that pertain to the adrenal medulla and adrenal chromaffin. Over 1700 articles are reviewed, organized and summarized. Topics covered include the transplantation of medulla into the brain, stimulus secretion coupling, neuropeptides, enzymes of catecholamine biosynthesis, growth factors, neural regulation and clinical considerations including imaging and tumors. This book will provide interesting reading for neurobiologists, cell biologists, pathologists, diagnostic radiologists and advanced biology students. **Stimulus-secretion Coupling** W. W. Douglas, 1968 **The Adrenal Medulla, 1989-1991** Stephen W. Carmichael, Susan L. Stoddard, 1992-10-13 The Adrenal Medulla 1989-1991 offers a comprehensive review of the world literature on the adrenal medulla published during this period. The book emphasizes the role of the adrenal medulla in advancing our knowledge of neuroscience. For example, the Nobel Prize winning technique of patch clamping has been applied to stimulus secretion coupling in adrenal chromaffin cells. The book also discusses such topics as the ability to image the distribution of calcium within individual neural cells, the ability to measure individual packets of neurotransmitter as they are released from cells, and advances in the understanding of ionic channels, cell to cell interactions, cell proliferation, sympathoadrenal ontogeny, growth factors, enzymatic biosynthetic pathways, electron and proton transfer, and neural pathways. Topics covered in clinical medicine include recent progress in the transplantation of the adrenal medulla to the brain as a treatment for Parkinson's disease and the latest reports on pheochromocytoma. The Adrenal Medulla 1989-1991 is an essential book for neurobiologists, neurochemists, experimental biologists, physiologists, cell biologists and informed clinicians. Mechanochemical Processes and Proteins in Stimulus-secretion Coupling of Adrenal Medullary Chromaffin Cells Jonathan Eduard Friedman, 1985 Cell Regulation by Intracellular Signals Stephane Swillens, 2013-11-21 In 1980 the IVth International Cyclic Nucleotide Conference was held in Brussels. As this meeting attracted many investigators involved in cyclic nucleotides and calcium role in intracellular regulation, it was thought that this opportunity could be used to organize prior to the Congress an in depth introductory course on the subject. This was carried out as a NATO Advanced Study Institute. The participants included Ph.D. students and M.D.s engaged in a research training but also fully trained and well known researchers who wanted a refresher course on the whole subject. During the course, most of the participants and lecturers asked to be provided with a text summarizing the basic lectures of the course. This book was therefore conceived as a basic textbook on the regulation and action of intracellular signal molecules, concentrating mainly on cyclic nucleotides and

calcium It was deliberately kept at a basic level We would therefore be happy if it could be used as an introduction for interested M D s or Ph D s working in other fields or entering this field and as a general refresher for researchers interested in the subject For this reason very general schemes have been asked of the authors along with reading lists of available reviews rather than extensive bibliographies The editors should like to thank the NATO Scientific Affairs Committee for having supported the course and Mrs Gh Wilmes who prepared the manuscripts S SWILLENS J E *The Structure and Function of Nervous Tissue V5* Geoffrey Bourne,2012-12-02 *The Structure and Function of Nervous Tissue Volume V* Structure III and Physiology III covers topics relating to nerve growth factor NGF neuroglia central myelinated axon adrenal medulla and saccus vasculosus of the nervous system The book begins with the physicochemical properties of the NGF molecule followed by the neuroglial participation in the removal of debris from damaged central nervous system CNS It discusses the regional distribution and biochemical characteristics of two steroid binding systems one for estradiol and the other for corticosterone It also presents studies on split brain an expression coined by Sperry 1961 to characterize an organism whose brain has been partially divided into two by surgical transection of the commissural fibers crossing the midline in lower vertebrates mammals and primates The book ends with electrophysiological studies of learning in simplified nervous system preparations This book serves as a reference work for graduate students in a variety of disciplines and for those specializing in particular aspects of nervous tissue study **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992 Respiratory Tract Mucus Ruth Porter,John Rivers,Maeve O'Connor,2009-09-16 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world

The Electrophysiology of Neuroendocrine Cells Hans Scherubel,Jurgen 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 Research Awards Index ,1989 **Neurosecretion** F. Stutinsky,2012-12-06 Cumulated Index Medicus ,1981 International Review of Cytology ,1998-03-20 *International Review of Cytology* presents current advances

and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research The Division Apparatus of Plastids and Mitochondria Nuclear and Cytoplasmic Glycosylation Microtubule Organizing Centers and Nucleating Sites in Land Plants The Wilms Tumor 1 Gene Oncogene or Tumor Suppressor Gene Exocytosis in Chromaffin Cells of the Adrenal Medulla *Gases In Medicine* E B Smith,S Daniels,2007-10-31 There have been many developments in anaesthesia since Joseph Priestley discovered nitrous oxide Covering new anaesthetics the molecular and cellular mechanisms of anaesthesia and the non hypnotic effects of anaesthetics and other medical gases *Gases in Medicine* combines reviews of current research from both academic and clinical perspectives and provides an historical framework in which this research may be placed Encompassing a wide range of topics including intravenous anaesthetics neural processes and the 1997 Priestley Lecture on nitric oxide this book offers an accessible summary of anaesthesia along with the current best research Also included is the BOC Centenary Lecture which gives a perspective on anaesthesia for the 21st century This book will be welcomed by readers in academia and medicine as an illustration of the diversity of research into anaesthesia and the associated history of this fascinating subject *Voltage-Gated Calcium Channels* Gerald Werner Zamponi,Norbert Weiss,2022-11-07 This book covers the tremendous progress in the current understanding of the molecular physiology of voltage gated calcium channels This book includes unparalleled insights into structural features of calcium channels due to X ray crystallography and cryo EM which in turn yielded critical information into how these channels function under normal and pathophysiological conditions and how they interact with calcium channel therapeutics The chapters investigate how with the advent of high throughput genome sequencing numerous mutations in various calcium channel genes have been identified in patients with neurological cardiovascular neuropsychiatric and other disorders This is further complemented through a much larger in vivo toolkit such as knock out and knock in mice The chapters further discuss the increased complexity of calcium channel physiology that arises from mRNA editing and splicing Finally the book also provides an overview of the updated research on calcium channel inhibitors that can be used both in vivo and in vitro and which may serve as a spring board for new calcium channel therapeutics for human disease *Voltage Gated Calcium Channels* is useful for academic researchers at all levels in neuroscience biophysics cell biology and drug discovery

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