

OXFORD NEUROSCIENCE SERIES

# Calcium Ions in Nerve Cell Function

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PLATON G. KOSEVICH



OXFORD SCIENCE PUBLICATIONS

# Calcium Ions In Nerve Cell Function

**Federation of American Societies for  
Experimental Biology**



## **Calcium Ions In Nerve Cell Function:**

*Calcium Ions in Nerve Cell Function* Platon Grigor'evich Kostîuk,1992 This work reviews the progress that has been made in recent years in understanding the mechanisms by which calcium ions regulate nerve cell function It covers all aspects of the topic in detail from the interaction of calcium ions with the external surface of the plasma membrane to the function of transient changes in cytoplasmic calcium concentration Much of the book is devoted to a discussion of the different types of receptor and voltage operated calcium channels and the basis of their selectivity gating inactivation and pharmacological modulation The development of calcium conductance during ontogenesis is described and the fate of calcium ions in the cell is discussed This volume clearly assesses the contribution made by the release of calcium from internal stores to cytoplasmic calcium transients and analyses mechanisms by which this release may be controlled The first book in the Oxford Neuroscience Series *Calcium Ions in Nerve Cell Function* meets the need for a comprehensive account that draws together the enormous body of research on this important topic It will be an indispensable to specialists in the field and will also provide an accessible review for non specialists

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*Calcium Ions in Nerve Cell Function* P. G. Kostîuk,2023 Calcium ions play a central role in regulating the activity of all cells and particularly their ability to respond to external stimuli Their role in the triggering of impulses in nerve cells is the subject of intensive study This book discusses aspects of this important area of research

*Biomedical Index to PHS-supported Research* ,1991 *Research Awards Index* ,1987 **Intestinal Absorption of Metal Ions, Trace Elements, and Radionuclides** Stanley C. Skoryna,1971 *Ion Channel Pharmacology* Bernat Soria,Valentín Ceña,1998 Molecular biology techniques have led to increased understanding of ion channel structure which has opened the way for the development of new drugs targeted at specific types of ion channels This book aims to provide a fully comprehensive single volume overview of the effects of different drugs and toxins on ionic channels with every chapter providing a detailed

description of the pharmacology of each particular ion channel It will be an essential reference tool for all researchers in this topical and fast moving subject area The Cumulative Book Index ,1994 A world list of books in the English language

**The Journal of Neuroscience** ,1995 Medical Journal and Record ,1927 **Neuroregulatory Mechanisms in Aging** Maynard H. Makman,George B. Stefano,1993 Aging and its associated problems are of increasing interest and concern as the life expectancy of the human population increases The importance of continued functioning of the nervous system in cognitive and integrative processes necessary for maintaining the quality of life during aging is self evident The nature and extent of the changes that occur with increasing age differ considerably in different species and also in the various organs or tissues within a given species emphasis on normal aging as it applies to the nervous systems of man and other mammals as well as to certain invertebrates Changes in human brain function due to Alzheimer s disease are considered in addition to changes that may occur with normal human aging The potential involvement of immunocytes in age associated disorders is also discussed nervous system generally due to aging from molecular pharmacological electrophysiological and behavioral perspectives This book emphasizes the attempts of recent research to understand the basic mechanisms for these changes as well as their functional consequences and provides important insight into our understanding of the aging process and the consequences of these changes for neuronal function Topics considered include neuropeptides systems in aging including opioids and analgesic cholinergic and aminergic systems neuroendocrinology and neuroimmunology The Pituitary Gland and Its Neuroendocrine Control ,1974 **Pathophysiology** Bernice L. Muir,1988 This second edition has been updated reflecting new knowledge in the field and including several new topics a discussion of endorphins and neuroregulators a section on oncogenes and another on toxic shock syndrome and a discussion of AIDS As with the first edition a conceptual adaptation approach is used throughout and the emphasis is on mechanisms by which pathogenic agents disrupt homeostasis and mechanisms by which the body maintains or restores homeostasis Sufficient facts and details are provided to enable students to understand the mechanisms and principles involved rather than merely providing a list of signs and symptoms Also new to this edition are behavioral objectives at the start of each chapter and review questions at the end of each unit that integrate information from several chapters In addition this edition contains many more illustrations *Federation Proceedings* Federation of American Societies for Experimental Biology,1962

**Dental Record** ,1922 Canadian Medical Association Journal Canadian Medical Association,1923 **Physiological Psychology** Timothy K. Smock,1999 Examining changes in the field this work emphasizes neuroscience orientation Humanities themes and examples are used to illuminate complex topics and natural science concepts are taught throughout **Handbook of Physiology: Neurophysiology. 3. v** ,1974 **Physiological Abstracts** ,1928 **Calmodulin and Cell Functions** D. Martin Watterson, Frank F. Vincenzi,1980

## Reviewing **Calcium Ions In Nerve Cell Function**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Calcium Ions In Nerve Cell Function**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Calcium Ions In Nerve Cell Function Introduction**

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