

Sodium Calcium Exchange (NCX)

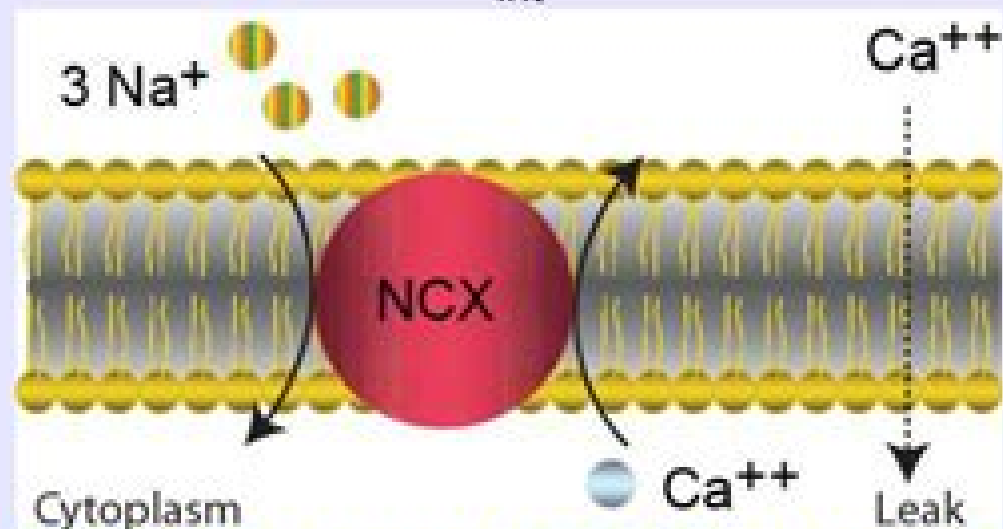
Depolarization may reverse pump direction

Ion concentration change may reverse direction

Increase in Na_{int} or decrease in Na_{ext}

Increase in internal sodium may explain activity
dependent depression

Increase in Ca_{ext} or decrease in Ca_{int}



Sodium Calcium Exchange

**T. Jeff A. Allen, Denis Noble, Harald
Reuter**



Sodium Calcium Exchange:

Sodium Calcium Exchange: A Growing Spectrum of Pathophysiological Implications Lucio Annunziato, 2012-12-09 This book reports the text of the lectures of the 6th International Conference on Sodium Calcium Exchange held in Lacco Ameno in the Island of Ischia in the Gulf of Naples Italy from October 1 to October 5 2011 The present book uncovers the most striking new findings on NCX that emerged since the previous Conference on Sodium Calcium Exchange such as the structural dissection of the molecular determinants of Ca^{2+} sensitivity of the exchanger the epigenetic regulation of *ncx1* gene the molecular identification of the mitochondrial Sodium Calcium Exchanger and the discovery of NCX in unexpected anatomical locations such as the female reproductive tract The book is organized into 11 parts covering NCX structural aspects genetic and epigenetic regulation regulatory mechanisms subcellular localization in mitochondria involvement in neurodegenerative diseases and in immune regulation and the role of the cardiovascular and endocrine systems as well as diabetes in physiology and pathophysiology Selected chapters of the book are also devoted to the interaction of NCKX and other ion channels and transporters with NCX like ASICs TRPM and NHE

Sodium-calcium Exchange Donald W. Hilgemann, Kenneth D. Philipson, Guy Vassort, 1996 This volume probes the underlying physiologic biochemical processes of cellular sodium calcium transport in cardiac function as well as in the nervous and vascular system New methods for investigating molecular exchanger function are also discussed

Cellular and Molecular Physiology of Sodium-calcium Exchange Jonathan Lytton, 2002-01-01

Sodium-calcium Exchange Mordecai P. Blaustein, Reinaldo DiPolo, John P. Reeves, 1991

Sodium-Calcium Exchange and the Plasma Membrane Ca^{2+} -ATPase in Cell Function Andre Herchuelz, 2007-04-23 Ca^{2+} homeostasis and the plasma membrane Na Ca^{2+} exchanger are vital to many cellular functions and physiological processes This volume which is the proceedings of the fifth in a series of international conferences includes contributions that merge molecular biology biochemistry biophysics and physiology providing novel insights that significantly advance our understanding of Na Ca^{2+} exchanger in areas ranging from molecular mechanisms to the involvement in human disease Several important themes are addressed 1 structure function relationships of the exchanger 2 regulation of the exchanger 3 Na Ca^{2+} exchanger gene regulation 4 cellular location and targeting of the exchanger 5 NCX and PMCA KO mice 6 Na Ca^{2+} exchanger interactions with other proteins 7 Na Ca^{2+} exchange in cardiac function 8 Na Ca^{2+} exchange in neuronal function 9 Ca^{2+} extruding mechanisms and apoptosis 10 Na Ca^{2+} exchange in smooth muscle kidney and endocrine function 11 Na Ca^{2+} exchange inhibitors therapeutic opportunities Experts in the field of the plasma membrane Ca^{2+} ATPase PMCA have also contributed The rate of progress in this field has been rapidly increasing and new concepts have emerged regarding the relation between molecular structure and physiological function New ideas on physiological modes of regulation have been increasingly testable through the use of transgenic animal models This volume and the conference that preceded it continue the tradition of sharing information to fuel new advances in this exciting and important area of research

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Sodium-calcium Exchange T. Jeff A. Allen, Denis Noble, Harald Reuter, 1989 This introduction to the role of sodium calcium exchange in calcium homeostasis contains a series of articles written by leading scientists which cover such topics as sodium calcium exchange in intact cells in photoreceptors and in sodium transporting epithelia

Sodium-calcium Exchange and the Plasma Membrane [...] in Cell Function André Herchuelz, 2007 **Role of Sodium-calcium Exchange in Cardiac Physiology and Pathophysiology** Cecilia Hurtado, 2005 *Calcium and the Cell* David Evered, Julie Whelan, 2008-04-30 This collection of presentations from the Ciba Foundation Symposium of 1985 deals with the central role of calcium in intracellular processes Discusses control of intracellular calcium as well as control by intracellular calcium covering such topics as muscle contraction metabolic processes hormone and transmitter secretion membrane transport and permeability cellular architecture and growth and the possible contribution of calcium gradients to early embryonic development Includes carefully edited and extensive almost half the book discussions of chapter topics between active workers in the field at the end of each chapter

Calcium Transport and Intracellular Calcium Homeostasis Danielle Pansu, Felix Bronner, 2013-06-29 The crucial role played by calcium as a cellular messenger has become increasingly evident as has the recognition that cells spend much energy in maintaining the cytosolic concentration of this cation both constant and low It is thought they do this to avoid precipitating phosphate needed as a source of bond energy and to modulate protein structure Moreover since calcium that does enter the cell must be disposed with processes that utilize calcium have evolved e g secretion contraction signaling to name just some New knowledge concerning the processes of cellular calcium entry extrusion and the fate of intracellular calcium has accumulated in recent years Much has also been learned about calcium transport by and across epithelial cells It seems logical to think that the processes of calcium entry extrusion and intracellular handling are similar in all cells We have therefore assembled in one volume overviews and research reports of transport and cellular calcium regulation so as to explore similarities and differences between cells that utilize calcium for metabolic purposes and those whose primary function is transport

Intracellular Calcium Regulation Hermann Bader, 1986 **Essential Cardiology** Clive Rosendorff, 2007-11-05 A panel of leading researchers and clinician scientists distill from years of practical experience and recent scientific and clinical advances the essence of cardiology principles and techniques today In this second edition all of the original chapters have been extensively rewritten and two new chapters on acute coronary syndromes following the modern classification have been added one on unstable angina pectoris and non ST segment elevation myocardial infarction and the other on ST segment elevation myocardial infarction

Compact yet comprehensive Essential Cardiology Principles and Practice Second Edition offers today's busy cardiology and internal medicine practitioners, cardiology fellows and medical residents rapid access to the latest ideas and techniques needed for today's gold standard diagnosis and management of cardiac patients

Calcium as a Cellular Regulator Ernesto Carafoli, Claude B. Klee, 1999 Encompassing all aspects of calcium signalling from methods of measuring calcium in cells to the molecular mechanisms for decoding its information this comprehensive book balances historical aspects and state of the art developments

Calcium in Drug Actions Peter F. Baker, 2012-12-06 The Editorial Board and the Publishers of the Handbook of Experimental Pharmacology wish to express their profound grief at the untimely death of Professor Peter Baker. Aware of his international recognition as an expert on the ubiquitous role of calcium in physiological processes and their pharmacological control the Board was gratified when Professor Baker accepted its invitation to edit a new Handbook volume on Calcium in Drug Actions. He went about this task with his usual energy and effectiveness so that in the few months before his unexpected death Professor Baker had mustered his distinguished contributors got them to provide their manuscripts and seen almost the entire material into the press. This achievement is all the more remarkable when one bears in mind the extraordinary number of his other commitments during the same time they are mentioned in Sir Alan Hodgkin's preface to this volume. With so many other professional and personal responsibilities upon him the Board of the Handbook wishes to record its grateful appreciation for the admirable way in which Professor Baker took on and carried out the additional work of bringing this fine book into existence and the Board wishes it to be dedicated to the memory of Professor Peter Frederick Baker. The Editorial Board G V R BORN P CUATRECASAS H HERKEN A

Cellular Ca²⁺ Regulation D. Pfeiffer, 2012-12-06 This book arose from a meeting held at the University of Washington Seattle in July of 1986. The meeting was a satellite symposium of the XXXth International Congress of Physiological Sciences which occurred in Vancouver Canada at that time.

2 Adjustments in the cytoplasmic Ca concentration of cells occur in response to a variety of external signals. These fluctuations are a central component of one mechanism by which cells adapt their activities to changes in the external environment and to the requirements of whole body homeostatic mechanisms. It is now clear that redistribution of Ca within intracellular compartments as well as changes in the rates of Ca influx and extrusion at the whole cell level occur during signal dependent changes in the cytoplasmic Ca concentration. In summarizing current research in this area this volume considers first the properties of individual cation transporting activities located in various cell membranes. It then moves to the cellular level where the consequence of individual transporting activities acting in concert is examined.

1 D phasis is also placed on pathological conditions which result in loss of cell Ca regulation as a part of the disease process. We hope that this approach will help the reader to integrate developments in this large and rapidly changing field.

Ion Pumps, Part A J.P. Andersen, 1997-11-19 Both eukaryotic and prokaryotic cells depend strongly on the function of ion pumps present in their membranes. The term ion pump synonymous with active ion transport system refers to a

membrane associated protein that translocates ions uphill against an electrochemical potential gradient Primary ion pumps utilize energy derived from chemical reactions or from the absorption of light while secondary ion pumps derive the energy for uphill movement of one ionic species from the downhill movement of another species In the present volume various aspects of ion pump structure mechanism and regulation are treated using mostly the ion transporting ATPases as examples One chapter has been devoted to a secondary ion pump the Na Ca²⁺ exchanger not only because of the vital role played by this transport system in regulation of cardiac contractility but also because it exemplifies the interesting mechanistic and structural similarities between primary and secondary pumps

Nutritional Prevention of Cardiovascular Disease Walter Lovenberg, Yukio Yamori, 2013-10-02 Nutritional Prevention of Cardiovascular Disease presents studies on the important the role of nutrition in cardiovascular disease The book contains 37 chapters organized into four parts Part I contains papers on experimental approaches to nutritional prevention of cardiovascular disease These include studies on cellular mechanisms relating salt to hypertension salt sensitivity in experimental animals and man and the relationship between nutrition and cardiovascular disease in experimental animals Part II presents epidemiological studies of regional differences in cardiovascular disease and dietary risk factors These include coronary heart disease trends in Japan linked to dietary alterations blood pressure and dietary factors among farmers in northern and southern China and dietary factors of hypertension Part III focuses on clinical studies in nutritional prevention of cardiovascular disease Topics covered include the role of dietary fat in regulating blood pressure and the effects of diet in mild hypertension Part IV deals with dietary intervention for prevention of cardiovascular disease

Sodium-calcium Exchange and Caveolins Julie Bossuyt, 2002

Molecular Biology of Receptors and Transporters: Pumps, Transporters and Channels, 1993-05-11 This multi volume set within International Review of Cytology encompasses the recent advances in the understanding of structure function relationships at the molecular level of receptors transporters and membrane proteins Several diverse families of membrane receptors proteins are discussed with respect to the molecular and cellular biology of their synthesis assembly turnover and function Included are such receptor superfamilies as G proteins immunoglobulins ligand gated receptors interleukins and tyrosine kinases as well as such transporter protein families as pumps ion channels and bacterial transporters Each section of each volume features a perspectives commentary chapter which includes comments on the recent advances and predictions on new directions Written by acknowledged experts in the field this volume 137C highlights recent developments in pumps channels and transporters The latest on several important protein families including The G protein coupled receptors The interleukin receptors Sugar transporters Several ion channels and pumps

Principles of Pharmacology David E. Golan, Joseph Loscalzo, Mark N. Namchuk, 2025-08-07 Highly regarded by both students and instructors Principles of Pharmacology The Pathophysiologic Basis of Drug Therapy 5th Edition provides a unique integrated mechanism based and systems based approach to contemporary pharmacology and drug development An easy to follow format helps both

undergraduate and graduate students grasp challenging concepts quickly and efficiently Each chapter presents a clinical vignette illustrating a therapeutic problem within a physiologic or biochemical system followed by a discussion of the biochemistry physiology and pathophysiology of the system and concluding with a presentation of the pharmacology of the drugs and drug classes that activate or inhibit the system by interacting with specific molecular and cellular targets

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