

Calcivm

Bonnie Bruce, Gene A. Spiller

Calcium Bonnie Bruce, Gene A. Spiller, 2000 Vital for the formation of strong bones and teeth, calcium accounts for a majority of the body's mineral content. However, its importance goes far beyond that of teeth and bones. Calcium is also important in the maintenance of a healthy heart and nervous system. It is also needed for muscle growth and blood clotting. Calcium, by Gene Spiller and Bonnie Bruce, reveals the nature of calcium and the roles it plays from its relationship to bones to its activities as protector against hypertension and kidney stones. Containing history, anecdotes, and case studies, this book illustrates the most important points of this vital mineral.

The Calcium Content of the Body in Relation to that of the Food Lela Evangeline Booher, 1928

Calcium-Rich and Dairy-Free Sally Rockwell, 1996

Calcium in Human Biology B.E.C. Nordin, 2013-03-12 Calcium in Human Biology provides an authoritative review of current knowledge and points the way to further progress in the understanding of this essential nutrient. In addition to considering the established importance of an adequate dietary source of available calcium for the formation of sound bones and teeth, there is detailed discussion of the part calcium plays in a variety of aspects of human metabolism. The book is written primarily for those working in the nutritional sciences and related fields. It will also be of interest to clinicians, nutritionists, and to those interested more generally in the biological sciences, as well as to those in the important sectors of the food industry which utilise or produce dairy products and other foods significant to the supply of dietary calcium.

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 and Common Sense Robert Proulx Heaney, M. Janet Barger-Lux, 1988

Calcium Therapy John Aulde, 1928

Calcium in Human Health Connie M. Weaver, Robert P. Heaney, 2007-11-10 The Nutrition and Health Series of books have had great success because each volume has the consistent overriding mission of providing health professionals with texts that are essential because each includes (1) a synthesis of the state of the science; (2) timely, in-depth reviews by the leading researchers in their respective fields; (3) extensive, - to-date fully annotated reference lists; (4) a detailed index; (5) relevant tables and figures; (6) identification of paradigm shifts and the consequences; (7) virtually no overlap of information between chapters, but targeted, interchapter referrals; (8) suggestions of areas for future research; and (9) balanced, data-driven answers to patient/health professionals' questions that are based on the totality of evidence rather than the findings of any single study. The series volumes are not the outcome of a symposium. Rather, each editor has the potential to examine a chosen area with a broad perspective, both in subject matter as well as in the choice of chapter authors. The international perspective, especially with regard to public health initiatives, is emphasized where appropriate. The editors, whose trainings are both research- and practice-oriented, have the opportunity to develop a primary objective for their book; define the scope and focus, and then invite the leading authorities from around the world to be part of their initiative. The authors are encouraged to provide an overview of the field, discuss their own research, and relate the research findings to potential human health consequences.

Calcium and Cell Function Wai Yiu Cheung, 1980

Intestinal Calcium Absorption & Its Regulation Alexander D. Kenny, 2019-06-04 First Published in 1981, this book offers a full, comprehensive guide into the relationship between our Intestines and the way in which we absorb Calcium. Carefully compiled with a vast repertoire of notes, and references this book serves as a useful reference for Students of Medicine, and other practitioners in their respective fields.

Calcium in Reproductive Physiology Kenneth Simkiss, 1967

Calcium in Human Health Connie M. Weaver, Robert P. Heaney, 2005-09-01 The Nutrition and Health Series of books have had great success because each volume has the consistent overriding mission of providing health professionals with texts that are essential because each includes (1) a synthesis of the state of the science; (2) timely, in-depth reviews by the leading researchers in their respective fields; (3) extensive, - to-date fully annotated reference lists; (4) a detailed index; (5) relevant tables and figures; (6) identification of paradigm shifts and the consequences; (7) virtually no overlap of information between chapters, but targeted, interchapter referrals; (8) suggestions of areas for future research; and (9) balanced, data-driven answers to patient/health professionals' questions that are based on the totality of evidence rather than the findings of any single study. The series volumes are not the outcome of a symposium. Rather, each editor has the potential to examine a chosen area with a broad perspective, both in subject matter as well as in the choice of chapter authors. The international perspective, especially with regard to public health initiatives, is emphasized where appropriate. The editors, whose trainings are both research- and practice-oriented, have the opportunity to develop a primary objective for their book; define the scope and focus, and then invite the leading authorities from around the world to be part of their initiative. The authors are encouraged to provide an overview of the field, discuss their own research, and relate the research findings to potential human health consequences.

Fundamentals of Intracellular Calcium Anthony K. Campbell, 2017-08-29 The definitive text on the key component for cell functions—intracellular calcium This comprehensive book reveals the evidence for intracellular calcium as a universal switch in all animal, plant, fungal and microbial cells. It shows how the components required for calcium signaling are named and classified; covers the technology that has been developed to study intracellular calcium; describes how calcium is regulated inside cells and how it works to trigger an event; explains the role of intracellular calcium in disease, cell injury, and cell death; reveals how many drugs work through the calcium signaling system; and demonstrates how intracellular calcium is involved in the action of many natural toxins. The book also illustrates how the intracellular calcium signaling system has evolved over millions of years, showing why it was crucial to the origin of life. Additionally, the book promotes the importance of the molecular variation upon which the intracellular calcium signalling system depends. Featuring more than 100 figures (including detailed chemical structures as well as pictures of key pioneers in the field), a bibliography of some 1000 references, and a detailed subject index, this definitive

work provides a unique source of scholarship for teachers and researchers in the biomedical sciences and beyond. Emphasizes two key scientific principles—the first to show how intracellular Ca²⁺ acts as a switch, to activate a wide range of cellular events, and the second demonstrating how an analogue mechanism can be superimposed on such a process. Written by an internationally recognized expert in the field. Filled with images and references to facilitate learning. **Fundamentals of Intracellular Calcium** is an all-important text for post-graduate students and researchers working in biomedicine and biochemistry. It is also essential for undergraduate lecturers and their students in physiology, medicine, pharmacy, and the biosciences.

Calcium and the Secretory Process Ronald Rubin, 2013-06-29 An enormous amount of research effort has been directed toward elucidating the mechanism by which substances are extruded from cells; and reviews have been written and symposia held in order to systematize the plethora of evidence made available. However, the approaches employed to study the secretory process have been so diverse that it is difficult, if not impossible, for one individual or even a group of individuals to keep abreast of all aspects of the field and to analyze them critically. Thus I undertook the writing of this volume with a great deal of trepidation. In searching for some starting point, I naturally considered as my primary focus the role of calcium in the secretory process, which has occupied my research interests for the past 13 years. But since so much experimentation has been carried out on this and related topics during the last decade or two, I felt it was still necessary to visualize this venture from two alternative approaches: (1) a more general one, which would cover the subject of calcium and the secretory process from a broad perspective, but of course not in great detail, and (2) a more specific one, restricting coverage to carefully defined limits but with comprehensive analysis of limited topics. The final course undertaken appears to lie somewhere between these two extremes.

Calcium and Bone Disorders in Children and Adolescents Jeremy Allgrove, Nick Shaw, 2009-01-01 Over recent decades, innovative diagnostic technologies, new therapeutic approaches and steady progress in medical genetics have helped establish the field of bone disease as a stand-alone specialty. Summarizing current knowledge, the physiology of calcium, magnesium and phosphate metabolism, the technique of bone biopsy and uses and pitfalls of bone density scanning are discussed. The main part of this publication describes in detail the disorders associated with hypocalcemia, hypercalcemia, rickets, phosphate metabolism, primary and secondary osteoporosis. The genetic nature of many of these conditions is highlighted and each condition is referred to by the number of its OMIM entry. The final chapter, which distinguishes this book from previous publications on the topic, comprises case reports illustrating some of the problems that are examined in previous chapters. This comprehensive account of disorders related to bone and mineral metabolism makes essential reading for pediatric endocrinologists as well as for clinicians who wish to gain a practical understanding of this important topic.

Calcium: The molecular basis of calcium action in biology and medicine R. Pochet, Rosario Donato, J. Haiech, Claus W. Heizmann, Volker Gerke, 2011-06-28 The enormous and varied role of calcium in living systems is now widely appreciated by both cell biologists and clinicians. The identification and characterisation of new calcium binding proteins and regulatory pathways is matched by the recognition of the involvement of calcium binding proteins in a growing number of disease states. This book is intended to introduce clinicians to fundamental biological research, whilst at the same time attracting researchers to the clinical world. The publication of the book coincides with the elucidation of the complete Human Genomic Sequence. As a result of this, scientists now have access to an unprecedented array of data, from which new calcium binding proteins and hence new regulatory pathways will undoubtedly be discovered. It is a further aim of this book to provide a 'key' to open the door to the new postgenomic era. The book is in three parts. The first section introduces the reader to the role of calcium in cell biology, providing an appreciation of how this small, simple, non-metabolisable agent can move rapidly and silently through the different cellular compartments, thereby influencing and controlling the fate of the cell. This section also illustrates and dissects the often-complex interplay between calcium and numerous agents in muscle and endocrine cells, neurons, hepatocytes, and platelets. In the second section the reader will discover the role of calcium and its partners in common diseases such as migraine and drug dependence. New classes of diseases such as annexinopathies, channelopathies, calcium-sensing disorders, and citrullinemia are discussed, and the authors give many new insights into the molecular mechanisms of the diseases, thereby explaining how and why they occur. Such information is clearly of primary importance for the pharmaceutical industry. New ideas and concepts of neurodegenerative diseases are introduced, which should stimulate new approaches. Clinicians will also have access, in a comprehensive and authoritative yet highly readable chapter, to data from recent large-scale clinical studies on the numerous and widely prescribed calcium antagonists. The final section gives information on new methods and devices for calcium imaging, and illustrates how calcium movement and change can be monitored and ingeniously utilised as a fast, cheap, and accurate drug screening instrument.

Some Quantitative Studies on the Fat-soluble Vitamins Vivian Virginia Drenckhahn, 1927

The Role of Calcium in Biological Systems, 1982

The Strong Bones Diet Lois Goulder, Leo Lutwak, 1988

Calcium in Reproductive Physiology Kenneth Simkiss, 1967

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