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Regulation of Ca^{2+} - ATPases, V- ATPases and F-ATPases

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Regulation of Ca²⁺-ATPases, V-ATPases and F-ATPases Sajal Chakraborti, Naranjan S Dhalla, 2015-12-10 The biological membranes of cellular organization enfold an important group of membrane proteins called the ATPases which are not only versatile in maintaining chemical gradient and electrical potential across the membrane but also bring metabolites necessary for cell metabolism and drive out toxins waste products and solutes that otherwise can curb cell functions ATPases are distributed virtually in all live forms starting from unicellular to multicellular and also in viruses There are different types of ATPases which differ in function and structure and in the type of ions they transport The three main types of the ion pump ATPase family are i P type ATPases that transport different ions across membranes and Ca²⁺ ATPases belongs to this category ii F type ATPase in mitochondria chloroplasts and bacterial plasma membranes produce ATP using the proton gradient and iii V type ATPase catalyzes ATP hydrolysis to transport solutes and maintains acidic pH in organelles like lysosomes Genetic defects in either of the ATPases cause several diseases and a number of researches have demonstrated the involvement of the members of ATPases in the cell pathology and diseases thereby penetrating exciting new areas of our understanding In this book the authors summarize recent knowledge about the molecular mechanisms associated with Ca²⁺ ATPase V ATPase and F ATPase in intracellular and extracellular Ca²⁺ transport mitochondrial ATP synthase vesicular H transport and lysosomal pH regulation This book thereby bridges the gap between fundamental research and biomedical and pharmaceutical applications The book provides an informative resource to improve ATPase research and modern therapeutic approaches toward different life threatening diseases that are associated with dysregulation of the ATPases

Fundamentals of Protein Structure and Function Engelbert Buxbaum, 2015-11-27 This book serves as an introduction to protein structure and function Starting with their makeup from simple building blocks called amino acids the 3 dimensional structure of proteins is explained This leads to a discussion how misfolding of proteins causes diseases like cancer various encephalopathies or diabetes Enzymology and modern concepts of enzyme kinetics are then introduced taking into account the physiological pharmacological and medical significance of this often neglected topic This is followed by thorough coverage of h moglobin and myoglobin immunoproteins motor proteins and movement cell cell interactions molecular chaperones and chaperonins transport of proteins to various cell compartments and solute transport across biological membranes Proteins in the laboratory are also covered including a detailed description of the purification and determination of proteins as well as their characterisation for size and shape structure and molecular interactions The book emphasises the link between protein structure physiological function and medical significance This book can be used for graduate and advanced undergraduate classes covering protein structure and function and as an introductory text for researchers in protein biochemistry molecular and cell biology chemistry biophysics biomedicine and related courses About the author Dr Buxbaum is a biochemist with interest in enzymology and protein science He has been working on the

biochemistry of membrane transport proteins for nearly thirty years and has taught courses in biochemistry and biomedicine at several universities

Biophysical Chemistry of Proteins Engelbert Buxbaum, 2025-07-10 This textbook designed for all scientists interested in protein research provides a thorough overview of laboratory methods for the biophysical chemistry of proteins This new edition completely restructured and expanded for ease of learning includes sections on analytical techniques working with proteins protein size and shape protein structure enzyme kinetics industry enzymology and a new section on special statistics

Handbook of ATPases Masamitsu Futai, Yoh Wada, Jack H. Kaplan, 2006-01-24 ATP

dependent active ion transport enables cells to regulate their pH value and to control their ion composition The reverse process transforming an ion imbalance into chemical energy drives mitochondrial and chloroplast ATP synthesis The mediators of these fundamental processes are ion motive ATPases highly conserved enzymes that play key roles in cell physiology from bacteria to man As the first comprehensive overview of this important class of enzymes this handbook summarizes recent knowledge about the molecular mechanism of ATPases relating this information to the physiology and pathophysiology of ion transport mitochondrial function vesicle transport and lysosomal acidification All important P type F type and V type ATPases are treated systematically complemented by a special section on the cell biology and physiology of acidic compartments and backed by an extensive bibliography and index This premier reference source for physiologists molecular biologists biophysicists and clinical researchers contains contributions by the world's foremost ATPase research groups

Salt Tolerance: Molecular and Physiological Mechanisms and Breeding Applications Loredana F.

Ciarmiello, Jayakumar Bose, Pasqualina Woodrow, Magdalena Maria Julkowska, Giovanni Stefano, 2022-10-03

Biothermodynamics Mustafa Ozilgen, Esra Sorguven Oner, 2016-11-18 Over the past several decades there has been increasing research interest in thermodynamics as applied to biological systems This concerns topics such as muscle work and internal energy such as fat and starch Applications of the first and second laws of thermodynamics to the human body are important to dieticians and health science experts and applications of these concepts to the animal body are a major concern of animal scientists This book covers these key topics which are typically not covered in classic or traditional thermodynamics texts used in mechanical and chemical engineering

Individual Variation and Responses of Animals

to Changing Environments John Cockrem, Edward Narayan, 2022-11-15

An Innovative Approach to Understanding and Treating Cancer: Targeting pH Tomas Koltai, Stephan J. Reshkin, Salvador Harguindey, 2020-01-16 An Innovative Approach to Studying and Treating Cancer Targeting pH describes one of the few characteristics of cancer that is not shared by normal tissues the reversal or inversion of the pH gradient when intracellular pH becomes alkaline and extracellular pH becomes acid This is now recognized as one of the most selective and differential hallmarks of all cancer cells and tissues being the opposite of the condition found in normal tissues and a potential target in order to achieve either a stable disease or even regression with no toxicity The book discusses topics such as lactic acid and its transport system in the pH paradigm

mechanisms to decrease extra cellular pH and increase intracellular pH NHE 1 activity in cancer carbonic anhydrases vacuolar ATPase proton pump and the sodium bicarbonate cotransporter system Additionally it discusses complementary pharmacological interventions cellular acidification and extracellular alkalinization as a new and integral approach to cancer treatment Analyzes the mechanisms that lead to the inversion of pH gradient in cancer tissues Summarizes almost 100 years of research on pH inversion in cancer in one single source discussing the most relevant and updated researches in the field Proposes new efficient treatments against cancer using pH inversion mechanisms either with new drugs like proton transport inhibitors and proton pump inhibitors PTIs and PPIs or with repurposed drugs *Approaches for Enhancing Abiotic Stress Tolerance in Plants* Mirza Hasanuzzaman,Kamrun Nahar,Masayuki Fujita,Hirosuke Oku,Tofazzal Islam,2019-01-10 Plants are frequently exposed to unfavorable and adverse environmental conditions known as abiotic stressors These factors can include salinity drought heat cold flooding heavy metals and UV radiation which pose serious threats to the sustainability of crop yields Since abiotic stresses are major constraints for crop production finding the approaches to enhance stress tolerance is crucial to increase crop production and increase food security This book discusses approaches to enhance abiotic stress tolerance in crop plants on a global scale Plants scientists and breeders will learn how to further mitigate plant responses and develop new crop varieties for the changing climate **Journal of Cell Science** ,2002 Current Omics Advancement in Plant Abiotic Stress Biology Deepesh Bhatt,Manoj Nath,Saurabh Badoni,Rohit Joshi,2024-05-07 Applied Biotechnology Strategies to Combat Plant Abiotic Stress investigates the causal molecular factors underlying the respective mechanisms orchestrated by plants to help alleviate abiotic stress in which Although knowledge of abiotic stresses in crop plants and high throughput tools and biotechnologies is available in this book a systematic effort has been made for integrating omics interventions across major sorts of abiotic stresses with special emphasis to major food crops infused with detailed mechanistic understanding which would furthermore help contribute in dissecting the interdisciplinary areas of omics driven plant abiotic stress biology in a much better manner In 32 chapters Applied Biotechnology Strategies to Combat Plant Abiotic Stress focuses on the integration of multi OMICS biotechnologies in deciphering molecular intricacies of plant abiotic stress namely drought salt cold heat heavy metals in major C3 and C4 food crops Together with this the book provides updated knowledge of common and unique set of molecular intricacies playing a vital role in coping up severe abiotic stresses in plants deploying multi OMICS approaches This book is a valuable resource for early researchers senior academicians and scientists in the field of biotechnology biochemistry molecular biology researchers in agriculture and crops for human foods and all those who wish to broaden their knowledge in the allied field Describes biotechnological strategies to combat plant abiotic stress Covers the latest evidence based multipronged approaches in understanding omics perspective of stress tolerance Focuses on the integration of multi OMICS technologies in deciphering molecular intricacies of plant abiotic stress *ATPases* A.G. Lee,1996-12-17 Volume 5 of Biomembranes covers an important group of membrane proteins

the ATPases The P type ATPases couple the hydrolysis of ATP to the movement of ions across a membrane and are characterized by the formation of a phosphorylated intermediate Included are the plasma membrane and muscle sarcoplasmic reticulum Ca^{2+} ATPases the Na K ATPase the gastric H K ATPase the plasma membrane H ATPase of fungi and plants the Mg^{2+} transport ATPase the *Salmonella typhimurium* and the K ATPase of *Escherichia coli* KdpB The other important classes of ATPase in eukaryotic systems are the vacuolar H ATPases and the F₀F₁ ATP synthase and in bacteria the anion translocating ATPases responsible for resistance to arsenicals and antimonials and the Na Mg^{2+} ATPase of *Acholeplasma* Finally eukaryotic systems contain a variety of ectonucleotidases important for example in hydrolysis of extracellular ATP released as a cotransmitter from cholinergic and adrenergic nerve terminals Volume 5 of Biomembranes explores structure function relationships for these membrane bound ATPases Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2001-06 **Directory of Graduate Research** American Chemical Society. Committee on Professional Training,2005 Faculties publications and doctoral theses in departments or divisions of chemistry chemical engineering biochemistry and pharmaceutical and or medicinal chemistry at universities in the United States and Canada **Applied and Environmental Microbiology** ,2007

Energy-Transducing ATPases - Structure and Kinetics Yuji Tonomura,1986-07-31 Professor Tonomura's book explains at the molecular level how cells use energy harnessed as adenosine triphosphate to perform the fundamental physiological functions such as muscle contraction and the active transport of cations A well written interesting account of the structure and kinetics of energy transducing ATPases **Bibliography of Agriculture with Subject Index** ,2000 *Ion-motive ATPases* Antonio Scarpa,Ernesto Carafoli,Sergio Papa,1992 The large body of recent knowledge that has allowed the recent discovery of new ATPases and the partial clarification of structural and functional aspects of the already known ATPases are the subjects of this volume A dozen ION MOTIVE ATPases are discussed in terms of structure site modification catalysis expression hormonal and metabolic regulation and pharmacologic intervention **Transport ATPases** Ernesto Carafoli,Antonio Scarpa,1982 *Ecto-ATPases* Liselotte Plesner, Terence L. Kirley,Aileen F. Knowles,2012-12-06 Proceedings of the First International Workshop held in Mar de Plata Argentina August 26 30 1996

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