

Manganese in biological systems: Transport and function

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Manganese And Its Role In Biological Processes

Graeme Hanson, Lawrence Berliner



Manganese And Its Role In Biological Processes:

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Metal Ions in Biological Systems: Manganese and its role in biological processes Helmut Sigel,1973

Occurrence of Manganese in Drinking Water and Manganese Control Paul M. Kohl,Steven J. Medlar,2006 This research study describes the chemistry and suggested treatment of manganese in drinking water with the goals of reducing customer complaints and improving perceived water quality The problems are aesthetic water discoloration usually black or dark red clothing and fixture staining turbid water sediments and at very high levels metallic taste

Metals in Biology Graeme Hanson,Lawrence Berliner,2010-03-11 Metal ions in biology is an ever expanding area in science and medicine involving metal ions in proteins and enzymes their biosynthesis catalysis electron transfer metal ion trafficking gene regulation and disease While X ray crystallography has provided snapshots of the geometric structures of the active site redox cofactors in these proteins the application of high resolution EPR spectroscopy in conjunction with quantum chemistry calculations has enabled in many cases a detailed understanding of a metalloenzymes mechanism through investigations of the geometric and electronic structure of the resting enzyme substrate intermediates and product complexes This volume Part II of a two volume set demonstrates the application of high resolution EPR spectroscopy in determining the geometric and electronic structure of active site metal ion centers in iron sulfur cluster containing metalloproteins mononuclear molybdenum metalloenzymes manganese containing enzymes and novel metalloproteins

Manual of Environmental Microbiology Christon J. Hurst,Ronald L. Crawford,Jay L. Garland,David A. Lipson,2007-05-14 The most definitive manual of microbes in air water and soil and their impact on human health and welfare Incorporates a summary of the latest methodology used to study the activity and fate of microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments Features a section on biotransformation and biodegradation Serves as an indispensable reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

The Bacterial Spore Adam Driks,Patrick

Eichenberger,2020-07-24 The study of bacterial spores spans biosecurity to ecology The first articles describing the sporulation process were published by Robert Koch and Ferdinand Cohn in the late 19th century Although most of the work accomplished in the past 50 years has focused on the model organism *Bacillus subtilis* more recent work significantly expanded the scope of sporulation research to integrate medically relevant spore pathogens such as *B anthracis* and *Clostridium difficile* as well as investigations of the ecology of spore forming species This new direction is supported by an explosion of novel techniques that can also be applied to nonmodel organisms such as next generation sequencing metagenomics and transcriptomics The Bacterial Spore provides a comprehensive series of reviews of the major topics in spore biology that represent intensive cutting edge spore research Editors Adam Driks and Patrick Eichenberger assembled chapters written by a team of diverse and multidisciplinary experts in biodefense and microbial forensics to produce an overview of topics of spore research such as spore molecular biology bioremediation systems biology issues in biodefense and the challenge of food safety that is accessible to any reader regardless of expertise The Bacterial Spore also encompasses the diversity of spore research which will appeal to those seeking to broaden their knowledge The Bacterial Spore is a reference for a wide range of readers including geneticists cell biologists physiologists structural and evolutionary biologists applied scientists advanced undergraduate and graduate students and nonresearchers such as national security professionals

Toxicology of Essential and Xenobiotic Metals João Batista Teixeira da Rocha,Michael Aschner,Pablo Andrei Nogara,2024-11-01 This book explores how metals like cadmium mercury lead aluminium manganese and chromium can harm our health whether through short term or long term exposure It covers symptoms ranging from immediate nausea to long term issues like Parkinson s and Alzheimer s diseases Understanding how these metals interact with our bodies is crucial for identifying their harmful effects The book divided into 11 chapters provides straightforward explanations about how these metals affect our health making it useful for anyone interested in understanding how metals can impact the environment as well as human and animal health **Ehrlich's Geomicrobiology** Henry Lutz Ehrlich,Dianne K.

Newman,Andreas Kappler,2015-10-15 Advances in geomicrobiology have progressed at an accelerated pace in recent years Ehrlich s Geomicrobiology Sixth Edition surveys various aspects of the field including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels Unlike the fifth edition the sixth includes many expert contributors *Handbook of Plant Nutrition* Allen V. Barker,David J. Pilbeam,2015-05-14 In 2007 the first edition of

Handbook of Plant Nutrition presented a compendium of information on the mineral nutrition of plants available at that time and became a bestseller and trusted resource Updated to reflect recent advances in knowledge of plant nutrition the second edition continues this tradition With chapters written by a new team o **Metal Ions In Biological Systems, Volume 44** Helmut Sigel,Roland Sigel,2005 Volume 44 devoted solely to the vital research areas concerning the biogeochemistry of metals and their transport in the environment and availability to living systems offers 9 timely and authoritative chapters on

these fascinating topics by 19 internationally recognized experts

Inorganic Contaminants and Radionuclides Ravi Naidu, 2023-10-17 *Inorganic Contaminants and Radionuclides* is a single reference covering common inorganic contaminants in detail including their distribution in the environment challenges linked to management geogenic sources anthropogenic sources exposure and effects international agreements and legislation relating to the contaminant remediation options and global case studies In addition the book provides summaries of contaminated sites and key details about contaminants to present a more comprehensive understanding and improve remediation and management practices The book's clear consistent organization makes it a valuable resource for researchers students and practitioners working in environmental science environmental management and environmental engineering One of the major constraints to assessing and remediating contaminated sites is the lack of awareness of the extent and severity of contaminated sites amongst the community regulators policymakers industry operators university graduates and environmental managers This book helps to manage these constraints Provides a one stop reference on the nature and properties of inorganic contaminants including a transdisciplinary approach to managing contaminated sites Includes global case studies covering contaminated site assessment management and remediation Presents in depth research and data on specific contaminants with a separate chapter for each contaminant

Handbook on Metalloproteins Ivano Bertini, Astrid Sigel, 2001-06-29 This Handbook on Metalloproteins focuses on the available structural information of proteins and their metal ion coordination spheres It centers on the metal ions indispensable for life but also considers metal ions used as substitution probes in studies of metalloproteins Emphasizing the structure function relationship the book covers the common

Molecular and Cellular MR Imaging Michel M.J. Modo, Jeff W.M. Bulte, 2007-03-28 The ability of molecular and cellular imaging to track the survival migration and differentiation of cells in vivo as well as monitor particular gene expression in living subjects is rapidly moving from the research laboratory into daily clinical settings The interdisciplinary nature of the field mandates a constant dialogue among molecular and

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Protein Nutrition and Mineral Absorption Raul A. Wapnir, 2024-12-06 This volume presents information regarding the mechanisms of protein absorption under normal and pathologic conditions in addition to reviewing changes that occur at various stages of life General modifiers of intestinal absorption such as the processing of foods the nutritional status of the individual and disease are explored with reference to both proteins and minerals Inorganic macronutrients namely calcium magnesium and phosphorus are discussed in relation to protein ingestion The book also explores the concept of essential trace elements e.g. iron zinc copper and iodine and their link to protein sufficiency The relationship of ultratrace elements with the content of proteins in food is examined and the book

offers a fresh view of the role of certain elements particularly zinc on the conformation of proteins linked to DNA hormone receptors and gene products Protein Nutrition and Mineral Absorption is packed with 2 300 references 100 figures and graphs plus 25 tables Nutritionists and physicians will find this book to be an invaluable reference source for rationalizing nutritional interventions and diet modifications for their patients *U.S. Geological Survey Professional Paper* S. E. Church, Paul Von Guerard, Susan E. Finger, 1984 *Bioinorganic Chemistry* D.P. Kessissoglou, 2012-12-06 Bioinorganic chemistry is primarily concerned with the role of metal atoms in biology and is a very active research field However even though such important structures of metalloenzymes are known as the MoFeCo of nitrogenase Cu or Mn superoxide dismutase and plastocyanin the synthetic routes to the modelling of such centers remains a matter of acute scientific interest Other metalloenzymes such as the Mn center of the oxygen evolving complex of PSII are still the focus of in depth examination both spectroscopic and structural Another area of concern is the interaction between drugs and metals and metal ion antagonism Understanding the chemistry of metal ions in biological systems will bring benefits in terms of understanding such problems as biomineralization and the production of advanced materials by micro organisms The 29 contributions to Bioinorganic Chemistry An Inorganic Perspective of Life give an excellent summary of the state of the art in this field covering areas from the NMR of paramagnetic molecules to the use of lanthanide porphyrins in artificial batteries

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add b 80 1 12 add c 81 1 13 add d 82 1 14

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