metal ions in biological systems

volume 30

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edited by Helmut Sigel and Astrid Sigel



Metal Ions In Biological Systems Vol 30 Metalloenzymes Involving Amino Acid Residue And Related Radicals

Astrid Sigel

Metal Ions In Biological Systems Vol 30 Metalloenzymes Involving Amino Acid Residue And Related Radicals:

Metal Ions in Biological Systems Helmut Sigel, Astrid Sigel, 2024-11-01 This volume is devoted solely to the research area of metalloenzymes involving amino acid residue and related radicals Topics covered include general considerations structure function and engineering of peroxidases and ribonucleotide reductase in mammalian systems Biochemistry J. A. Cowan, 1997-03-21 The text will provide a set of problems covering mechanistic structural and spectroscopic issues in inorganic chemistry Specific areas to be covered include coordination chemistry physiochemical aspects of solution chemistry inorganic chemistry of biological systems both natural biomolecules and bioinorganic models Illustrative worked examples will be included The problems will be categorized by topic chapters for ease of reference and use in courses They will provide a valuable resource for instructors providing a means of testing and developing the many principles covered in texts and advanced courses Often students find it difficult to find practical problems to test the principles they have learned in class This text will provide a series of questions to test understanding and worked examples Metal Ions In Biological Systems, Volume 44 Helmut Sigel, Roland Sigel, 2005-03-01 Volume 44 as a pedagogical aid 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 Metal Ions in Biological Systems, Volume 43 - Biogeochemical Cycles of Elements Helmut recognized experts Sigel, Roland Sigel, 2005-02-28 Metal Ions in Biological Systems is devoted to increasing our understanding of the relationship between the chemistry of metals and life processes. The volumes reflect the interdisciplinary nature of bioinorganic chemistry and coordinate the efforts of researchers in the fields of biochemistry inorganic chemistry coordination chemis Metal Ions in Biological Systems Astrid Sigel, 2004-03-26 Metal ions are currently used for such applications as diabetes anti inflammatory rheumatoid arthritis psychiatric and anti-ulcer medications using compounds of vanadium copper and zinc gold lithium and bismuth respectively This text explores these applications in addition to an assessment of chelation therapy uses in environmental sciences and the human health effects of metal ion deficiency for several elements magnesium calcium zinc and iron Featuring contributions from 29 internationally recognized experts this book offers a timely authoritative look at Metal Ions in Fungi Gunther Winkelmann, 2020-08-26 Presents the latest advances in the ionic complexes in medicine study of the intracellular fate and transport of metal ions in fungi emphasizing the mechanisms that regulate cellular concentration The book explains the expanding relationship between molecular genetics and inorganic biochemistry

Cadmium: From Toxicity to Essentiality Astrid Sigel, Helmut Sigel, Roland KO Sigel, 2013-02-26 Volume 11 provides in an authoritative and timely manner in 16 stimulating chapters written by 40 internationally recognized experts from 11 nations and supported by more than 2600 references 35 tables and over 100 illustrations many in color a most up to date view on the role of cadmium for life presently a vibrant research area MILS 11 covers the bioinorganic chemistry of Cd II its

biogeochemistry anthropogenic release into the environment and speciation in the atmosphere waters soils and sediments The analytical tools for Cd determination its imaging in cells and the use of 113Cd NMR to probe Zn II and Ca II proteins are summarized as are Cd II interactions with nucleotides nucleic acids amino acids and proteins including metallothioneins The phytoremediation by Cd II accumulating plants etc the toxicology of Cd II its damage to mammalian organs and its role as a Interrelations between Essential Metal Ions and Human Diseases Astrid carcinogen for humans are highlighted Sigel, Helmut Sigel, Roland K.O. Sigel, 2014-01-27 MILS 13 provides an up to date review on the relationships between essential metals and human diseases covering 13 metals and 3 metalloids The bulk metals sodium potassium magnesium and calcium plus the trace elements manganese iron cobalt copper zinc molybdenum and selenium all of which are essential for life Also covered are chromium vanadium nickel silicon and arsenic which have been proposed as being essential for humans in the 2nd half of the last century However if at all they are needed only in ultra trace amounts and because of their prevalence in the environment it has been difficult to prove whether or not they are required In any case all these elements are toxic in higher concentrations and therefore transport and cellular concentrations of at least the essential ones are tightly controlled hence their homeostasis and role for life including deficiency or overload and their links to illnesses including cancer and neurological disorders are thoroughly discussed Indeed it is an old wisdom that metals are indispensable for life Therefore Volume 13 provides in an authoritative and timely manner in 16 stimulating chapters written by 29 internationally recognized experts from 7 nations and supported by more than 2750 references and over 20 tables and 80 illustrations many in color a most up to date view on the vibrant research area of the Interrelations between Essential Metal Ions and Human Metallomics and the Cell Lucia Banci, 2013-04-18 Metallomics and the Cell provides in an authoritative and Diseases timely manner in 16 stimulating chapters written by 37 internationally recognized experts from 9 nations and supported by more than 3000 references several tables and 110 illustrations mostly in color a most up to date view of the metallomes which as defined in the omics world describe the entire set of biomolecules that interact with or are affected by each metal ion The most relevant tools for visualizing metal ions in the cell and the most suitable bioinformatic tools for browsing genomes to identify metal binding proteins are also presented Thus MILS 12 is of relevance for structural and systems biology inorganic biological chemistry genetics medicine diagnostics as well as teaching etc The Alkali Metal Ions: Their Role for Life Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2016-02-09 MILS 16 provides an up to date review of the impact of alkali metal ions on life Their bioinorganic chemistry and analytical determination the solid state structures of bio ligand complexes and the properties of alkali metal ions in solution in the context of all kinds of biologically relevant ligands are covered this includes proteins enzymes and nucleic acids G quadruplexes Minerals containing sodium Na and potassium K are abundant in the Earth's crust making Na and K easily available In contrast the alkali elements lithium Li rubidium and cesium are rare and the radioactive francium occurs only in traces Since the intra and extracellular as well as the

compartmental concentrations of Na and K differ significantly homeostasis and active transport of these ions are important this involves transporters carriers and pore forming ion channel proteins Systems like Na K ATPases H K ATPases or Na H antiporters are thoroughly discussed The role of K in photosynthesis and the role of Na in charging the battery of life are pointed out Also the relationships between alkali metal ions and diseases e g Parkinson or traumatic brain injury are covered and the relevance of Li salts in medicine pharmacology and mechanism is reviewed This and more is treated in an authoritative and timely manner in the 16 stimulating chapters of Volume 16 The Alkali Metal Ions Their Role for Life which are written by 44 internationally recognized experts from 12 nations The impact of this vibrant research area is manifested in nearly 3000 references over 30 tables and more than 150 illustrations two thirds in color MILS 16 also provides excellent information for teaching Astrid Sigel Helmut Sigel and Roland K O Sigel have long standing interests in Biological Inorganic Chemistry Their research focuses on metal ion interactions with nucleotides and nucleic acids and on related topics They Oxygenic Photosynthesis: The Light Reactions edited previously 44 volumes in the series Metal Ions in Biological Systems Donald R. Ort, Charles F. Yocum, 2006-04-11 Structure and function of the components of the photosynthetic apparatus and the molecular biology of these components have become the dominant themes in advances in our understanding of the light reactions of oxygenic photosynthesis Oxygenic Photosynthesis The Light Reactions presents our current understanding of these reactions in thylakoid membranes Topics covered include the photosystems the cytochrome b6 f complex plastocyanin ferredoxin FNR light harvesting complexes and the coupling factor Chapters are also devoted to the structure of thylakoid membranes their lipid composition and their biogenesis Updates on the crystal structures of cytochrome f ATP synthase and photosystem I are presented and a section on molecular biology and evolution of the photosynthetic apparatus is also included The chapters in this book provide a comprehensive overview of photosynthetic reactions in eukaryotic thylakoids The book is intended for a wide audience including graduate students and researchers active in this field as well as those individuals who have interests in plant biochemistry and molecular biology or plant physiology Metals in the Environment M.N.V. Prasad, 2001-07-27 A summary of data on heavy metal accumulation biomonitoring toxicity and tolerance metal contamination and pollution in the environment and the importance of biodiversity for environmental monitoring and cleanup of metal contaminated and polluted ecosystems It advocates the use of bacteria mycorrhizae freshwater algae salt marshes bryo and pteridophytes angiosperms constructed wetlands reed beds and floating plant systems and tree crops to treat wastewaters and industrial effluents containing toxic heavy metals Theoretical Biochemistry Leif A. Eriksson, 2001-02-19 Theoretical chemistry has been an area of tremendous expansion and development over the past decade from an approach where we were able to treat only a few atoms quantum mechanically or make fairly crude molecular dynamics simulations into a discipline with an accuracy and predictive power that has rendered it an essential complementary tool to experiment in basically all areas of science This volume gives a flavour of the types of problems in

biochemistry that theoretical calculations can solve at present and illustrates the tremendous predictive power these approaches possess A wide range of computational approaches from classical MD and Monte Carlo methods via semi empirical and DFT approaches on isolated model systems to Car Parinello QM MD and novel hybrid QM MM studies are covered The systems investigated also cover a broad range from membrane bound proteins to various types of enzymatic reactions as well as inhibitor studies cofactor properties solvent effects transcription and radiation damage to DNA

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 and distinct characteristics of metallo enzymes proteins and amino acids bonded to copper zinc iron and more <u>Transition Metal Catalysis in Aerobic Alcohol Oxidation</u> Francesca Cardona, Camilla Parmeggiani, 2014-10-21 The oxidation of primary and secondary alcohols to the corresponding carbonyl compounds is of fundamental importance in organic synthesis due to the wide use of these products as precursors and intermediates for many drugs vitamins and fragrances However traditional oxidants are often toxic and release considerable amounts of by products As an alternative oxygen is among the cheaper and less polluting stoichiometric oxidants and the implementation of a transition metal based catalyst in combination with oxygen represents an emerging alternative to the traditional procedures This book aims to give an overview of the aerobic oxidation of alcohols catalyzed by transition metals and covers the most important advances in the last fifteen years Following an introductory chapter on homogeneous heterogeneous and nano catalysis use of copper ruthenium palladium gold vanadium and iron are discussed in turn The book concludes with a useful overview that includes representative experimental procedures This book will provide a valuable reference to organic chemists and green chemists in academia and industry **Bioinorganic Catalysis** Jan Reedijk, Elisabeth Bouwman, 1999-02-02 Provides the latest research results and suggests new topics for interdisciplinary study of metal ions catalysis and biochemical systems Second Edition highlights potential applications includes new chapters on zinc and FeS clusters presents new X ray analysis of metalloenzymes and more Metals Ions in Biological System Astrid Sigel, Helmut Sigel, 2002-03-06 Volume 39 Molybdenum and Tungsten Their Roles in Biological Processes is devoted soley to the vital research area on molybdenum and tungsten and their role in biology It offers a comprehensive and timely account of this fascinating topic by 40 distinguished international authorities Topics include transport homeostasis regulation and binding of molybdate and tungstate to proteins crystallographic characterization coordination of complexes and biosynthesis

The Metal-Driven Biogeochemistry of Gaseous Compounds in the Environment Peter M.H. Kroneck, Martha E. Sosa Torres, 2014-11-22 MILS 14 provides a most up to date view of the exciting biogeochemistry of gases in our environment as driven mostly by microorganisms These employ a machinery of sophisticated metalloenzymes where especially transition

metals such as Fe Ni Cu Mo W play a fundamental role that is in the activation transformation and syntheses of gases like dihydrogen methane carbon monoxide acetylene and those of the biological nitrogen and sulfur cycles The Metal Driven Biogeochemistry of Gaseous Compounds in the Environment is a vibrant research area based mainly on structural and microbial biology inorganic biological chemistry and environmental biochemistry All this is covered in an authoritative manner in 11 stimulating chapters written by 26 internationally recognized experts and supported by nearly 1200 references informative tables and about 100 illustrations two thirds in color MILS 14 also provides excellent information for teaching Peter M H Kroneck is a bioinorganic chemist who is exploring the role of transition metals in biology with a focus on functional and structural aspects of microbial iron copper and molybdenum enzymes and their impact on the biogeochemical cycles of nitrogen and sulfur Martha E Sosa Torres is an inorganic chemist with special interests in magnetic properties of newly synthesized transition metal complexes and their reactivity towards molecular oxygen applying kinetic electrochemical and spectroscopic techniques Sustaining Life on Planet Earth: Metalloenzymes Mastering Dioxygen and Other Chewy Gases Peter M. H Kroneck, Martha E. Sosa Torres, 2015-02-23 MILS 15 provides an up to date review of the metalloenzymes involved in the activation production and conversion of molecular oxygen as well as the functionalization of the chemically inert gases methane and ammonia Found either in aerobes humans animals plants microorganisms or in anaerobes so called impossible bacteria these enzymes employ preferentially iron and copper at their active sites in order to conserve energy by redox driven proton pumps to convert methane to methanol or ammonia to hydroxylamine or other compounds When it comes to the light driven production of molecular oxygen the tetranuclear manganese cluster of photosystem II must be regarded as the key player However dioxygen can also be produced in the dark by heme iron dependent dismutation of oxyanions Metalloenzymes Mastering Dioxygen and Other Chewy Gases is a vibrant research area based mainly on structural and microbial biology inorganic biological chemistry and environmental biochemistry All this is covered in an authoritative manner in 7 stimulating chapters written by 21 internationally recognized experts and supported by nearly 1100 references informative tables and over 140 illustrations many in color MILS 15 provides excellent information for teaching it is also closely related to MILS 14 The Metal Driven Biogeochemistry of Gaseous Compounds in the Environment Peter M H Kroneck is a bioinorganic chemist who is exploring the role of transition metals in biology with a focus on functional and structural aspects of microbial iron copper and molybdenum enzymes and their impact on the biogeochemical cyles of nitrogen and sulfur Martha E Sosa Torres is an inorganic chemist with special interests in magnetic properties of newly synthesized transition metal complexes and their reactivity towards molecular oxygen applying kinetic electrochemical and spectroscopic techniques Distance Measurements in Biological Systems by EPR Lawrence J. Berliner, Sandra S. Eaton, Gareth R. Eaton, 2006-02-20 Distance measurements in biological systems by EPR The foundation for understanding function and dynamics of biological systems is knowledge of their structure Many experimental methodologies are used for determination

of structure each with special utility Volumes in this series on Biological Magnetic Resonance emphasize the methods that involve magnetic resonance This volume seeks to provide a critical evaluation of EPR methods for determining the distances between two unpaired electrons The editors invited the authors to make this a very practical book with specific numerical examples of how experimental data is worked up to produce a distance estimate and realistic assessments of uncertainties and of the range of applicability along with examples of the power of the technique to answer biological problems The first chapter is an overview by two of the editors of EPR methods to determine distances with a focus on the range of applicability The next chapter also by the Batons reviews what is known about electron spin relaxation times that are needed in estimating distances between spins or in selecting appropriate temperatures for particular experiments Albert Beth and Eric Hustedt describe the information about spin spin interaction that one can obtain by simulating CW EPR line shapes of nitroxyl radicals The information in fluid solution CW EPR spectra of dual spin labeled proteins is illustrated by Hassane Mchaourab and Eduardo Perozo

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