

metal ions in biological systems

volume 36

*interrelations between free radicals and
metal ions in life processes*

edited by

Astrid Sigel
and Helmut Sigel



Metal Ions In Biological Systems Vol 25 Interrelations Among Metal Ions Enzymes And Gene Expression

CO Houle



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Metal Ions In Biological Systems, Volume 44 Helmut Sigel, Roland Sigel, 2005-03-01 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

Metal Ions in Biological Systems Astrid Sigel, Helmut Sigel, 1996-02-05 Volume 32 covers metal ion bonding to phosphate sugar and nucleobase residues the ambidentate as well as the stacking properties of nucleotides kinetic aspects as well as properties of nucleobase and nucleotide analogs and the oligonucleotides and nucleic acids It examines electron transfer reactions over a large number of base repairs in DNA the role of metal ions in ribozymes ternary metal nucleic acid base protein complexes metal responsive gene regulation and the structure activity relationships of anticancer drugs and their action on DNA including cisplatin and the role of proteins

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

Metal Ions in Biological Systems, Volume 43 - Biogeochemical Cycles of Elements Astrid Sigel, Helmut Sigel, Roland K. O. 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

Molecular Biology and Toxicology of Metals Rudolfs K. Zalups, D. James Koropatnick, 2000-02-24 Molecular Biology and Toxicology of Metals provides a critical review and analysis of the current state of knowledge of metal ion transport and metabolism in prokaryotic and eukaryotic cellular systems It covers the latest information on specific metals and the biological molecules with which metals interact It also details mechanisms in the handling and toxicity of metals in specific organ systems and the role of metals in cell signalling and gene transcription in target cells This book is sure to prove a fertile meeting ground for the disciplines of molecular genetics and metal toxicology

Interrelations between Essential Metal Ions and Human Diseases Astrid 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 Diseases.

Cadmium: From Toxicity to Essentiality Astrid Sigel, Helmut Sigel, Roland K O 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 ^{113}Cd 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 carcinogen for humans are highlighted.

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 edited previously 44 volumes.

in the series Metal Ions in Biological Systems **Indian Journal of Chemistry** ,1991 **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 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

Metal Ions In Biological Systems Vol 25 Interrelations Among Metal Ions Enzymes And Gene Expression Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Metal Ions In Biological Systems Vol 25 Interrelations Among Metal Ions Enzymes And Gene Expression**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Introduction

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