



# Metal Ions in Biological Systems: High Molecular Complexes: 3

Sigel, Helmut

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# Metal Ions In Biological Systems High Molecular Complexes

**Peter Kroneck, Martha Sosa Torres**



## **Metal Ions In Biological Systems High Molecular Complexes:**

**Metal Ions in Biological Systems** Helmut Sigel, 1974      **Metal Ions in Biological Systems: High molecular complexes** Helmut Sigel, 1973      **Metal Ions in Biological Systems** Helmut Sigel, 1986-11-25 This volume focuses on the physical methods to probe the coordination sphere of metal ions in biological systems which are based on para magnetic species namely the electron nuclear double resonance ENDOR electron paramagnetic resonance EPR and electron spin echo ESE techniques      **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, Volume 43 - Biogeochemical Cycles of Elements*** Helmut 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, 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      ***Metals, Microbes, and Minerals - The Biogeochemical Side of Life*** Peter Kroneck, Martha Sosa Torres, 2021-01-18 One of the biggest questions in today s biochemistry is how biological molecules became essential for the processes that occur within living cells This new book from outstanding Metal Ions in Life Science series gives an overview about biochemical evolution of organic molecules and metabolic pathways in living systems and outlines the vital biochemical processes in microbial cells in which metals are involved      **Lead: Its Effects on Environment and Health** Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2017-04-10 Volume 17 entitled Lead Its Effects on Environment and Health of the series Metal Ions in Life Sciences centers on the interrelations between biosystems and lead The book provides an up to date review of the bioinorganic chemistry of this metal and its ions it covers the biogeochemistry of lead its use not only as gasoline additive and anthropogenic release into the environment its cycling and speciation in the atmosphere in waters soils and sediments and also in mammalian organs The analytical tools to determine and to quantify this toxic element in blood saliva urine hair etc are described The properties of lead II complexes formed with amino acids peptides proteins including metallothioneins nucleobases nucleotides nucleic acids and other ligands of biological relevance are summarized for the solid state and for aqueous solutions as well All this is important for obtaining a coherent picture on

the properties of lead its effects on plants and toxic actions on mammalian organs This and more is treated in an authoritative and timely manner in the 16 stimulating chapters of Volume 17 which are written by 36 internationally recognized experts from 13 nations The impact of this recently again vibrant research area is manifested in nearly 2000 references over 50 tables and more than 100 illustrations half in color Lead Its Effects on Environment and Health is an essential resource for scientists working in the wide range from material sciences inorganic biochemistry all the way through to medicine including the clinic not forgetting that it also provides excellent information for teaching **Metal-Carbon**

**Bonds in Enzymes and Cofactors** Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2015-07-24 The occurrence of a wide variety of metal carbon bonds in living organisms ranging from bacteria to humans is only recently recognized Of course the historical examples are the B12 coenzymes containing cobalt carbon bonds but now such bonds are also known for nickel iron copper and other transition metal ions There is no other comparable book MILS 6 written by 17 experts summarizes the most recent insights into this fascinating topic **Interplay between Metal Ions and Nucleic Acids** Astrid Sigel, Helmut Sigel, Roland KO Sigel, 2012-01-02

Interplay between Metal Ions and Nucleic Acids provides in an authoritative and timely manner in 12 stimulating chapters written by 24 internationally recognized experts from 8 nations and supported by nearly 1500 references about 20 tables and 125 illustrations many in color a most up to date view on metal ion nucleic acid interactions the characterization of which is covered in solution and in the solid state The volume concentrates on modern developments encompassing topics in the wide range from G quadruplexes via DNazymes catalysis at the DNA scaffold and metal mediated base pairs to peptide nucleic acids PNAs being thus of relevance e g for chemistry and nanotechnology but also for molecular biology and genetic diagnostics **Essential Metals in Medicine: Therapeutic Use and Toxicity of**

**Metal Ions in the Clinic** Peggy L. Carver, 2019-01-14 Volume 19 entitled Essential Metals in Medicine Therapeutic Use and Toxicity of Metal Ions in the Clinic of the series Metal Ions in Life Sciences centers on the role of metal ions in clinical medicine Metal ions are tightly regulated in human health while essential to life they can be toxic as well Following an introductory chapter briefly discussing several important metal related drugs and diseases and a chapter about drug development the focus is first on iron its essentiality for pathogens and humans as well as its toxicity Chelation therapy is addressed in the context of thalassemia its relationship to neurodegenerative diseases and also the risks connected with iron administration are pointed out A subject of intense debate is the essentiality of chromium and vanadium For example chromium III compounds are taken as a nutritional supplement by athletes and bodybuilders in contrast chromate Cr VI is toxic and a carcinogen for humans The beneficial and toxic effects of manganese cobalt and copper on humans are discussed The need for antiparasitic agents is emphasized as well as the clinical aspects of metal containing antidotes for cyanide poisoning In addition to the essential and possibly essential ones also other metal ions play important roles in human health causing harm like the metalloid arsenic lead or cadmium or being used in diagnosis or treatment of human diseases like

gadolinium gallium lithium gold silver or platinum The impact of this vibrant research area on metals in the clinic is provided in 14 stimulating chapters written by internationally recognized experts from the Americas Europe and China and is manifested by approximately 2000 references and about 90 illustrations and tables Essential Metals in Medicine Therapeutic Use and Toxicity of Metal Ions in the Clinic is an essential resource for scientists working in the wide range from pharmacology enzymology material sciences analytical organic and inorganic biochemistry all the way through to medicine not forgetting that it also provides excellent information for teaching

*Structural and Catalytic Roles of Metal Ions in RNA* Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2015-07-24 The discovery of ribozymes nearly 30 years ago triggered a huge interest in the chemistry and biology of RNAs Much of the recently made progress focusing on metal ions is addressed in MILS 9 This book written by 28 internationally recognized experts from 8 nations provides a most up to date view and is thus of special relevance for colleagues teaching courses in biological inorganic chemistry and for researchers dealing e g with nucleic acids gene expression and enzymology but also for those in analytical and bioinorganic chemistry or biophysics Structural and Catalytic Roles of Metal Ions in RNA describes in an authoritative and timely manner in 12 stimulating chapters supported by nearly 1600 references 13 tables and 75 illustrations mostly in color metal ion binding motifs methods to detect and characterize metal ion binding sites and the role of metal ions in folding and catalysis It deals with diffuse metal ion binding RNA quadruplexes the regulation of riboswitches metal ions and ribozymes including artificial ribozymes The spliceosome the ribosome ribozymes involving redox cofactors as well as the binding of kinetically inert metal ions to RNA are also covered

**Metallo-Drugs: Development and Action of Anticancer Agents** Astrid Sigel, Helmut Sigel, Eva Freisinger, Roland K.O. Sigel, 2018-02-05 Volume 18 entitled Metallo Drugs Development and Action of Anticancer Agents of the series Metal Ions in Life Sciences centers on biological medicinal inorganic chemistry The serendipitous discovery of the antitumor activity of cis diamminodichloroplatinum II cisplatin by Barnett Rosenberg in the 1960s is a landmark in metallodrug based chemotherapy The success of cisplatin in the clinic followed by oxaliplatin and carboplatin along with their drawbacks relating mainly to resistance development and severe toxicity initiated research on polynuclear platinum complexes and on Pt IV complexes as prodrugs Furthermore the indicated shortcomings led to the exploration of other transition and main group metal ions among them Ru II III Au I III Ti IV V IV V and Ga III including also the essential metal ions Fe II III Cu I II and Zn II Ionic as well as covalent and non covalent interactions between structurally very different complexes and biomolecules like nucleic acids proteins and carbohydrates are studied and discussed with regard to their possible anticancer actions Hence MILS 18 summarizes the research at the forefront of medicinal inorganic chemistry including studies on the next generation tailor made anticancer drugs All this and more is treated in an authoritative and timely manner in the 17 stimulating chapters of this book written by 39 internationally recognized experts from 10 nations from the US via Europe to China and Australia The impact of this vibrant research area is manifested by more than 2700

references nearly 150 illustrations more than half in color and several comprehensive tables *Metallo Drugs Development and Action of Anticancer Agents* is an essential resource for scientists working in the wide range from enzymology material sciences analytical organic and inorganic biochemistry all the way through to medicine including the clinic not forgetting that it also provides excellent information for teaching *Organometallics in Environment and Toxicology* Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2015-07-24 Volume 7 devoted to the vital and rapidly expanding research area around metal carbon bonds see also MILS 6 focuses on the environment With more than 2500 references 35 tables and nearly 50 illustrations many of these in color it is an essential resource for scientists working in the wide range from organometallic chemistry inorganic biochemistry environmental toxicology all the way through to physiology and medicine In 14 stimulating chapters written by 29 internationally recognized experts *Organometallics in Environment and Toxicology* highlights in an authoritative and timely manner environmental cycles of elements involving organometalloid compounds as well as the analytical determination of such species This book examines methane formation involving the nickel coenzyme F430 as well as the organometalloid compounds formed by tin lead arsenic antimony bismuth selenium tellurium and mercury In addition it deals with the environmental bioindication biomonitoring and bioremediation of organometalloids and it terminates with methylated metalloid species occurring in humans by evaluating assumed and proven health effects caused by these compounds *Metallothioneins and Related Chelators* Astrid Sigel, Helmut Sigel, Roland K.O. Sigel, 2015-07-24 These sulfur rich chelators being important in metal ion homeostasis find increasing attention MILS 5 written by 30 internationally recognized experts focuses on this hot topic The reader is supported by about 20 tables more than 80 illustrations and nearly 2000 references This book is an essential resource for scientists working in a wide range of disciplines from environmental toxicology and inorganic biochemistry all the way through to physiology and medicine *Biomineralization* Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2008-04-30 Biomineralization is a hot topic in the area of materials and this volume in the Metals Ions in Life Sciences series takes a systematic approach dealing with all aspects from the fundamentals to applications Key biological features of biomineralization such as gene directed growth and the role of enzymes are covered as are new areas including copper zinc in the jaws of invertebrates or magnetic biomaterials that help birds with navigation *Nickel and Its Surprising Impact in Nature* Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2007-03-13 Helmut Sigel Astrid Sigel and Roland K O Sigel in close cooperation with John Wiley Sons launch a new Series Metal Ions in Life Sciences The philosophy of the Series is based on the one successfully applied to a previous series published by another publisher but the move from biological systems to life sciences will open the aims and scope and allow for the publication of books touching on the interface between chemistry biology pharmacology biochemistry and medicine Volume 2 focuses on the vibrant research area concerning nickel as well as its complexes and their role in Nature With more than 2 800 references and over 130 illustrations it is an essential resource for scientists working in the wide range from inorganic biochemistry all the way

through to medicine In 17 stimulating chapters written by 47 internationally recognized experts Nickel and Its Surprising Impact in Nature highlights critically the biogeochemistry of nickel its role in the environment in plants and cyanobacteria as well as for the gastric pathogen *Helicobacter pylori* for gene expression and carcinogenesis In addition it covers the complex forming properties of nickel with amino acids peptides phosphates nucleotides and nucleic acids The volume also provides sophisticated insights in the recent progress made in understanding the role of nickel in enzymes such as ureases hydrogenases superoxide dismutases acireductone dioxygenases acetyl coenzyme A synthases carbon monoxide dehydrogenases methyl coenzyme M reductases and it reveals the chaperones of nickel metabolism The Ubiquitous Roles of Cytochrome P450 Proteins Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2007-04-30 Helmut Sigel Astrid Sigel and Roland K O Sigel in close cooperation with John Wiley Sons launch a new Series Metal Ions in Life Sciences There exists a whole range of books on Cytochromes P450 but none with the focus of this volume This new volume in the Series concentrates on current hot topics in the area and tries to work out the underlying common developments As a result the reader will find a systematic account of new results in this exciting research area The table of contents gives an idea on the wide span of chapters starting with overviews and the presentation of specific systems and ending with chapters on carbon carbon bond cleavage by P450 systems drug metabolism as catalyzed by P450 systems decomposition of xenobiotics by P450 enzymes and design and engineering of new P450 systems **Structure and Function of Haemocyanin** J.V. Bannister, 2012-12-06

**Metal Ions in Bio-Imaging Techniques** Astrid Sigel, Eva Freisinger, Roland K.O. Sigel, 2021-03-08 Volume 22 entitled Metal Ions in Bio Imaging Techniques of the series Metal Ions in Life Sciences deals with metal ions as tools in imaging This dates back to the first half of the past century when barium sulfate was orally given to patients undergoing X ray examination The use of contrast agents has since developed into a large interdisciplinary field encompassing not only medicine but also chemistry material sciences physics biology engineering and computer sciences MILS 22 provides deep and current insights in 17 stimulating chapters on the new research frontiers of this fast growing field on bio imaging and beyond For example adding bio sensing yields theranostic agents meaning diagnosis and therapy linked in the same molecule ions of Gd Mn Fe Co Ir <sup>99m</sup>Tc etc are involved Other important topics are e g metal complexes in paramagnetic Chemical Exchange Transfer paraCEST radiometals for Positron Emission Tomography PET imaging or paramagnetic metal ion probes for <sup>19</sup>F magnetic resonance imaging MILS 22 is written by 57 internationally recognized experts from 12 countries that is from the US via Europe to China The impact of this vibrant research area is manifested by more than 2300 references and nearly 120 figures mostly in color and several informative tables To conclude Metal Ions in Bio Imaging Techniques is an essential resource for scientists working in the wide range from material sciences enzymology analytic organic and inorganic biochemistry all the way through to medicine including the clinic not forgetting that also excellent information for teaching is provided

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## **Table of Contents Metal Ions In Biological Systems High Molecular Complexes**

1. Understanding the eBook Metal Ions In Biological Systems High Molecular Complexes
  - The Rise of Digital Reading Metal Ions In Biological Systems High Molecular Complexes
  - Advantages of eBooks Over Traditional Books
2. Identifying Metal Ions In Biological Systems High Molecular Complexes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Metal Ions In Biological Systems High Molecular Complexes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Metal Ions In Biological Systems High Molecular Complexes
  - Personalized Recommendations
  - Metal Ions In Biological Systems High Molecular Complexes User Reviews and Ratings
  - Metal Ions In Biological Systems High Molecular Complexes and Bestseller Lists
5. Accessing Metal Ions In Biological Systems High Molecular Complexes Free and Paid eBooks



- Metal Ions In Biological Systems High Molecular Complexes Public Domain eBooks
- Metal Ions In Biological Systems High Molecular Complexes eBook Subscription Services
- Metal Ions In Biological Systems High Molecular Complexes Budget-Friendly Options
- 6. Navigating Metal Ions In Biological Systems High Molecular Complexes eBook Formats
  - ePub, PDF, MOBI, and More
  - Metal Ions In Biological Systems High Molecular Complexes Compatibility with Devices
  - Metal Ions In Biological Systems High Molecular Complexes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Metal Ions In Biological Systems High Molecular Complexes
  - Highlighting and Note-Taking Metal Ions In Biological Systems High Molecular Complexes
  - Interactive Elements Metal Ions In Biological Systems High Molecular Complexes
- 8. Staying Engaged with Metal Ions In Biological Systems High Molecular Complexes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Metal Ions In Biological Systems High Molecular Complexes
- 9. Balancing eBooks and Physical Books Metal Ions In Biological Systems High Molecular Complexes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Metal Ions In Biological Systems High Molecular Complexes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Metal Ions In Biological Systems High Molecular Complexes
  - Setting Reading Goals Metal Ions In Biological Systems High Molecular Complexes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Metal Ions In Biological Systems High Molecular Complexes
  - Fact-Checking eBook Content of Metal Ions In Biological Systems High Molecular Complexes
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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