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**Metal Ion
Homeostasis**
**Molecular Biology
and Chemistry**

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Metal Ion Homeostasis Molecular Biology And Chemistry Proceedings Of A Ucl

Helmut Sigel



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Metal Ion Homeostasis ,1983 *Metal Ion Homeostasis* Dean H. Hamer,Dennis R. Winge,1989-01-10 Discusses how metals are routed and incorporated into regulatory and catalytic proteins and how their pathways are regulated Describes the diverse strategies that organisms have adopted to acquire utilize and store essential metals while protecting themselves against metal toxicity Metal ion homeostasis and detoxification are considered in terms of structure and regulation Covers the role of metals in DNA binding proteins and gene regulation the chemistry and biology of metal binding peptides and methods of metal detoxification Also includes structural and functional studies of metalloproteins and a section on the physiology and diseases of unbalanced metal ion homeostasis **Dissertation Abstracts International** ,1996 **Cellular and Molecular Biology of Metals** Rudolfs K. Zalups,D. James Koropatnick,2010-05-21 With chapter contributions from more than 30 metal biology experts Cellular and Molecular Biology of Metals explains the role of key divalent metal ions involved in the molecular and cellular biology of various target cell populations Although it primarily focuses on homeostatic metals such as nickel zinc and chromium the text also discusses **Molecular Biology of Metal Homeostasis and Detoxification** Markus J. Tamás,Enrico Martinoia,2006-07-07 One of the challenges faced by every cell as well as by whole organisms is to maintain appropriate concentrations of essential nutrient metals while excluding nonessential toxic metals Toward that end all organisms have developed mechanisms for metal homeostasis and detoxification to maintain metal levels within physiological limits This book brings together current knowledge of the molecular basis of metal homeostasis and detoxification in various eukaryotic model systems including yeasts plants and mammals It focuses on the cellular systems controlling metal transport intracellular distribution and immobilization as well as on systems regulating metal dependent transcription In addition to environmental aspects including phytoremediation the book treats the pathophysiology of metal deficiency and overload in relation to disease **Metal Ions** Laetitia Pele,2011-06-01 Proceedings of the 11th International Symposium on Metal Ions in Biology Medicine held in Homerton College University of Cambridge UK on 20 23 June 2011 **Ions Métalliques en Biologie Et en Médecine** Philippe Collery,1990 Contains proceedings of the First International Symposium on Metal Ions in Biology Medicine held in Reims France on 16 to 19 May 1990 *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 **Interplay Between Metal Ions and Nucleic Acids** Astrid

Sigel, Helmut Sigel, Roland K. O. 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 Metal Ions in Biology and Medicine, 1990

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 **Metal Ions in Biology and Medicine**, 1992 **Metal Ions in Biology and Medicine** Philippe Collery, 2000 The objective of the 6th ISMIBM is to foster exchange of opinions between professionals and specialists working on analysis research and applications of metal ions trace elements and minerals in biological biochemical medical sciences toxicology and environmental health The scientific program composed of plenary and concurrent sessions and poster presentations is designed to promote intensive and productive dialogue among experts in these fields A special program with short courses and mini symposia have also been organised featuring specialised areas including toxicology analysis pathology remediation strategies and environmental medicine Original contributions oral and or poster presentations are invited on the following themes Metals and Environmental Health Molecular Toxicology of Metals Carcinogenicity of Metals Speciation of Metals and Other Elements Uses of Metals in Clinical Applications Metals and Disease Environmental and Toxicologic Pathology Epidemiology and Occupational Health Metals and Aging Metals and Homeostasis Effects of Low and High Nutritional Trace

Element Status Metals and Hormone Actions Metals and Enzyme Activity Metals and Chelation Therapy Health Effects of Arsenic Risk Assessment of Trace Element Status and Health Advanced Methods for the Analysis of Trace Elements and Metal Ions **Metal Ions in Biological Systems** Helmut Sigel,1985-07-30 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 chemistry environmental chemistry biophysics pharmacy and medicine Volumes deal with such topics as the formation stability structure and reactivity of biological compounds of low and high molecular weight containing metal ions the metabolism and transport of metal ions and their complexes and new models of complicated natural structures and processes Volume 21 describes the underlying theories of nuclear magnetic resonance NMR promoting a wider use of NMR in studies of paramagnetic species In six concise chapters by leading international authorities Applications of Nuclear Magnetic Resonance to Paramagnetic Species outlines the most recent developments regarding the use of nuclear relaxation as a source for structural information examines studies of magnetically coupled metalloproteins and metal porphyrin induced dipolar shifts for conformational analysis and evaluates the potential of paramagnetic ions as agents for enhancing NMR image contrast With over 500 references that facilitate further research Applications of Nuclear Magnetic Resonance to Paramagnetic Species is an essential resource for scientists and students in such disciplines as biophysics bioinorganic inorganic and coordination chemistry biochemistry molecular biology and enzymology Book jacket *Metal Ions in Biological Systems* Astrid Sigel,2001-01-30 Focuses on the vibrant area of probing enzymes or proteins by metal ions and small complexes Offers a summary of the basic characteristics of the amide bond emphasizing its proton and metal ion interactions including a quantitative analysis of its hydrolysis and formation Ions Métalliques en Biologie Et en Médecine Philippe Collery,1994 A fuller appreciation of the medical physical and biological aspects of metals is necessary to advance knowledge about which metals are vital to human health the treatment of disease their uses the environmental problems caused by their use and their interactions with other chemical and biological products This book written by leading world specialists surveys the latest advances in the understanding of metals sets out the bases for future research and constitutes a remarkable working tool in the context of international research co operation A work that will enthrall specialists in internal medicine and respiratory disease cancerologists and biologists 3rd International Symposium on Metal Ions in Biology and Medicine held in Montreal Canada May 1994 **Metal Ions in Gene Regulation** Simon Silver,William Walden,2012-12-06 This is the first volume on the role of metal ions in regulating genes to focus not only on toxicity effects of metals but also on the role of metal ions in normal metabolisms in both prokaryotes and in eukaryotes This book is a comprehensive treatment of the role of metal ions in gene regulation and it will be of great utility for those doing basic biological and biomedical research *Metal Ions in Biological Systems* Astrid Sigel,Helmut Sigel,1996-02-29 Volume 33 focuses on the vibrant

research area of probing nucleic acids the carriers of the genetic code by metal ion complexes of small molecules providing an authoritative timely account of this fascinating topic by over 50 distinguished experts

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