

BIOCHEMISTRY OF THE ELEMENTS
Series Editor: Earl Frieden

Biochemistry of Nickel

Robert P. Hausinger

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Earl Frieden



Biochemistry Of Nickel:

Biochemistry of Nickel Robert P. Hausinger, 2013-06-29 In this timely monograph the author summarizes the rapidly growing body of knowledge regarding nickel by providing a balanced discussion of its harmful and beneficial effects Coverage includes a history of nickel the chemistry of nickel descriptions of the four known enzymes which contain nickel and nickel metabolism in microbes plants and animals Taken as a whole Dr Hausinger's work will highlight key features of this important element and help define future research

The Biological Chemistry of Nickel Deborah Zamble, Magdalena Rowińska-Żyrek, Henryk Kozłowski, 2017-03-24 Metal ions play key roles in biology Many are essential for catalysis for electron transfer and for the fixation sensing and metabolism of gases Others compete with those essential metal ions or have toxic or pharmacological effects This book is structured around the periodic table and focuses on the control of metal ions in cells It addresses the molecular aspects of binding transport and storage that ensure balanced levels of the essential elements Organisms have also developed mechanisms to deal with the non essential metal ions However through new uses and manufacturing processes organisms are increasingly exposed to changing levels of both essential and non essential ions in new chemical forms They may not have developed defenses against some of these forms such as nanoparticles Many diseases such as cancer diabetes and neurodegeneration are associated with metal ion imbalance There may be a deficiency of the essential metals overload of either essential or non essential metals or perturbation of the overall natural balance This book is the first to comprehensively survey the molecular nature of the overall natural balance of metal ions in nutrition toxicology and pharmacology It is written as an introduction to research for students and researchers in academia and industry and begins with a chapter by Professor R J P Williams FRS

Metal Ions in Biological Systems Helmut Sigel, Astrid Sigel, 2024-11-01 This book considers nickel in the environment and in aquatic systems and outlines its role for plants It discusses the toxicology of nickel compounds and the role of nickel in carcinogenesis focusing on the analysis of nickel in biological materials and the related difficulties

The Bioinorganic Chemistry of Nickel Jack R. Lancaster, 1988

Bioinorganic Chemistry of Nickel Michael J. Maroney, Stefano Ciurli, 2020-06-16 The chemistry of nickel in biological systems has been intensely investigated since the discovery of the essential role played by this transition metal in the enzyme urease ca 1975 Since then several nickel dependent enzymes have been discovered and characterized at the molecular level using structural spectroscopic and kinetic methods and insight into reaction mechanisms has been elaborated using synthetic and computational models The dual role of nickel as both an essential nutrient and as a toxin has prompted efforts to understand the molecular mechanisms of nickel toxicology and to uncover the means by which cells select nickel from among a pool of different and more readily available metal ions and thus regulate the intracellular chemistry of nickel This latter effort highlights the importance of proteins involved in the extra and intra cellular sensing of nickel the roles of nickel selective proteins for import and export and nickel responsive transcription factors all of which are important for regulating

nickel homeostasis In this Special Issue the contributing authors have covered recent advances in many of these aspects of nickel biochemistry including toxicology bacterial pathogenesis carcinogenesis computational and synthetic models nickel trafficking proteins and enzymology Biochemistry of the Essential Ultratrace Elements Earl Frieden, 2012-12-06 The remarkable development of molecular biology has had its counterpart in an impressive growth of a segment of biology that might be described as atomic biology The past several decades have witnessed an explosive growth in our knowledge of the many elements that are essential for life and maintenance of plants and animals These essential elements include the bulk elements hydrogen carbon nitrogen oxygen and sulfur the macrominerals sodium potassium calcium magnesium chloride and phosphorus and the trace elements This last group includes the ultra trace elements and iron zinc and copper Only the ultratrace elements are featured in this book Iron has attracted so much research that two volumes are devoted to this metal The Biochemistry of Non Heme Iron by A Bezboravainy Plenum Press 1980 and The Biochemistry of Heme Iron in preparation Copper and zinc are also represented by a separate volume in this series The present volume begins with a discussion of essentiality as applied to the elements and a survey of the entire spectrum of possible required elements

Transition Metals in Microbial Metabolism Gunther Winkelmann, 1997-12-23 Comprises 17 papers exploring the role of transition metals in a variety of metabolic processes from simple interactions where the protein matrix does little more than bind an inorganic ion to systems in which the binding site of the protein modifies the metals properties considerably to the very complex multimetallic systems which may function as part of a supramolecular assembly Intended as a reference for students and industry professionals especially those working in biotechnology Annotation copyrighted by Book News Inc Portland OR *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

Nickel and Its Surprising Impact in Nature Astrid Sigel, Helmut Sigel, Roland K. O. Sigel, 2007-03-12 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 **Biochemistry and Physiology of Anaerobic Bacteria** Lars G. Ljungdahl, Michael W. Adams, Larry L. Barton, James G. Ferry, Michael K. Johnson, 2007-05-08 During the past twenty years multitudes of exciting discoveries in the field of anaerobic bacteria have been made Biochemistry and Physiology of Anaerobic Bacteria explores the full range of these microorganisms Many anaerobes have been found to have the uniquely fascinating quality of being able to survive indeed even thrive in extreme environments Anaerobic bacteria often do not require oxygen can survive extremes in temperature and can withstand the presence of toxins and heavy metals In addition these organisms have very different metabolic processes than conventional microorganisms The wide diversity of metabolism in anaerobes is only part of the story They have distinct energies cytochromes electron transport proteins hydrogenases and dehydrogenases Their molecular biology physiology and ability to use many types of electron receptors CO₂ sulfur nitrogen and metal oxides are also extraordinary With practical applications ranging from wastewater treatment to food storage issues clinical diagnosis and treatment of a wide range of medical conditions to decontamination of heavy metal exposures Biochemistry and Physiology of Anaerobic Bacteria will prove indispensable to researchers and students alike Biochemistry Debajyoti Das, 1980 *Biochemistry* David E. Metzler, 2001-04-25 The most comprehensive textbook reference ever to cover the chemical basis of life the Green Bible of Biochemistry has been a well respected contribution to the field for more than twenty years The complex structures that make up cells are described in detail along with the forces that hold them together and the chemical reactions that allow for

recognition signaling and movement There is ample information on the human body its genome and the action of muscles eyes and the brain The complete set deals with the natural world treating the metabolism of bacteria toxins antibiotics specialized compounds made by plants photosynthesis luminescence of fireflies among many other topics The most comprehensive biochemistry text reference available on the market Organized into two volumes comprising 32 chapters and containing the latest research in the field Biological content is emphasized for example macromolecular structures and enzyme action are discussed

The Nickel Processing System Involved in the Insertion of Nickel Into CO-dehydrogenase of Rhodospirillum Rubrum Richard K. Watt,1998 **Metal Ions in Biology** Adish Tyagi,Rohit Singh Chauhan,A. K. Tyagi,2025-05-20 This book discusses the inherent need for and significance of metal ions in metabolic reactions It details their essential elements and mechanistic prospects in regulating biological reactions as well as covers the broad domain of elements including main group as well as transition elements in a comparative and comprehensive manner Contemporary and advanced topics such as nuclear medicine and biomineralization are also covered Features Highlights the different behaviors of Fe Cu proteins and the structural changes during their biological functioning Discusses the mechanistic prospects of various enzymes and proteins e g Cu Zn SOD zinc finger and ionophores Explores the chemical and biological prospects of trace and ultra trace elements Includes biomimetic models of iron and copper Reviews the criteria for nature selecting metal ions why only certain elements are essential and the differences between biologically induced and biologically controlled biomineralization This book is aimed at graduate students and researchers in chemical engineering materials science chemistry and biological sciences **Environmental Health Perspectives** ,1993 Transition Elements—Advances in Research and Application: 2012 Edition ,2012-12-26 Transition Elements Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Transition Elements The editors have built Transition Elements Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Transition Elements in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Transition Elements Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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Metals and Genetics Bibudhendra Sarkar,2012-12-06 During the past few years major scientific discoveries have greatly contributed to our understanding of the relationship between metals and genetics The fields which have contributed to this area range from Clinical Medicine and Genetics to Biochemistry and Chemistry The aim of this book is to bring together investigators from these diverse fields to reflect on the broad implications of direct and indirect interactions of metals and genetic components The volume begins with a tribute to the late Karen Wetterhahn an outstanding scientist in the field who will be sadly missed by her friends and colleagues because of her untimely death The book has 28 chapters contributed by scientists who are internationally known for their expertise and outstanding research The subject matters are divided into five major sections The first section discusses genetic response to environmental exposure to metals Potentially devastating health crises have been reported in recent years from several parts of the world which stem from environmental exposure to metals In this section authors report their findings on the effects and influence of metals in gene expression and their consequences to human health The section on metal carcinogenesis and metal caused DNA damage presents the latest advances in our knowledge of the molecular mechanisms of metal induced mutagenesis and carcinogenesis This topic is at the very heart of our understanding of how cancer may be caused by various metals

Comprehensive Inorganic Chemistry II ,2013-07-23 Comprehensive Inorganic Chemistry II Nine Volume Set reviews and examines topics of relevance to today s inorganic chemists Covering more interdisciplinary and high impact areas Comprehensive Inorganic Chemistry II includes biological inorganic chemistry solid state chemistry materials chemistry and nanoscience The work is designed to follow on with a different viewpoint and format from our 1973 work Comprehensive Inorganic Chemistry edited by Bailar Emelius Nyholm and Trotman Dickenson which has received over 2 000 citations The new work will also complement other recent Elsevier works in this area Comprehensive Coordination Chemistry and Comprehensive Organometallic Chemistry to form a trio of works covering the whole of modern inorganic chemistry Chapters are designed to provide a valuable long standing scientific resource for both advanced students new to an area and researchers who need further background or answers to a particular problem on the elements their compounds

or applications Chapters are written by teams of leading experts under the guidance of the Volume Editors and the Editors in Chief The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field The chapters will not provide basic data on the elements which is available from many sources and the original work but instead concentrate on applications of the elements and their compounds Provides a comprehensive review which serves to put many advances in perspective and allows the reader to make connections to related fields such as biological inorganic chemistry materials chemistry solid state chemistry and nanoscience Inorganic chemistry is rapidly developing which brings about the need for a reference resource such as this that summarise recent developments and simultaneously provide background information Forms the new definitive source for researchers interested in elements and their applications completely replacing the highly cited first edition which published in 1973

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