

Handbook on **METALLOPROTEINS**



edited by
Ivano Bertini
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Handbook On Metalloproteins Handbook On Metalloproteins

Albrecht Messerschmidt



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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 [Handbook of Metalloproteins](#) Albrecht Messerschmidt, Robert Huber, Thomas Poulos, Karl Wieghardt, 2001 *Handbook of Metalloproteins* Albrecht Messerschmidt, Robert Huber, Thomas Poulos, Karl Wieghardt, 2001-08-16 it is a pleasure just to read this handsome and carefully produced work Angewandte Chemie 2002 the Handbook of Metalloproteins is highly recommended as a resource for bioinorganic chemistry It will have lasting value for researchers in the field The Alchemist Chemweb In recent years the analysis and classification of metalloproteins at the interface between chemistry and biology has accelerated Many developments and initiatives have taken place and this two volume handbook provides a comprehensive yet focussed collection of 105 major metalloproteins Content is presented in both a large format and full colour and covers the most relevant transition metals such as Iron Nickel Copper Cobalt Molybdenum Manganese Tungsten and Vanadium This is the first Handbook of Metalloproteins ever published and is comprised of articles written by renowned experts in the field It draws together contributions from over two hundred internationally renowned researchers that include Douglas Rees and Charles Stout as well as Nobel Prize winner Robert Huber Each contribution is presented in a similar format and shows a ribbon plot of the overall 3D Structure on their first page a representation of the metal active site and numerous other figures and tables underpinning the remarks Comparative information is provided on different proteins and every entry has been extensively referenced to current literature First comprehensive handbook to cover the major metalloproteins Presents structural and functional data in an organised manner Incorporates full colour representation of molecular structures throughout Unifies information from molecular biology enzymology spectroscopy biochemistry chemistry biophysics macromolecular crystallography and structural biology Includes comprehensive sections that cover Functional Class Occurrence Amino Acid Sequence Information Protein Production Purification and Molecular Characterisation Metal Content and Cofactors Activity Test Spectroscopy 3D Structure Functional Aspects *Handbook of metalloproteins. 1 (2001)* Albrecht Messerschmidt, 2001 *Handbook of Metalloproteins, Handbook of Metalloproteins* Albrecht Messerschmidt, 2001 The first two volumes of the Handbook of Metalloproteins published in 2001 focused on a number of metals including iron nickel manganese cobalt copper and vanadium Now we are delighted to present volume three which extends the wealth of knowledge and focuses on proteins found in the redox inactive ions of zinc and calcium Midwest **Handbook of Metalloproteins** , 2004 *Handbook of Metalloproteins* Albrecht Messerschmidt, Robert Huber, Thomas Poulos, Karl Wieghardt, 2001-08-16 it is a pleasure just to read this handsome and

carefully produced work Angewandte Chemie 2002 the Handbook of Metalloproteins is highly recommended as a resource for bioinorganic chemistry It will have lasting value for researchers in the field The Alchemist Chemweb In recent years the analysis and classification of metalloproteins at the interface between chemistry and biology has accelerated Many developments and initiatives have taken place and this two volume handbook provides a comprehensive yet focussed collection of 105 major metalloproteins Content is presented in both a large format and full colour and covers the most relevant transition metals such as Iron Nickel Copper Cobalt Molybdenum Manganese Tungsten and Vanadium This is the first Handbook of Metalloproteins ever published and is comprised of articles written by renowned experts in the field It draws together contributions from over two hundred internationally renowned researchers that include Douglas Rees and Charles Stout as well as Nobel Prize winner Robert Huber Each contribution is presented in a similar format and shows a ribbon plot of the overall 3D Structure on their first page a representation of the metal active site and numerous other figures and tables underpinning the remarks Comparative information is provided on different proteins and every entry has been extensively referenced to current literature First comprehensive handbook to cover the major metalloproteins Presents structural and functional data in an organised manner Incorporates full colour representation of molecular structures throughout Unifies information from molecular biology enzymology spectroscopy biochemistry chemistry biophysics macromolecular crystallography and structural biology Includes comprehensive sections that cover Functional Class Occurrence Amino Acid Sequence Information Protein Production Purification and Molecular Characterisation Metal Content and Cofactors Activity Test Spectroscopy 3D Structure Functional Aspects [Handbook of Metalloproteins, Volumes 4 & 5](#) Albrecht Messerschmidt, 2011-04-25 Highlights the progress made in finding new and exciting metalloproteins 10 years after the original publication of the Handbook of Metalloproteins Volumes 1 2 and following publication of Volume 3 in 2004 comes the latest two volumes Presents detailed descriptions of the most exciting newly discovered metalloproteins including New metalloproteins involved in photosynthesis e g photosystem I and II cytochromes New Copper Metalloproteins involved in the formation of Alzheimer s disease and are leads to new medication New metalloproteins essential in understanding the function of nerves and muscles Researching the structure and function of metalloproteins is one of the biggest challenges in modern biological chemistry and several Nobel Prizes have been awarded to research in the field including to the Co Editor Robert Huber in 1988 Volumes 4 5 help bring together the very latest new and exciting metalloproteins in two volumes to help keep you up to date in this continually expanding field including New metalloproteins involved in photosynthesis Photosynthesis is vital for life on earth Contributions on photosystem I and II as well as on cytochrome b6f which are main components of the oxygenic photosynthetic machinery in plants algae and cyanobacteria unravel the role of metals and metal cofactors in this fascinating fundamental process New Copper Metalloproteins The role of copper in connection with the amyloid precursor protein for Alzheimer s disease New metalloproteins essential in understanding the function of nerves and

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discovered and exciting metalloproteins since publication of HMET in 2006 These new additional volumes will provide essential reading to all experienced researchers in bioinorganic chemistry and should give the newcomer a good entry into the field in the following areas Metalloproteins Proteomics Coordination Chemistry Bioinorganic Chemistry Biochemistry Drug Development Enzymology **Handbook of Metalloproteins** Albrecht Messerschmidt, 2011-05-31 Researching the structure and function of metalloproteins is one of the biggest challenges in modern biological chemistry and several Nobel Prizes have been awarded to research in the field including to the Co Editor Robert Huber in 1988 This 5 Volume Set gives a representative presentation of the key enzymes Metalloproteins and reflect the success of the current ongoing research and includes coverage of 234 Metalloproteins The set comprises of Volumes 1 2 published in 2001 Volume 3 published in 2004 and Volumes 4 5 published in February 2011 Praise for this publication includes It is a pleasure just to read this handsome and carefully produced work From volumes 1 2 Angewandte Chemie vol 41 2002 it is a pleasure to use this excellent authoritative and valuable text I regard this work as essential for library purchase Natural Products Report Vol 19 No 4 2002 highly recommended as a resource for bioinorganic chemistry It will have lasting value for researchers in the field The Alchemist Chemweb 2002 Also available online via <http://onlinelibrary.wiley.com/book/10.1002/0470028637>

Biological Inorganic Chemistry Ivano Bertini, 2007 Part A Overviews of biological inorganic chemistry 1 Bioinorganic chemistry and the biogeochemical cycles 2 Metal ions and proteins binding stability and folding 3 Special cofactors and metal clusters 4 Transport and storage of metal ions in biology 5 Biominerals and biomineralization 6 Metals in medicine Part B Metal ion containing biological systems 1 Metal ion transport and storage 2 Hydrolytic chemistry 3 Electron transfer respiration and photosynthesis 4 Oxygen metabolism 5 Hydrogen carbon and sulfur metabolism 6 Metalloenzymes with radical intermediates 7 Metal ion receptors and signaling Cell biology biochemistry and evolution Tutorial I Fundamentals of coordination chemistry Tutorial II **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 **Nuclear Magnetic Resonance** G. A. Webb, 2007 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an invaluable source of current methods and applications Each volume of

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Metalloprotein Active Site Assembly Michael K. Johnson, Robert A. Scott, 2017-08-30 Summarizes the essential biosynthetic pathways for assembly of metal cofactor sites in functional metalloproteins Metalloprotein Active Site Assembly focuses on the processes that have evolved to orchestrate the assembly of metal cofactor sites in functional metalloproteins It goes beyond the simple incorporation of single metal ions in a protein framework and includes metal cluster assembly metal cofactor biosynthesis and insertion and metal based post translational modifications of the protein environments that are necessary for function Several examples of each of these areas have now been identified and studied the current volume provides the current state of the art understanding of the processes involved An excellent companion to the earlier book in this series Metals in Cells which discussed both the positive and negative effects of cellular interactions with metals this comprehensive book provides a diverse sampling of what is known about metalloprotein active site assembly processes It covers all major biological transition metal components Mn Fe Co Ni Mo as well as the other inorganic components metal binding organic cofactors e g heme siroheme cobalamin molybdopterin and post translationally modified metal binding sites that make up the patchwork of evolved biological catalytic sites The book compares and contrasts the biosynthetic assembly of active sites involving all biological metals This has never been done before since it is a relatively new fast developing area of research Metalloprotein Active Site Assembly is an ideal text for practitioners of inorganic biochemistry who are studying the biosynthetic pathways and gene clusters involved in active site assembly and for inorganic chemists who want to apply the concepts learned to potential synthetic pathways to active site mimics Handbook of Biochemical Kinetics Daniel L. Purich, R. Donald Allison, 1999-10-26 Biochemical kinetics refers to the rate at which a reaction takes place Kinetic mechanisms have played a major role in defining the metabolic pathways the mechanistic action of enzymes and even the processing of genetic material The Handbook of Biochemical Kinetics provides the underlying scaffolding of logic for kinetic approaches to distinguish rival models or mechanisms The handbook also comments on techniques and their likely limitations and pitfalls as well as derivations of fundamental rate equations that characterize biochemical processes Key Features Over

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Kenneth D. Karlin, 2005-06-14 The cutting edge of scientific reporting PROGRESS in Inorganic Chemistry Nowhere is creative scientific talent busier than in the world of inorganic chemistry experimentation Progress in Inorganic Chemistry continues in its tradition of being the most respected avenue for exchanging innovative research This series provides inorganic chemists and materials scientists with a forum for critical authoritative evaluations of advances in every area of the discipline With contributions from internationally renowned chemists this latest volume offers an in depth far ranging examination of the changing face of the field providing a tantalizing glimpse of the emerging state of the science This series is distinguished not only by its scope and breadth but also by the depth and quality of the reviews Journal of the American Chemical Society This series has won a deservedly honored place on the bookshelf of the chemist attempting to keep afloat in the torrent of original papers on inorganic chemistry Chemistry in Britain CONTENTS OF VOLUME 54 Atomlike Building Units of Adjustable Character Solid State and Solution Routes to Manipulating Hexanuclear Transition Metal Chalcogenide Clusters Eric J Welch and Jeffrey R Long Doped Semiconductor Nanocrystals Synthesis Characterization Physical Properties and Applications J Daniel Bryan and Daniel R Gamelin Stereochemical Aspects of Metal Xanthene Complexes Molecular Structures and Supramolecular Self Assembly Edward R T Tiekink and Ionel Haiduc Trivalent Uranium A Versatile Species for Molecular Activation Ilia Korobkov and Sandro Gambarotta Comparison of the Chemical Biology of NO and HNO An Inorganic Perspective Katrina M Miranda and David A Wink Alterations of Nucleobase pKa Values upon Metal Coordination Origins and Consequences Bernhard Lippert Functionalization of Myoglobin Yoshihito Watanabe and Takashi Hayashi

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 chemistry

Handbook of Elemental Speciation II Joseph A. Caruso, Helen Crews, Klaus G. Heumann, 2005-06-17 Written by an internationally recognized group of editors and contributors Handbook of Elemental Speciation Volume 2 provides a comprehensive cross disciplinary presentation of the analytical techniques involved in speciation Comprehensive coverage of key elements and compounds in situ Addresses the analysis and impact of these elements and compounds e g arsenic lead copper iron halogens

etc in food the environment clinical and occupational health Detailed methodology and data are reported as well as regulatory limits Includes general introduction on the impact in these key areas **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 Electron Paramagnetic Resonance Bruce C Gilbert, M J Davies, Damien M Murphy, 2007-10-31 Electron Paramagnetic Resonance EPR Volume 18 highlights major developments in this area reported in 2001 and 2002 with results being set into the context of earlier work and presented as a set of critical yet coherent overviews The topics covered describe contrasting types of application ranging from biological areas such as EPR studies of free radical reactions in biology and medically related systems to experimental developments and applications involving EPR imaging the use of very high fields and time resolved methods Critical and up to the minute reviews of advances involving the design of spin traps advances in spin labelling paramagnetic centres on solid surfaces exchange coupled oligomers metalloproteins and radicals in flavoenzymes are also included As EPR continues to find new applications in virtually all areas of modern science including physics chemistry biology and materials science this series caters not only for experts in the field but also those wishing to gain a general overview of EPR applications in a given area

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