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DNA Interactions

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Topics in Biological Inorganic Chemistry



Springer

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Nick Hadjiliadis, Einar Sletten



Metallopharmaceuticals I:

Metallopharmaceuticals I Michael J. Clarke, Peter J. Sadler, 2013-03-14 Biological inorganic chemistry is a field of research at the interface of inorganic and biological chemistry. The rapidly developing insights into the role of metals in biological systems has far reaching implications not only for biological science but also for related disciplines ranging from molecular medicine to the environment. In each volume the reader whether engaged in chemistry, biochemistry, biology or molecular medicine receives a comprehensive summary and critical overview of a topic of high current interest written by leading international experts.

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 Complex - DNA Interactions Nick Hadjiladis, Einar Sletten, 2009-03-30 Metal ions and metal complexes have long been recognized as critically important components of nucleic acid chemistry both in regulation of gene expression and as promising therapeutic agents. Understanding how metal complexes interact with DNA has become an active research area at the interface between chemistry, molecular biology and medicine. Metal Complex DNA Interactions provides a comprehensive overview of this increasingly diverse field presenting recent developments and the latest research with particular emphasis on metal based drugs and metal ion toxicity. The text is divided into four parts. Basic Structural and Kinetic Aspects includes chapters on sequence selective metal binding to DNA and thermodynamic models. Medical Applications focuses on anticancer platinum drugs including discussions on DNA repair in antitumor effects of platinum drugs and photodynamic therapy. DNA Recognition, Nucleases and Sensor describes probes for DNA recognition, artificial restriction agents, metallo-DNAzymes for metal sensing applications and metal ion dependent catalysis in nucleic acid enzymes. Toxicological Aspects deals with structural studies of mercury DNA interactions, chromium induced DNA damage and repair and the effect of arsenic and nickel on DNA integrity. This book will be a valuable resource for academic researchers and professionals from a range of pharmaceutical and chemical industries particularly those involved in the development of new and less toxic anticancer metallo drugs and in the field of environmental and toxicological chemistry.

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

Medicinal Applications of Coordination

Chemistry Chris J Jones, John R Thornback, 2007-10-31 Metals in pharmaceuticals have played an increasingly important role in medicine over the last century particularly in cancer therapy and diagnostic imaging methods Medicinal Applications of Coordination Chemistry focuses on the role that transition metals play in clinical applications Medicinal Applications of Coordination Chemistry begins with a brief historical review and an introduction to the chemistry of d and f block metals Subsequent sections discuss metallodrugs for a number of different applications the design of new drugs and the relationship between structure and function Key sections include diagnostic applications of metal compounds in anatomical and functional imaging and therapeutic applications of metals compounds This book is ideal for researchers in academia and industry and comes complete with examples of real life applications

Ligand Design in Medicinal Inorganic Chemistry Tim Storr, 2014-06-12 Increasing the potency of therapeutic compounds while limiting side effects is a common goal in medicinal chemistry Ligands that effectively bind metal ions and also include specific features to enhance targeting reporting and overall efficacy are driving innovation in areas of disease diagnosis and therapy Ligand Design in Medicinal Inorganic Chemistry presents the state of the art in ligand design for medicinal inorganic chemistry applications Each individual chapter describes and explores the application of compounds that either target a disease site or are activated by a disease specific biological process Ligand design is discussed in the following areas Platinum Ruthenium and Gold containing anticancer agents Emissive metal based optical probes Metal based antimalarial agents Metal overload disorders Modulation of metal protein interactions in neurodegenerative diseases Photoactivatable metal complexes and their use in biology and medicine Radiodiagnostic agents and Magnetic Resonance Imaging MRI agents Carbohydrate containing ligands and Schiff base ligands in Medicinal Inorganic Chemistry Metalloprotein inhibitors Ligand Design in Medicinal Inorganic Chemistry provides graduate students industrial chemists and academic researchers with a launching pad for new research in medicinal chemistry

Comprehensive Coordination Chemistry II J. A. McCleverty, T.J. Meyer, 2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest

Small Molecule DNA and RNA Binders Martine Demeunynck, Christian Bailly, W. David Wilson, 2006-03-06 The development of molecules that selectively bind to nucleic acids has provided many details about DNA and RNA recognition The range of such substances such as metal complexes peptides oligonucleotides and a wide array of

synthetic organic compounds is as manifold as the functions of nucleic acids Nucleic acid recognition sequences are often found in the major or minor groove of a double strand while other typical interactions include intercalation between base pairs or the formation of triple or quadruple helices One example of a binding mode that has recently been proposed is end stacking on such complex structures as the telomere tetraplex In this comprehensive book internationally recognized experts describe in detail the important aspects of nucleic acid binding and in so doing present impressive approaches to drug design Since typical substances may be created naturally or synthetically emphasis is placed on natural products chemical synthesis the use of combinatorial libraries and structural characterization The whole is rounded off by contributions on molecular modeling as well as investigations into the way in which any given drug interacts with its nucleic acid recognition site

Ruthenium Chemistry Ajay Kumar Mishra, Lallan Mishra, 2018-01-17 This book will describe Ruthenium complexes as chemotherapeutic agent specifically at tumor site It has been the most challenging task in the area of cancer therapy Nanoparticles are now emerging as the most effective alternative to traditional chemotherapeutic approach Nanoparticles have been shown to be useful in this respect However in view of organ system complications instead of using nanoparticles as a delivery tool it will be more appropriate to synthesize a drug of nanoparticle size that can use blood transport mechanism to reach the tumor site and regress cancer Due to less toxicity and effective bio distribution ruthenium Ru complexes are of much current interest Additionally luminescent Ru complexes can be synthesized in nanoparticle size and can be directly traced at tissue level The book will contain the synthesis characterization and applications of various Ruthenium complexes as chemotherapeutic agents The book will also cover the introduction to chemotherapy classification of Ru complexes with respect to their oxidation states and geometry Ruthenium complexes of nano size shape and binding selectivity binding of ruthenium complexes with DNA DNA cleavage studies and cytotoxicity The present book will be more beneficial to researchers scientists and biomedical Current book will empower specially to younger generation to create a new world of ruthenium chemistry in material science as well as in medicines This book will be also beneficial to national international research laboratories and academia with interest in the area of coordination chemistry more especially to the Ruthenium compounds and its applications

Ruthenium Complexes Alvin A. Holder, Lothar Lilge, Wesley R. Browne, Mark A.W. Lawrence, Jimmie L. Bullock, Jr., 2017-11-01 Edited by a team of highly respected researchers combining their expertise in chemistry physics and medicine this book focuses on the use of ruthenium-containing complexes in artificial photosynthesis and medicine Following a brief introduction to the basic coordination chemistry of ruthenium complexes and their synthesis in section one as well as their photophysical and photochemical properties the authors discuss in detail the major concepts of artificial photosynthesis and mechanisms of hydrogen production and water oxidation with ruthenium in section two The third section of the text covers biological properties and important medical applications of ruthenium complexes as therapeutic agents or in diagnostic imaging Aimed at stimulating research in this active field this is an invaluable information

source for researchers in academia health research institutes and governmental departments working in the field of organometallic chemistry green and sustainable chemistry as well as medicine drug discovery while equally serving as a useful reference also for scientists in industry

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