

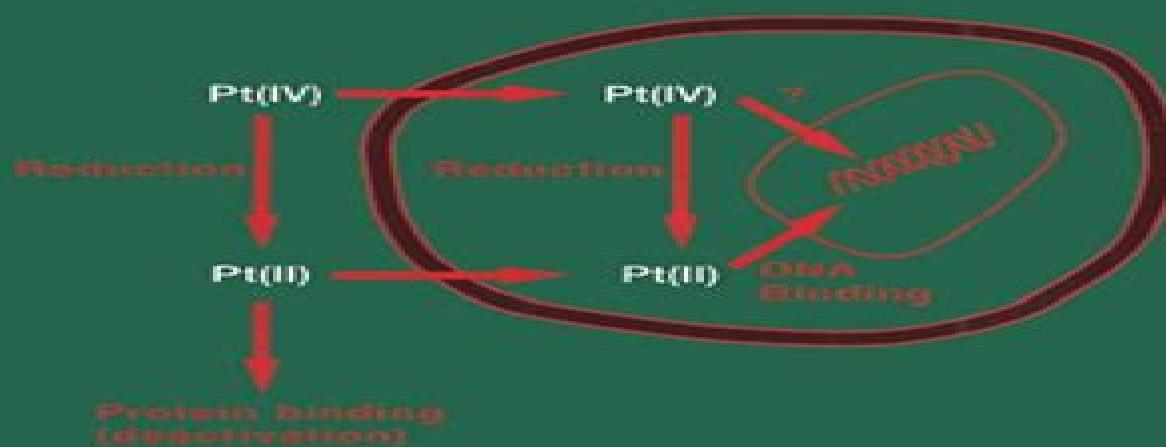
metal ions in biological systems

volume 42

*metal complexes in tumor diagnosis
and as anticancer agents*

edited by

**Astrid Sigel
and Helmut Sigel**



Metal Complexes In Tumor Diagnosis And As Anticancer Agents

Helmut Sigel,Astrid Sigel

Metal Complexes In Tumor Diagnosis And As Anticancer Agents:

Metal Complexes in Tumor Diagnosis and as Anticancer Agents Astrid Sigel, Helmut Sigel, 2004 **Metal Complexes in Tumor Diagnosis and as Anticancer Agents** Astrid Sigel, Helmut Sigel, 2004 Publisher supplied data Offering an authoritative and timely account by twenty nine internationally recognized experts Metal Ions in Biological Systems Metal Complexes in Tumor Diagnosis and as Anticancer Agents is devoted solely to the vital research area concerning metal complexes in cancer diagnosis and therapy In fourteen stimulating chapters the book focuses on diagnostic tools such as magnetic resonance imaging MRI luminescent probes and radiopharmaceuticals including radiometal labeled peptides and assesses the role of metal ions especially iron in the action of antibiotics employed in anticancer chemotherapy **Metal Ions in Biological Systems: Metal complexes in tumor diagnosis and as anticancer agents** Helmut Sigel, Astrid Sigel, 1973

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 **Frontiers in Anti-Cancer Drug Discovery: Volume 1** Atta-ur-Rahman, M. Iqbal Choudhary, 2010-12-31 Frontiers in Anti Cancer Drug Discovery is an Ebook series devoted to publishing the latest and the most important advances in Anti Cancer drug design and discovery Eminent scientists write contributions on all areas of rational drug design and drug di **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 **Medicinal Organometallic Chemistry** Gérard Jaouen,Nils

Metzler-Nolte,2010-09-14 Contents G rard Jaouen Nils Metzler Nolte Introduction St phane GIBAUD and G rard JAOUEN Arsenic based drugs from Fowler s solution to modern anticancer chemotherapy Ana M Pizarro Abraha Habtemariam and Peter J Sadler Activation Mechanisms for Organometallic Anticancer Complexes Angela Casini Christian G Hartinger Alexey A Nazarov Paul J Dyson Organometallic antitumour agents with alternative modes of action Elizabeth A Hillard Anne Vessieres Gerard Jaouen Ferrocene functionalized endocrine modulators for the treatment of cancer Megan Hogan and Matthias Tacke Titanocenes Cytotoxic and Anti Angiogenic Chemotherapy Against Advanced Renal Cell Cancer Seann P Mulcahy and Eric Meggers Organometallics as Structural Scaffolds for Enzyme Inhibitor Design Christophe Biot and Daniel Dive Bioorganometallic Chemistry and Malaria Nils Metzler Nolte Biomedical applications of organometal peptide conjugates Roger Alberto Organometallic Radiopharmaceuticals Brian E Mann Carbon Monoxide an essential signaling molecule

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

Biological Inorganic Chemistry Ivano Bertini,Harry B. Gray,Edward Stiefel,Joan Valentine,2007-01-01 Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The long awaited text for 21st century courses in biological inorganic chemistry is now available Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The book has been extensively class tested at Princeton and UCLA and it includes tutorials in biology and biochemistry and in inorganic chemistry to aid students of varying backgrounds The main text is divided into two parts Part A Overviews of Biological Inorganic Chemistry sets forth the unifying principles of the field A full course in bioinorganic chemistry could be based entirely on this overview section which is a really a book within a book Part B Metal Ion Containing Biological Systems describes specific classes of systems in detail A special feature is the strong connection to the genomic revolution that has dramatically enhanced our ability to define the function of gene products in living organisms Throughout the book protein data bank codes are given for structures discussed in the text and students are encouraged to learn to use the PDB in their courses and research This exciting new book will be a must read for years to come for all students and researchers interested in the field of biological

inorganic chemistry **Biological Chemistry of Arsenic, Antimony and Bismuth** Hongzhe Sun,2010-12-10 Arsenic antimony and bismuth three related elements of group 15 are all found in trace quantities in nature and have interesting biological properties and uses While arsenic is most well known as a poison and indeed the contamination of groundwater by arsenic is becoming a major health problem in Asia it also has uses for the treatment of blood cancer and has long been used in traditional chinese medicine Antimony and bismuth compounds are used in the clinic for the treatment of parasitic and bacterial infections Biological Chemistry of Arsenic Antimony and Bismuth is an essential overview of the biological chemistry of these three elements with contributions from an international panel of experts Topics covered include chemistry of As Sb and Bi biological chemistry of arsenic biological chemistry of Sb and Bi arsenic and antimony speciation in environmental and biological samples arsenic in traditional chinese medicine arsenic in aquifers biomethylation of As Sb and Bi uptake of metalloids by cells bismuth complexes of porphyrins and their potential in medical applications Helicobacter pylori and bismuth metabolism of arsenic trioxide in blood of the acute promyelocytic leukemia patients anticancer properties of As Sb and Bi radio Bi in cancer therapy genotoxicity of As Sb and Bi metallomics as a new technique for As Sb and Bi metalloproteomics for As Sb and Bi Biological Chemistry of Arsenic Antimony and Bismuth conveys the essential aspects of the bioinorganic chemistry of these three elements making this book a valuable complement to more general bioinorganic chemistry texts and more specialized topical reviews It will find a place on the bookshelves of practitioners researchers and students working in bioinorganic chemistry and medicinal chemistry *Metal Complexes: Environmental and Biomedical Applications* Rojalin Sahu,Puspanjali Sahu,2024-11-20 Metal Complexes Environmental and Biomedical Applications offers a comprehensive exploration of the role of metal complexes in diverse fields including biomedicine energy and environmental protection This book provides insights into the synthesis properties and applications of metal complexes covering topics such as their use in therapeutics diagnostics energy materials and catalysis It also examines their antibacterial antifungal and sensor applications With a systematic approach the book is ideal for students researchers and professionals interested in the growing relevance of metal complexes in scientific and industrial applications Key Features Overview of metal complexes and oxidation states Synthesis of metal complexes from N heterocyclic carbene and Schiff base ligands Biomedical applications including therapeutics and diagnostics Use of metal complexes in energy storage and catalysis Applications in antibacterial and antifungal treatments Metal complexes as sensors and in analytical chemistry

Drug Delivery in Oncology Felix Kratz,Peter Senter,Henning Steinhagen,2013-09-30 In this first authoritative overview on modern cancer chemotherapy 121 international specialists have contributed their experience and recent data for what is likely to become the gold standard in the field The authors summarize knowledge gained over the past decade from basic concepts to successful applications in the clinic covering active and passive targeting strategies as well as tissue specific approaches All current and future targeted delivery systems are discussed from ligand based to antibody based polymer

based systems right up to micro and nanoparticulate systems A special section covers the delivery of nucleic acid therapeutics such as siRNA miRNA and antisense nucleotides In each case a description of the basic technique is followed by a discussion of the latest preclinical and clinical developments in the field By virtue of its clear and didactic structure rich illustrative material and summary chapters this handbook and ready reference enables the efficient transfer of knowledge between different disciplines from basic research to the clinician and vice versa It is equally well suited for professionals researchers and students in medical oncology and cancer biology and is also excellent for teaching medical students the foundations of 21st century cancer chemotherapy Ruthenium and Other Non-Platinum Metal Complexes in Cancer Chemotherapy Etienne Baulieu,Donald T. Forman,Magnus Ingelman-Sundberg,Lothar Jaenicke,John A. Kellen,Yashitaka Nagai,Georg F. Springer,Lothar Träger,Liane Will-Shahab,James L. Wittliff,2013-03-07 With contributions by numerous experts *Targeted Cancer Therapies, From Small Molecules to Antibodies* Zhe-Sheng Chen,Jian-ye Zhang,Yunkai Zhang,Yan-yan Yan,2020-07-22 Frontiers in Anti-Cancer Drug Discovery Atta-ur Rahman,M. Iqbal Choudhary,2017-07-06 Frontiers in Anti Cancer Drug Discovery is a book series devoted to publishing the latest and the most important advances in anti cancer drug design and discovery Eminent scientists write contributions on all areas of rational drug design and drug discovery including medicinal chemistry in silico drug design combinatorial chemistry high throughput screening drug targets recent important patents and structure activity relationships The book series should prove to be of interest to all pharmaceutical scientists involved in research in anti cancer drug design and discovery Each volume is devoted to the major advances in anti cancer drug design and discovery The book series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field The eighth volume of the series features chapters covering the following topics T cells in gastrointestinal cancers The pharmacology of adjudin a male contraceptive with anti cancer properties Manipulating the tumor microenvironment Treatment of hepatocellular carcinoma Gold based compounds as potential anti cancer drug candidates Oral nanostructure drug delivery for anti cancer treatment

Metal Ions in Biological Systems Helmut Sigel,Astrid Sigel,1993-01-19 This volume is devoted to the research area regarding the biological properties of metal alkyl derivatives offering an authoritative account of this subject by 16 scientists In 11 chapters Biological Properties of Metal Alkyl Derivatives highlights in detail derivatives of germanium tin lead arsenic antimony selenium tellurium cobalt vitamin B12 derivatives and nickel coenzyme F430 including the role of mainly micro organisms in their formation The derivatives of indium thallium bismuth various transition metals and mercury are also covered to some extent as are those of the non metals silicon phosphorus and sulfur and the haloperoxidase route of the biogenesis of halomethanes by fungi and plants The properties of these alkyl derivatives their biosynthesis including mechanistic aspects their appearance in waters rivers lakes oceans and sediments and their physiological and toxic effects are summarized *Metal, Metal Oxides and Metal Sulphides for Biomedical Applications* Saravanan Rajendran,Mu.

Naushad,D. Durgalakshmi,Eric Lichtfouse,2021-01-25 This book presents recent advances in inorganic nanomaterials for healthcare with focus on the synthesis medical applications and toxicity of metals metal oxides and metal sulfides Major applications include diagnosis bioimaging biosensing healing and therapy in cancer diabetes cardiovascular diseases obesity metabolic syndrome dentistry and antimicrobials [Subject Index of Extramural Research Administered by the National Cancer Institute](#) ,1979 Current information about research grants and contracts supported by the National Cancer Institute Subject listing gives contract or grant number and topic Investigator grant number and contract number indexes **Metal Complex - DNA Interactions** Nick Hadjiliadis,Einar Sletten,2009-03-30 Metal ions and metal complexes have long been recognized ascritically important components of nucleic acid chemistry both inregulation of gene expression and as promising therapeutic agents Understanding how metal complexes interact with DNA has become anactive research area at the interface between chemistry molecularbiology and medicine Metal Complex DNA Interactions provides a comprehensiveoverview of this increasingly diverse field presenting recentdevelopments and the latest research with particular emphasis onmetal based drugs and metal ion toxicity The text is divided intofour parts Basic Structural and Kinetic Aspects includes chapterson sequence selective metal binding to DNA and thermodynamicmodels Medical Applications focuses on anticancer platinumdrugs including discussions on DNA repair in antitumor effects ofplatinum drugs and photo dynamic therapy DNA Recognition Nucleases and Sensor describesprobes for DNA recognition artificial restriction agents metallo DNAzymes for metal sensing applications and metal iondependent catalysis in nucleic acid enzymes Toxicological Aspects deals with structural studies ofmercury DNA interactions chromium induced DNA damage andrepair and the effect of arsenic and nickel on DNAintegrity This book will be a valuable resource for academic researchersand professionals from a range of pharmaceutical and chemicalindustries particularly those involved in the development of newand less toxic anticancer metallo drugs and in the field ofenvironmental and toxicological chemistry **Subject Index of Current Extramural Research Administered by the National Cancer Institute** ,1978

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