



**Metals in Health and Disease Series**

# **METAL COMPOUNDS IN CANCER THERAPY**

**Edited by  
Simon P. Fricker**



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# Metal Compounds In Cancer Therapy

**Felix Kratz, Peter Senter, Henning  
Steinhagen**



## **Metal Compounds In Cancer Therapy:**

*Metal Compounds in Cancer Therapy* S.P. Fricker, 2012-12-06 The discovery of the antitumour activity of cisplatin in 1965 and its subsequent introduction into clinical trials in 1971 was the catalyst for a major international research effort investigating the potential of metal compounds in cancer therapy Cisplatin now occupies an important place in the armamentarium of the oncologist due to its effectiveness in the treatment of testicular cancer A second generation analogue carbo platin offers reduced toxicity together with therapeutic activity which gives it a place in the front line therapy of genitourinary cancers These and other successes have encouraged the search for novel metal based drugs for cancer therapy Research has shown that metal compounds have potential for activity not only as cytotoxic antitumour agents but also in areas such as adjuvant therapy diagnosis and immunotherapy The aim of this book is to review and describe the major achievements and developments arising from this international research effort The contributing authors come from laboratories throughout Europe and America and represent the many disciplines characteristic of this research such as clinical research pharmacology tumour biology and inorganic medicinal chemistry

*Metal Compounds in Cancer Therapy* S P Fricker, 1994-11-30 The discovery of the anti tumour activity of cisplatin in 1965 and its subsequent introduction into clinical trials in 1971 was the catalyst for a major research effort into the potential of metal compounds in cancer therapy This book draws together information on all metals involved in cancer therapy including those used in radioisotopes Throughout an interdisciplinary approach has been taken to reflect the nature of this research This book will provide an invaluable reference source for anyone interested in the role of metals in oncotherapy

**Platinum and Other Heavy Metal Compounds in Cancer Chemotherapy** Andrea Bonetti, Roberto Leone, Franco Muggia, Stephen B. Howell, 2009-01-09 Cisplatin the first member of the family of platinum containing chemotherapeutic agents was discovered by Barnett Rosenberg in 1965 and approved by the FDA for marketing in 1978 After 30 years of use in the clinic cisplatin remains a central element of many treatment regimens Cisplatin is still an irreplaceable component of a regimen that produces high cure rates in even advanced nonseminomatous germ cell cancers and is widely used in the treatment of ovarian cancers and other gynecologic cancers head and neck and numerous other tumor types The development of carboplatin has reduced some of the adverse events associated with cisplatin treatment and the introduction of the DACH platinum compound oxaliplatin has broadened the spectrum of activity of the platinum compounds to include gastro intestinal cancers especially colorectal cancer The clinical importance of this family of drugs continues to drive investigation into how these drugs work and how to improve their efficacy and reduce their toxicity The papers in this volume were presented in Verona Italy during the tenth International Symposium on Platinum Coordination Compounds in Cancer Chemotherapy The symposium was jointly organized by the Department of Oncology of the Mater Salutaris Hospital Azienda Sanitaria Locale 21 of the Veneto Region and by the Department of Medicine and Public Health Section of Pharmacology the University of Verona They reflect the vitality of this field and the increasing

use of new molecular and cell biologic genetic and biochemical tools to identify approaches to further improve their use

**New Precious Metal Compounds in Cancer Therapy** Dean Douglas Peters, 2008      **Gold and its Complexes in Anticancer Chemotherapy** Mohammad Younus Wani, Manzoor Ahmad Malik, 2021-02-11 This book presents an overview of cancer and the genesis and development of different treatment strategies and modalities against cancer. The emergence of gold and its complexes as promising anticancer chemotherapeutic agents have the potential to substitute or replace the platinum based chemotherapeutic agents. Gold complexes have demonstrated considerable anti proliferative properties chiefly attributed to their anti mitochondrial effects. They make gold complexes excellent candidates as anti cancer agents compared to their platinum based counterparts. This book provides a critical review of recent advances made in the development of gold complexes as anti cancer agents. In this context it examines a number of different ligand architectures, provides comprehensive information on gold complexes mechanism of action and toxicity issues and in closing outlines future research directions.

*Natural Compounds in Cancer Therapy* John Boik, 2001 *Natural Compounds in Cancer Therapy* is a classic reference work for patients and medical professionals interested in use of nontoxic botanical compounds in the treatment of cancer. It offers a snapshot of the field circa 2001 and its insights are still pertinent today. *Natural Compounds in Cancer Therapy* is among the first books to discuss the use of natural products against cancer from a systems biology perspective.

**Biomaterials for Precision Cancer Medicine** Saeid Kargozar, Masoud Mozafari, 2024-10-04 *Biomaterials for Precision Cancer Medicine* bridges the gap between materials science and medicine providing insights into novel biomaterial based treatments for cancer. The book describes the various smart biomaterial based treatments available reviewing how they can be designed to target specific tumor types adapt to changes in the cell microenvironment and offer smart personalized therapy for different cancer variants especially those which are drug resistant. The book provides a materials focused look at precision cancer medicine and is thus useful to materials scientists biomedical engineers and biomedical scientists including cancer and genetic specialists with an interest in alternative cancer therapies. Reviews the state of the art in precision and translational medicine setting the scene for the introduction of alternative biomaterial based therapies. Covers a range of biomaterials for personalized cancer treatment including polymer protein conjugates smart nanoparticles metal compounds and more. Addresses preclinical assessment health risks challenges and future perspective of precision anti cancer biomaterials.

**Cancer Treatment** Leticia Rangel, 2013-05-09 *Cancer Treatment Conventional and Innovative Approaches* is an attempt to integrate into a book volume the various aspects of cancer treatment compiling comprehensive reviews written by an international team of experts in the field. The volume is presented in six sections: i Section 1 Cancer treatment Conventional and innovative pharmacological approaches ii Section 2 Combinatorial strategies to fight cancer Surgery radiotherapy backytherapy chemotherapy and hyperthermia iii Section 3 The immunotherapy of cancer iv Section 4 Multidisciplinary in cancer therapy nutrition and beyond v Section 5 Supportive care for cancer patients vi

Section 6 Perspectives in cancer biology and modeling Ultimately we hope this book can enlighten important issues involved in the management of cancer summarizing the state of the art knowledge regarding the disease control and treatment thus providing means to improve the overall care of patients that daily battle against this potentially lethal condition

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      *Medicinal Applications of Coordination Chemistry* Chris J. Jones, John Thornback, 2007 This product is not available separately it is only sold as part of a set There are 750 products in the set and these are all sold as one entity This product is not available separately it is only sold as part of a set There are 750 products in the set and these are all sold as one entity      **Nanoparticles in Cancer Theranostics** Prudhvi Lal Bhukya, Neelam Thakur, 2024-10-07 This book comprehensively reviews the application of nanoparticles in cancer diagnosis and treatment The introductory section provides a fundamental understanding of cancer biology its global incidence and prevalence and the intricate nano bio interactions at the cellular level The subsequent section discusses the pivotal role of nanoparticles in precise cancer detection enhancing cancer imaging and serving as contrast agents for accurate diagnosis It also presents cutting edge nanotechnology based methods for detecting HTLV 1 retroviruses The following section covers the utilization of lipid based nanoparticles monoclonal antibodies and advanced nanotherapeutics for targeted cancer treatments This book is a useful resource for researchers clinicians and students in the fields of oncology and nanotechnology      Biomedical Applications of Metals Mahendra Rai, Avinash P. Ingle, Serenella Medici, 2018-02-24

Focused more specifically on the recent advances in applications of various metals and their complexes used in biomedicine particularly in the diagnosis and treatment of chronic diseases The editors give equal importance to other key aspects such as toxicological issues and safety concerns The application of metals in the biomedical field is highly interdisciplinary and has a broad appeal across all biomedical specialties Biomedical Applications of Metals is particularly focused on covering the role of metals in medicine and the development of novel therapeutic products and solutions in the form of alternative medicines and some topics on Indian traditional medicine i e Ayurveda In Section I the book discusses the role of metals in medicines and include chapters on nanoparticles noble metals medical devices copper selenium silver and microbial pathogens while Section II includes topics on metals toxicity including heavy metals carcinogens cancer therapy Bhasma s and chelating agents used in Ayurveda and biochemical and molecular targets including actions of metals These new and emerging concepts of applications of metals in medicine their crucial role in management of microbial resistance and their use in the treatment of various chronic diseases is essential information for toxicologists and clinical and biomedical researchers

**Frontiers in Anti-Cancer Drug Discovery** Atta-ur-Rahman,M. Iqbal Choudhary,2014-09-15 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 discovery including medicinal chemistry in silico drug design combinatorial chemistry high throughput screening drug targets recent important patents and structure activity relationships The Ebook 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 Ebook series is essential reading for all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field

**Principles and Methods of Toxicology, Fifth Edition** A. Wallace Hayes,2007-09-25 Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity the determination of safe dosage forms the base and focus of modern toxicology In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information a solid understanding of the underlying principles is essential Extensively revised and updated with four new chapters and an expanded glossary this fifth edition of the classic text Principles and Methods of Toxicology provides comprehensive coverage in a manageable and accessible format New topics include toxicoponomics plant and animal poisons information resources and non animal testing alternatives Emphasizing the cornerstones of toxicology people differ dose matters and things change the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles agents that cause toxicity target organ toxicity and toxicological testing methods including many of the test protocols required to meet regulatory needs

worldwide The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each The addition of several new authors allow for a broader and more diverse treatment of the ever changing and expanding field of toxicology Maintaining the high quality information and organizational framework that made the previous editions so successful Principles and Methods of Toxicology Fifth Edition continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology Inorganic Chemistry J. E. House, 2012-10-30 This textbook provides essential information for students of inorganic chemistry or for chemists pursuing self study The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly Inorganic Chemistry 2E is divided into five major themes structure condensed phases solution chemistry main group and coordination compounds with several chapters in each There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures to behavior of solids etc The author emphasizes fundamental principles including molecular structure acid base chemistry coordination chemistry ligand field theory and solid state chemistry and presents topics in a clear concise manner There is a reinforcement of basic principles throughout the book For example the hard soft interaction principle is used to explain hydrogen bond strengths strengths of acids and bases stability of coordination compounds etc The book contains a balance of topics in theoretical and descriptive chemistry New to this Edition New and improved illustrations including symmetry and 3D molecular orbital representations Expanded coverage of spectroscopy instrumental techniques organometallic and bio inorganic chemistry More in text worked out examples to encourage active learning and to prepare students for their exams Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets **Cancer Therapy** Trinh Pham, 2013 *Emerging Roles of Nanocarrier in Cancer Therapy* Rishabha Malviya, Arun Kumar Singh, Sonali Sundram, 2024-09-05 This book addresses the limitations of existing therapeutic approaches using nanoparticles Emerging Roles of Nanocarriers in Cancer Therapy will further provide information for the development of successful cancer nanomedicine therapies Features Explains different types of nanoparticles targeting mechanisms and approved nanotherapeutics for oncological implications in cancer treatment Covers in detail the characteristics of various nanotechnology based drug delivery systems Discusses passive and active cellular targeting ligand based targeting of nanoparticles and strategies to improve nanoparticle cellular membrane interaction Presents the application of nanotherapeutics current challenges and prospects and describes the path of future research Highlights smart strategies for improving the clinical impact of cancer nanomedicine The text is primarily written for graduate students and academic researchers in the fields of biotechnology nanotechnology drug delivery pharmaceutical science and pharmacology

**Colorectal Cancer** Bhupendra G. Prajapati, Anil K. Philip, Sankha Bhattacharya, 2023-11-19 Colorectal Cancer Disease and Advanced Drug Delivery Strategies examines the combined impact of basic clinical and medical treatments as well as recent advances in the field of colorectal cancer. With a strong focus towards colorectal cancer diagnosis, disease drug delivery and diagnosis, the book also examines the Tumor microenvironment responsive and site specific nanoparticles for cancer theragnostics. In 16 chapters Colorectal Cancer Disease and Advanced Drug Delivery Strategies not only provides the opportunity to understand and diagnose the disease but it also describes screening methods, drugs including nano and immunotherapy and gives insight into the role of nanoparticles, lipids and biomarkers in colorectal cancer. Content includes clinical trials in colorectal cancer research and disease models. This book directs researchers and clinicians how to better diagnose and treat colorectal cancer. Provides a wealth of information on the latest research and developments in the science and treatment of colorectal cancer. Contains new and innovative ways to treat colorectal cancer. Reflects on basic clinical and medical methods and recent advances in colorectal cancer science. Gives specific details about how nanoparticles can be used to target cancer cells or cancer treatment. Covers tumor microenvironment, their challenges and opportunities in colorectal cancer research.

**Uses of Inorganic Chemistry in Medicine** Nicholas P Farrell, 2007-10-31 Metal based drugs are a commercially important sector of the pharmaceutical business yet most bioinorganic textbooks lack the space to cover comprehensively the subject of metals in medicine. Uses of Inorganic Chemistry in Medicine approaches an understanding of the topic in a didactic and systematic manner. The field of inorganic chemistry in medicine may usefully be divided into two main categories: drugs which target metal ions in some form, whether free or protein bound, and secondly metal based drugs where the central metal ion is usually the key feature of the mechanism of action. This latter category can further be subdivided into pharmacodynamic and chemotherapeutic applications as well as those of imaging. The book summarises the chemical and biological studies on clinically used agents of lithium, gold and platinum as well as highlighting the research on prospective new drugs including those based on vanadium and manganese. The coverage allows a clear distinction between pharmacodynamic and therapeutic properties of metal based drugs and focuses not only on those clinical agents in current use but also on new drugs and uses. This book serves to fill an important niche bridging bioinorganic and medicinal chemistry and will undoubtedly be of use to senior undergraduates and postgraduates as well as being an invaluable asset for teachers and researchers in the discipline.

**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

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