Metal Complexes in Cancer Chemotherapy

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Sotiris K Hadjikakou, Christina N. Banti

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Metal Complexes in Cancer Chemotherapy Bernhard K. Keppler, 1993 **Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy 2** Steef van de Velde, J.H. Schornagel, 2013-11-11 The 7th International Symposium on Platinum and other metal coordination compounds in Cancer Chemotherapy ISPCC 95 organized by the European Cancer Centre was held in Amsterdam the Netherlands March 1 4 1995 As with previous ISPCC meetings the goal of ISPCC 95 was to bring together clinicians clinical investigators scientists and laboratory workers from many disciplines to promote further collaboration and cooperation in the development of new platinum and other metal coordination compounds as well as in new ways to use classical drugs as cisplatin and carboplatin in the treatment of cancer Important aspects addressed by experts in the field included the synthesis and activity of new platinum compounds the biochemistry and molecular pharmacology as weil as the c1inical pharmacology of this c1ass of antineoplastic agents an overview of current clinical studies one special minisymposium on the mechanisms of cell kill of platinum and one on resistance against platinum compounds Finally the current status of development of nonplatinum metal complexes was discussed This volume contains the contributions of the various speakers at ISPCC 95 and provides an up to date and comprehensive overview of this important class of anticancer agents ranging from synthesis and molecular pharmacology on one hand to c1inical pharmacology and cIinical investigations on the other hand The Organizing Corrunittee and Editors wish to express their gratitude to the contributors to this volume to the various organizations and pharmaceutical companies for their generous sponsoring of ISPCC 95 and to the Plenum Publishing Company for their help in producing this volume

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 **Metal Complexes in Cancer Therapy** Bernhard K. Keppler, 1993 Metal Complexes for Cancer Chemotherapy Philip James Miles, 2009 Metal Complexes in Cancer Chemotherapy Bernhard K. Keppler, 1993 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 labora tories throughout Europe and America and represent the many disci plines characteristic of this research such as clinical research pharmacology tumour biology and inorganic medicinal chemistry

Platinum Coordination Complexes in Cancer Chemotherapy Miles P. Hacker, Evan B. Douple, Irwin H. Krakoff, 2012-12-06 The idea for convening a Fourth International Symposium on Platinum Coordination Complexes in Cancer Chemotherapy was born in an assembly of researchers from the Vermont Regional Cancer Center and the Norris Cotton Cancer Center who shared a common interest in metal complexes It was agreed by those assembled that sufficient time had passed since the Third International Symposium on Platinum Coor dination Complexes in Cancer Chemotherapy held in 1976 at the Wadley Institutes of Molecular Medicine in Dallas Texas during which several advances in the chemistry biochemistry pharmacology and clinical use of platinum complexes had occurred to warrant a fourth symposium Furthermore intensive investigations in progress were bringing sophisticated methodologies to bear on the problems in the field clinical trials were yielding interesting results and unique approaches to cancer therapy were being designed Therefore an organizing committee was formed and planning culminated in the symposium which was held in Burlington Vermont June 22 24 1983

Gold and its Complexes in Anticancer Chemotherapy Mohmmad 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 Transition Metal Complexes as Drugs and Chemotherapeutic Agents N. Farrell, 2012-12-06 When this book was first conceived as a project the expanding interest in the clinical use of platinum and gold complexes made a survey of the relevant biological properties of metal complexes timely and appropriate This timeliness has not diminished during the gestation and final publication of the manuscript The introduction contains an explanation of the layout and approach to the book which I wrote as an overall survey of the wide variety of biological properties of metal complexes Hopefully the reader will see the parallels in mechanisms and behavior even in different organisms. The writing was considerably helped by the enthusiasm and confidence totally unearned on my part in the project of Professor Brian James and lowe him my special thanks I also owe a great debt of gratitude to my colleagues and especially to Eucler Paniago of the Universidade Federal de Minas Gerais for their comprehension and for the initial leave of absence which allowed me to begin the project To those who read some or all of the manuscript and made suggestions Bernhard Lippert Kirsten Skov and

Tom Tritton as well as the editor's reviewer I am also grateful As usual the final responsibility for errors or otherwise rests with the author

Ruthenium and other non-platinum metal complexes in cancer chemotherapy Enzo Alessio, 1990

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 Cancer Treatment Reports ,1978 A Commemorative Issue in Honor of Professor Nick Hadjiliadis Metal Complex Interactions with Nucleic Acids and/or DNA Sotiris K Hadjikakou, Christina N. Banti, 2019-02-05 This book is a printed edition of the Special Issue A Commemorative Issue in Honor of Professor Nick Hadjiliadis Metal Complex Interactions with Nucleic Acids and or DNA that was published in IJMS Cytotoxic, Mutagenic and Carcinogenic Potential of Heavy Metals Related to Human Environment N. Hadjiliadis, 2012-12-06 Environmental pollution is one of the main problems to confront humanity with the heavy metals occupying a leading role among the most pernicious pollutants The metals cause cancer and other sicknesses Their cytotoxic mutagenic and carcinogenic potentials are not fully understood and any thorough investigation demands the combined efforts of scientists drawn from many different disciplines But the effects of heavy metals are not all negative some like cis DDP and some ruthenium and tin complexes have antitumour activity. The idea underlying the present work is therefore to present a multidisciplinary perspective on heavy metals in the environment affording a better understanding of their action on human organisms and health aiming to make them less polluting and more environmentally friendly Research Awards Index ,1982

Environmental Health Perspectives ,1993 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 molecular biology and medicine Metal Complex DNA Interactions provides a comprehensive overview 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

thermodynamic models Medical Applications focuses on anticancer platinum drugs including discussions on DNA repair in antitumor effects of platinum drugs and photo dynamic therapy DNA Recognition Nucleases and Sensor describes probes 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 researchers and 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 of environmental and toxicological Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy Stephen B. Howell, 2013-11-11 Taken together the data presented in this review and work by many other investigators support the notion that DNA excision repair is important in a tumor cell's resistance to platinum compounds Inhibition of this repair system by combination chemotherapy with the excision repair inhibitors HU and Ara C produces synergistic cell kills and increased levels and persistance of DNA interstrand crosslinks The studies with cis DDP and DDP in combination with UV induced thymine dimers suggest that there may be competition for DNA repair enzymes between the dimer and the platinum lesion Whether the competing lesion is an intrastrand crosslink interstrand crosslink or platinum monoadduct or all of these lesions cannot be determined. The similarity between an intrastrand crosslink and a cyclobutane dimer suggests that these lesions may compete for repair However the increased peak levels of interstrand crosslinks and increased persistence of these lesions at later time points suggest that this lesion may also be a substrate for the repair system These observations may be of clinical relevance Recently Dr Kathy Albain of our institution has completed a Phase III I study using a 12 hour pretreatment with HU and Ara C in patients prior to their cis DDP therapy She observed a significant number of responders in this trial 54 She is currently completing a second Phase IIII study substituting IV HU for the oral formulation We anticipate initiating other clinical trials based upon these observations Materials for Biomedical Engineering Valentina Grumezescu, Alexandru Grumezescu, 2019-03-25 Materials for Biomedical Engineering Inorganic Micro and Nanostructures presents recent specific insights in new progress along with new perspectives for inorganic micro and nano particles The main focus of this book is on biomedical applications of these materials and how their biological properties are linked to various synthesis methods and their source of raw materials Recent information regarding optimized synthesis methods to obtain improved nano and microparticles for biomedical use as well as the most important biomedical applications of these materials such as the diagnosis and therapy of cancer are highlighted in detail Provides a valuable resource of recent scientific progress highlighting the most well known applications of inorganic micro and nanostructures in bioengineering Presents novel opportunities and ideas for developing or improving technologies in composites by companies biomedical industries and others Features at least 50% of its references from the last 2 3 years

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Metal Complexes In Cancer Chemotherapy Introduction

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