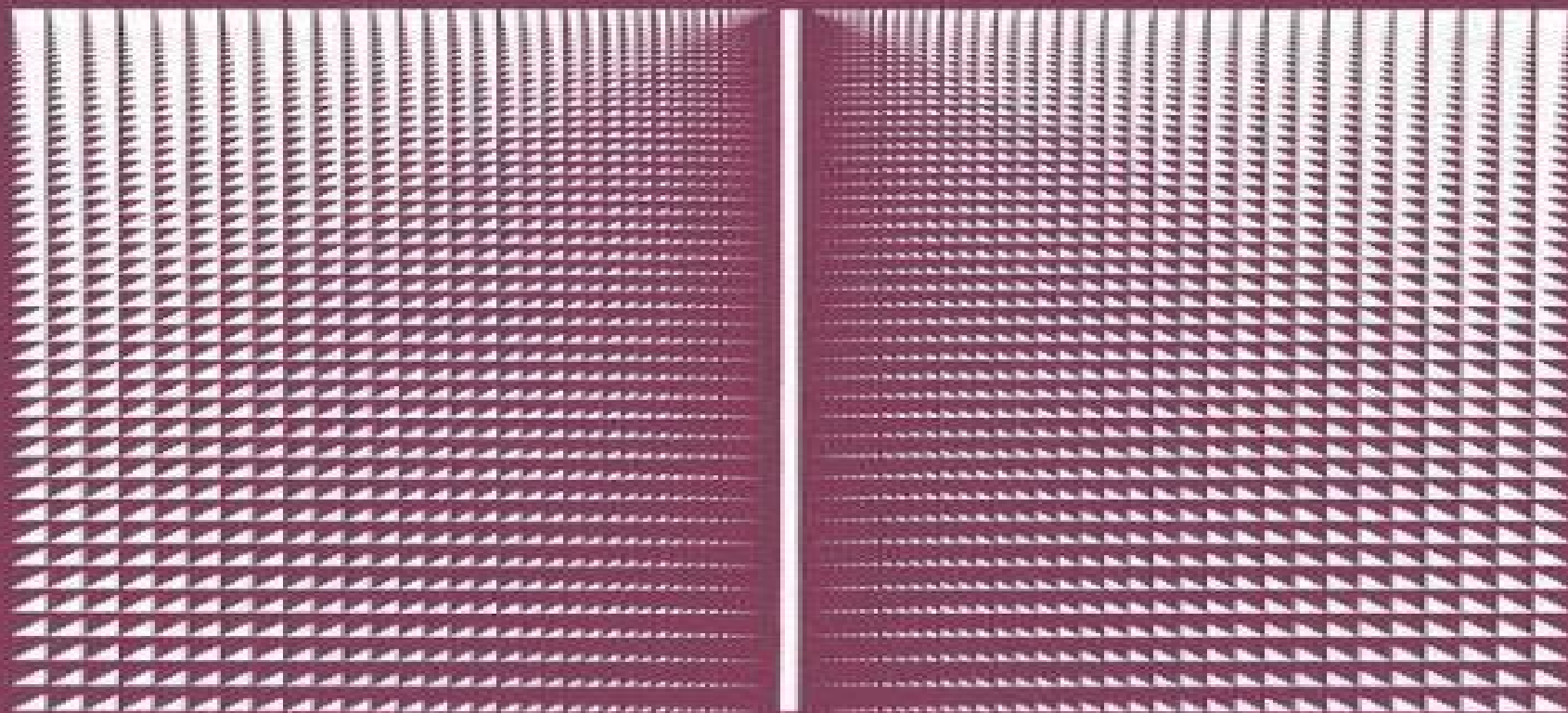


Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy



Edited by
Stephen B. Howell

Platinum And Other Metal Coordination Compounds In Cancer Chemotherapy

Neidle



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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 persistence 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 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. She is currently completing a second Phase III study substituting IV HU for the oral formulation. We anticipate initiating other clinical trials based upon these observations.

Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy 2 Steef van de Velde, J.H. Schornagel, 1996-04-30. The 7th International Symposium on Platinum and other metal coordination compounds in Cancer Chemotherapy ISPPC 95 organized by the European Cancer Centre was held in Amsterdam, the Netherlands, March 1-4, 1995. As with previous ISPPC meetings, the goal of ISPPC 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 well as the clinical pharmacology of this class 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 ISPPC 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 clinical pharmacology and clinical investigations on the other hand. The Organizing Committee 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 ISPPC 95, and to the Plenum Publishing Company for their help in producing this volume.

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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 well as the clinical pharmacology of this class 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 clinical pharmacology and clinical investigations on the other hand The Organizing Committee 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

Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy Marino Nicolini, 2012-12-06 Proceedings of the Fifth International Symposium held in Abano Terme Padova Italy June 29 July 2 1987 *Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy* Marino Nicolini, 1988-01-31 **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 **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 Coordination 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 **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 **Advances in Anticancer Agents in**

Medicinal Chemistry Michelle Prudhomme,2013-06-14 Advances in Anticancer Agents in Medicinal Chemistry is an exciting eBook series comprising a selection of updated articles previously published in the peer reviewed journal Anti Cancer Agents in Medicinal Chemistry The second Volume of this eBook series gathers updated reviews on several classes of molecules exhibiting anticarcinogenic potential as well as some important targets for the development of novel anticancer drugs **Molecular Aspects of Anticancer Drug DNA Interaction** Neidle,1993-08-16 This cutting edge book surveys the

current knowledge on the mode of action of the major classes of DNA interactive antitumor agents providing information that could be crucial for the discovery of new therapeutic substances It is an important reference for molecular biologists cancer researchers biochemists biophysicists and pharmacologists CRC Handbook of Nucleobase Complexes James R.

Lusty,2018-10-24 The purpose of this easy to use handbook is to provide a quick accessible reference to nucleobase complexes It describes these complexes with reference to methods of preparation their characterization and their toxicity and therapeutic indices It lists the modes of coordination together with the relevant spectral data and major methods of investigation This concise resource guide also includes data on the uncomplexed bases such as solubility pk accepted structures in the solid state and solutions and the natural occurrence of the base Investigators in the fields of transition metal chemistry biological inorganic chemistry and those working in medical laboratories will find this handbook indispensable

Chemoradiation in Cancer Therapy Hak Choy,2002-12-04 Internationally recognized experts in cancer biology and

clinical research review the present status of the multimodality approach to the management of solid tumors and speculate on possible future strategies for chemoradiation therapy The authors detail applications of combined modality therapy in lung esophageal breast gastric pancreatic colon and rectal cancers They also show how radiation interacts with such chemotherapeutic agents as the platinum complexes taxanes and gemcitabine in the treatment of malignant gliomas and head and neck cancer A review of how to integrate new specific molecular targeted agents into multimodality therapy in the future

Molecular and Clinical Advances in Anticancer Drug Resistance Robert F. Ozols, 2012-12-06 The importance of drug resistance in cancer chemotherapy cannot be over stated The 500 000 patients who die every year from cancer in the United States have in most cases been treated with chemotherapy Many of these patients responded initially to chemotherapy but death resulted from the development of drug resistant tumors In the first volume in the series Drug Resistance in Chemotherapy the results of comprehensive laboratory studies aimed at understanding the mechanisms for resistance to individual agents and to the development of broad cross resistance were described In the past 2 years there has been substantial progress in understanding the molecular biology associated with these mechanisms of drug resistance For the first time we are starting to understand which mechanisms are playing an important role in human tumors and even more importantly clinical trials have recently been initiated in an effort to reverse specific forms of drug resistance The purpose of this volume is to describe the new advances both at the molecular level and in the clinic regarding mechanisms of drug resistance and potential ways this resistance can be circumvented This volume is focused upon mechanisms of resistance associated with two major classes of anticancer drugs alkylating agents including cisplatin and the natural products e g adriamycin and vinblastine The first section of the book describes new insights into the genetic mechanisms associated with drug resistance

Antitumor Drug Radiation Interactions Bridget T. Hill, Angela S. Bellamy, 2018-01-10 This volume reviews the experimental data on drug radiation interactions Special emphasis is placed on clinically useful antitumor drugs Particular reference is made to appropriate timing concentration and sequencing of drug radiation combinations It includes discussions on the relative merits of experimental data derived from animal versus human tumors This book also presents a section on the potential for new model systems or alternative test procedures for evaluating therapeutic benefits and cytotoxicities Results of randomized clinical studies are reviewed with emphasis on recent studies involving protocols specifically designed to test the benefits from optimal integration of chemotherapy with radiotherapy This book is intended for laboratory researchers in the field and clinicians interested in using the combined modality approach It is also a useful resource for radiologists oncologists and all those interested in cancer research

Journal of the National Cancer Institute ,1988 Current Catalog National Library of Medicine (U.S.),1992 First multi year cumulation covers six years 1965 70 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1992 *Tin-Based Antitumour Drugs* Marcel Gielen, 2013-06-29 Whereas platinum compounds are already clinically used as anticancer agents

tin compounds exhibiting high enough antitumour activity have not yet been found to enter the clinical phase This is paradoxical with the observation that 50% of the tested compounds showed some activity which is an abnormally high percentage This is probably due to the fact that research of this type with tin compounds started more recently than with platinum compounds and that almost exclusively known compounds coming from laboratories working in the field of organotin compounds have been blindly tested Some research directed towards the development of organotin compounds with some biologically favourable properties for instance derivatives with hydrophilic or lipophilic or with increased bio availability characteristics has started only recently We thought that was now the appropriate time to bring together experts from different disciplines biochemists pharmacologists organotin chemists oncologists etc working in the field of tin based antitumour drugs to contribute to the critical assessment of existing knowledge in this new important topic to identify the directions for future research and to promote close working relations between the different countries and professional experiences gathered in this workshop *Sixth International Symposium on Platinum and Other Metal Coordination Compounds in Cancer Chemotherapy* ,1991 **Cancer Chemotherapy Reports** ,1975

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