## ANTHRACYCLINE AND ANTHRACENEDIONE - BASED ANTICANCER AGENTS



EDITED BY

J. WILLIAM LOWN

volume 6

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# **Anthracycline And Anthracenedione Based Anticancer Agents**

J. William Lown

#### **Anthracycline And Anthracenedione Based Anticancer Agents:**

Anthracycline and Anthracenedione-based Anticancer Agents J. William Lown, 1988 **Anticancer Agents from** Natural Products, Second Edition Gordon M. Cragg, David G. I. Kingston, David J. Newman, 2011-10-10 The approach to drug discovery from natural sources has yielded many important new pharmaceuticals inaccessible by other routes In many cases the isolated natural product may not be an effective drug for any of several reasons but it nevertheless may become a drug through chemical modification or have a novel pharmacophore for future drug design In summarizing the status of natural products as cancer chemotherapeutics Anticancer Agents from Natural Products Second Edition covers the History of each covered drug a discussion of its mechanism on action medicinal chemistry synthesis and clinical applications Potential for novel drug discovery through the use of genome mining as well as future developments in anticancer drug discovery Important biosynthetic approaches to unnatural natural products Anticancer Agents from Natural Products Second Edition discusses how complex target oriented synthesis enabled by historic advances in methodology has enormously expanded the scope of the possible This book covers the current clinically used anticancer agents that are either natural products or are clearly derived from natural product leads It also reviews drug candidates currently in clinical development since many of these will be clinically used drugs in the future Examples include the drugs etoposide and teniposide derived from the lead compound podophyllotoxin numerous analogs derived from taxol topotecan derived from camptothecin and the synthetic clinical candidates E7389 and HTI 286 developed from the marine leads halichondrin B and hemiasterlin **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 Analogue-based Drug Discovery II János Fischer, C. Robin Ganellin, 2010-08-24 Born out of a project of the IUPAC s committee on Medicinal Chemistry and Drug Development this reference addresses past and current strategies for successful drug analog development extending the previously published volume by nine new analog classes and eight case studies Like its precursor this volume also contains a general section discussing universally applicable strategies for analog discovery and development Spanning a wide range of therapeutic fields and chemical classes the two volumes together constitute the first systematic approach to drug analog development Of interest to virtually every researcher working in drug discovery and pharmaceutical chemistry Molecular Basis of Specificity in Nucleic Acid-Drug Interactions A. Pullman, Joshua Jortner, 2012-12-06 One of the central problems in the study of the mechanism of DNA ligand interactions is the existence and nature of sequence specificity with respect to the base pairs of DNA The presence of such a specificity could be of particular significance because it might possibly mean the involvement of specific genes in the effectiveness of the different drugs The elucidation of the factors responsible for the

specificity could then be important for the development of compounds susceptible to contribute to the control of gene expression and also to the development of rationally conceived improved new generations of effective and specific chemotherapeutic agents Important recent achievements experimental and theoretical in the analysis of such sequence specificities open prospects for possible rapid progress in this field The 23rd Jerusalem symposium was devoted to the exploration of these recent achievements in relation to many types of ligand with special emphasis on antitumor drugs All major types of interaction intercalation groove binding covalent linking coordination have been considered So was also the effect of the interaction on the structure and properties of the nucleic acids and the relationship between the interaction and biological or pharmacological activities We feel that this Volume presents a relatively complete up to date account of the state of the art in this important field of research Drugs Affecting Growth of Tumours Herbert M. Pinedo, Carolien H. Smorenburg, 2007-06-12 During recent years the field of effective anticancer agents has substantially increased The use of chemotherapy has been accepted as a standard therapy for an expanding number of tumour types and stages while many new agents are being investigated when standard therapy is lacking or failing Apart from new targets for anticancer agents attention is also focused on improving efficacy and tolerability of existing compounds This topical volume provides an up to date overview of clinically relevant data on anticancer agents and is not only intended for those working as a medical doctor with cancer patients but also for medical researchers and students The different classes of anticancer drugs are described by international authorities on the various topics The Anticancer Drugs William B. Pratt, 1994 This text offers an up to date review of the field of cancer chemotherapy including some of the new approaches to biological treatments of cancer and potential targets for new drug design A detailed description of the pharmacology mechanisms of action toxicity resistance mechanisms and clinical usefulness of each class of drugs is given The authors emphasize concepts involved in determining the mechanism of action and development of resistance the determinants of drug responsiveness to chemotherapeutic agents and a rationale for their clinical use in various types of cancer The text is organized in a way that makes it easy for the reader to conceptualize how drugs work and categorize them by their mechanism of action It facilitates an understanding of the rationale for chemotherapy with respect to the biology of the cancer cell and to tumor growth kinetics Drawing on the fields of authors draw on the fields of medicinal chemistry pharmacology biochemistry cell biology molecular biology and clinical medicine this timely book is extensively referenced and provides a historical background for the development of each class of Polysaccharides in Medicinal Applications Severian Dumitriu, 2017-10-19 Integrates the latest advances in drugs polysaccharide chemistry and structure analysis with the practical applications of polysaccharides in medicine and pharmacy highlighting the role of glycoconjugates in basic biological processes and immunology It also presents recent developments in glycobiology and glycopathology The work covers bacterial fungal and cell wall polysaccharides microbial and bacterial exopolysaccharides industrial gums the biosynthesis of bacterial polysaccharides and the production of microbial

polysaccharides **DNA-targeting Molecules as Therapeutic Agents** Michael J. Waring, 2018-03-12 There have been remarkable advances towards discovering agents that exhibit selectivity and sequence specificity for DNA as well as understanding the interactions that underlie its propensity to bind molecules This progress has important applications in many areas of biotechnology and medicine notably in cancer treatment as well as in future gene targeting therapies The editor and contributing authors are leaders in their fields and provide useful perspectives from diverse and interdisciplinary backgrounds on the current status of this broad area The role played by chemistry is a unifying theme Early chapters cover methodologies to evaluate DNA interactive agents and then the book provides examples of DNA interactive molecules and technologies in development as therapeutic agents DNA binding metal complexes peptide and polyamide DNA interactions and gene targeting tools are some of the most compelling topics treated in depth This book will be a valuable resource for postgraduate students and researchers in chemical biology biochemistry structural biology and medicinal fields It will also be of interest to supramolecular chemists and biophysicists **Drug-Nucleic Acid Interactions**, 2001-07-31 This volume consolidates the key methods for studying ligand nucleic acid interactions into a convenient source Techniques that are examined range from biophysical and chemical approaches to methods rooted in molecular and cell biology Pharmaceutical Design ,1995-06 Medicinal Chemistry of Anticancer Drugs Carmen Avendaño, J. Carlos Menéndez, 2008-06-04 Antitumor chemotherapy is nowadays a very active field of research and a huge amount of information on the topic is generated every year Although many books are available that deal with clinical aspects of cancer chemotherapy this book addresses the need for an updated treatment from the point of view of medicinal chemistry and drug design The focus of Medicinal Chemistry of Anticancer Drugs is on the mechanism of action of antitumor drugs from the molecular point of view and on the relationship between chemical structure and chemical and biochemical reactivity of antitumor agents aiming at the rationalization of the action of this type of drug which would allow the design of new active structures Explains the biological basis of cancer treatment and the role of chemists in improving anticancer drugs Provides the historical background and serves as a comprehensive and practical guide on cancer research and anticancer drug development Includes coverage of different approaches to treating cancer drug resistance and a chapter on cancer Advances in DNA Sequence-Specific Agents J.B. Chaires, 1996-07-09 DNA sequence specificity is a sub prevention specialty in the general area of molecular recognition This area includes macromolecular molecular interactions e g protein DNA oligomer DNA interacitons e g triple strands and ligand DNA interactions e g drug DNA It is this latter group of DNA sequence specificity interactions that is the subject of Volumes 1 and 2 of Advances in DNA Sequence Specific Agents As was the case for Volume 1 Part A also covers methodology but in Volume 2 we include calorimetric titrations molecular modeling X ray crystallographic and NMR structural studies and transcriptional assays Part B also follows the same format as Volume 1 and describes the sequence specificities and covalent and noncovalent interactions of small ligands with DNA This volume

is aimed in general at scientists who have an interest in deciphering the molecular mechanisms for sequence recognition of DNA The methods have general applicability to small molecules as well as oligomers and proteins while the examples provide general principles involved in sequence recognition The Organic Chemistry of Drug Design and Drug Action Richard B. Silverman, 2012-12-02 Standard medicinal chemistry courses and texts are organized by classes of drugs with an emphasis on descriptions of their biological and pharmacological effects. This book represents a new approach based on physical organic chemical principles and reaction mechanisms that allow the reader to extrapolate to many related classes of drug molecules The Second Edition reflects the significant changes in the drug industry over the past decade and includes chapter problems and other elements that make the book more useful for course instruction New edition includes new chapter problems and exercises to help students learn plus extensive references and illustrations Clearly presents an organic chemist's perspective of how drugs are designed and function incorporating the extensive changes in the drug industry over the past ten years Well respected author has published over 200 articles earned 21 patents and invented a drug that is under consideration for commercialization Chromatin and Disease Tapas K. Kundu, Dipak Dasgupta, 2007-05-04 It is more evident now than ever before that dynamic organization of human genome into nucleoprotein structure chromatin confers the unique regulatory mechanisms for most of the cellular phenomena which include replication transcription DNA repair recombination and also apoptosis The dynamic nature of the chromatin is regulated by chromatin modifications epigenetic alterations remodeling histone chaperones and functional interactions of different chromatin interacting n histone proteins Dysfunction of this highly inter connected machineries disturb the cellular homoeostasis and thereby causes several diseases As we advance in our knowledge of chromatin function and also disease mechanisms in more details their causal relationship is becoming more evident. This has lead to the identification of chromatin function as target for new generation therapeutics In the light of these advances it happens to be the right time to explore current insights into various aspect of chromatin and disease connection under one cover Authors who are actively involved in chromatin research and have made several original contributions to develop latest paradigms in the field have written the chapters of this book Significantly the authors repertoire is truly international They come from eight different countries of Asia Europe and America The book has been divided into three different parts Part I introduces the reader to the dynamic nature of chromatin structure and its link to diseases First two chapters in this part deal with the chromatin architecture chromatin dynamics in the cell cycle and molecular mechanism of chromatin remodeling Current Medicinal Chemistry, 1995-12 Molecular Aspects of Chemotherapy David Shugar, Wojciech Rode, Edward Borowski, 2013-03-09 While serendipity and random screening continue to fulfil a significant role in the search for new drugs current remarkable advances in molecular biology and genetics are dictating to a profound extent the approaches employed in their development Increasing attention is being devoted to investigations of the mechanisms of action of existing drugs and the sources of undesired side effects at the molecular level

The information so derived is now extensively applied with the aid of broad inter disciplinary approaches both theoretical and experimental to improvements in existing drugs and the rational design of new ones The foregoing comprised the subject matter of the 3rd International Symposium on Molecular Aspects of Chemotherapy under the auspices of the International Society of Chemotherapy and organized by the Committee on Drug Research Polish Academy of Sciences and the Department of Biotechnology and Biochemistry Technical University of Gdansk This volume includes the texts of the review lectures presented by invited participants on up to date achievements and future perspectives in molecular mechanisms of inhibition of cellular functions and metabolism with emphasis on the design and mechanisms of action of chemotherapeutic agents for treatment of bacterial neoplastic viral and parasitic diseases From the Contents it will be seen that the range of disciplines represented was a broad one including theoretical and experimental chemists physicists molecular biologists biochemists enzymologists virologists tumour biologists Plenary sessions were supple mented by several poster sessions

Bioactive Natural Products (Part B) Atta-ur Rahman, 2000-03-09 Natural products play an integral and ongoing role in promoting numerous aspects of scientific advancement and many aspects of basic research programs are intimately related to natural products The significance therefore of the Studies in Natural Product Chemistry series edited by Professor Atta ur Rahman cannot be overestimated This volume in accordance with previous volumes presents us with cutting edge Tetracyclines in Biology, Chemistry and Medicine M. Nelson, W. Hillen, R.A. contributions of great importance Greenwald, 2012-12-06 The tetracyclines have an illustrious history as the rapeutic agents which dates back over half a century Initially discovered as an antibiotic in 1947 the four ringed molecule has captured the fancy of chemists and biologists over the ensuing decades Of further interest as described in the chapter by George Armelagos tetracyclines were already part of earlier cultures 1500 1700 years ago as revealed in traces of drug found in Sudanese Nubian mummies The diversity of chapters which this book presents to the reader should illus trate the many disciplines which have examined and seen benefits from these fascinating natural molecules From antibacterial to anti inflammatory to anti autoimmunity to gene regulation tetracyclines have been modified and redesigned for various novel properties Some have called this molecule a biol ogist s dream because of its versatility but others have seen it as a chemist s nightmare because of the synthetic chemistry challenges and chameleon like properties see the chapter by S Schneider **International Review of Cytology** ,1995-01-25 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research

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