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Anthracycline Antibiotics

New Analogues, Methods of Delivery, and Mechanisms of Action

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Anthracycline Antibiotics New Analogues Methods Of Delivery And Mechanisms Of Actions

**Gordon M. Cragg, David G. I.
Kingston, David J. Newman**



Anthracycline Antibiotics New Analogues Methods Of Delivery And Mechanisms Of Actions:

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

Current Pharmaceutical Design, 1995-06

Anthracycline Antibiotics American Chemical Society. Meeting, Waldemar Priebe, 1995 Developed from a symposium at the 205th National Meeting of the ACS in Denver March 1993 held to bring together researchers who are involved in the direct design and synthesis of new drugs with researchers who are investigating biochemical processes and mechanisms of action The volume covers research relevant to the development of novel anthracyclines such as the synthesis of promising new analogs studies of mechanisms of action and new approaches to improving properties for this class of compounds by using different drug delivery and tumor targeting systems Annotation copyright by Book News Inc Portland OR

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 hemicasterlin

Experimental Methods in Organic Fluorine Chemistry Tomoya Kitazume, Takashi Yamazaki, 2019-06-14 In the fields of biologically active materials and functional materials fluorinated organic materials are becoming a focus of significant interest Over the

past decade synthetic methodologies and reagents in fluorine chemistry have been developed especially stereocontrolled synthetic methods enzymatic resolution to synthesize enantiomers fluoromethylated reagents and fluorination reagents These methods have contributed to the opening of new pathways for fluorinated materials However few fluorinated materials have been put to commercial use Furthermore there remain problems to be solved such as the handling of the materials availability of reagents and selectivity stereo regio and or chemoselectivity Research chemists technical engineers and graduate students in all branches of chemistry pharmaceuticals and material science interested in fluorinated materials need to know detailed experimental procedures of how to synthesize the target fluorinated materials This volume summarizes the chemical and microbial methods for obtaining functionalized fluorinated materials for use as building blocks detailed experimental methods reaction conditions solvent temperature handling techniques etc and the stereoview possible absolute configuration of the structures with spectral data Mono di tri and polyfluorinated materials derived from fluorinating agents fluoromethylated reagents and building blocks are summarized A chemical name index molecular formula index and reagent index are also included The publication of this monograph will provide access to the enormous possibilities in fluorine chemistry biological material chemistry and functionalized material chemistry

Current Pharmaceutical Design

,1998-06 **Current Medicinal Chemistry**,1995-12 Studies on Experimental Models Samar Basu,Lars

Wiklund,2011-04-13 There is a widespread consensus that use of antioxidants as a therapeutic approach may counteract free radical mediated pathologies However the role of antioxidants in normal physiology and redox signaling is still in its infancy Since oxidative stress is related to various diseases and pathologies scientists are eager to study the disease in humans but it is not always ethical to study all the aspects of the disease in humans Thus it becomes mandatory to study the disease process and the mechanisms behind it through experimental models which generally involve animals in vitro cell culture studies primates and even humans to a certain extent Studies on Experimental Models contains data on the experimental models or review of such models of oxidative stress in various diseases It is structured into six sections which are as follows diabetes cardiovascular neurology ocular diseases toxicology environmental and in vitro tissue culture Each section presents a sketch of models in humans animals and in vitro methods Taken together they comprise a valuable reference for basic and clinical scientists one aimed at contributing to the advancement of oxidative stress research using appropriate animal models

Current Pharmaceutical Design ,1998-06

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 Preparative Carbohydrate Chemistry Stephen Hanessian,1997-01-02 Detailing commonly used methods and procedures this reference discusses the reactions and derivative forms of carbohydrates Preparative Carbohydrate Chemistry covers the formation cleavage and reactions of derivatives and illustrates bond forming reactions of SN2 types free radicals chain extensions and branching The

contents include sugar **Synthesis and Studies of a Quinone Methide Model for the Anthracycline Antitumor Antibiotics** Catherine Woytowicz,1997 **Materials Science of DNA** Jung-II Jin,James Grote,2016-04-19 The field of materials science and technology has undergone revolutionary advances due to the development of novel analytical tools functional materials and multidisciplinary approaches to engineering Additionally theoretical predictions combined with increasingly improved models and computational capabilities are making impressive contribution Current Organic Chemistry ,1998-05 **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 contributions of great importance Naturally Occurring Quinones IV R.H. Thomson,2012-12-06 The earlier volumes of this series have long been regarded by chemists as classics of their type providing accurate and reliable information compiled by one of the world s leading figures in the field Detailed and authoritative reviews of the chemistry and characterisation of the naturally occurring quinones reported during the last 10 years are provided in this fourth volume which describes more than 900 new compounds Cancer Chemotherapy and Biotherapy Bruce A. Chabner,Dan L. Longo,2011-12-07 Updated to include the newest drugs and those currently in development this Fifth Edition is a comprehensive reference on the preclinical and clinical pharmacology of anticancer agents Organized by drug class the book provides the latest information on all drugs and biological agents their mechanisms of action interactions with other agents toxicities side effects and mechanisms of resistance The authors explain the rationale for use of drugs in specific schedules and combinations and offer guidelines for dose adjustment in particular situations This edition s introduction includes timely information on general strategies for drug usage the science of drug discovery and development economic and regulatory aspects of cancer drug development and principles of pharmacokinetics Eight new chapters have been added and more than twenty have been significantly revised A companion website includes the fully searchable text and an image bank Anthracycline Chemistry and Biology I Karsten Krohn,2008-07-09 With contributions by numerous experts Anticancer Agents from Natural Products Gordon M. Cragg,David G. I. Kingston,David J. Newman,2005-06-13 Plants marine organisms and microorganisms have evolved complex chemical defense and signaling systems that are designed to protect them from predators and provide other biological benefits These organisms thus produce substances containing novel chemotypes that may have beneficial effects for humans As collection methods improve and new screen *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

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