

NUCLEOSIDES AND NUCLEOTIDES AS ANTITUMOR AND ANTIVIRAL AGENTS

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Nucleosides And Nucleotides As Antitumor And Antiviral Agents

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Nucleosides And Nucleotides As Antitumor And Antiviral Agents:

Nucleosides and Nucleotides as Antitumor and Antiviral Agents D.C. Baker,C.K. Chu,2013-11-11 Due to the worldwide epidemic of acquired immunodeficiency syndrome AIDS the past ten years have witnessed a flurry of activity in the chemotherapy of viral diseases Unprecedented scientific efforts have been made by scientists and clinicians to combat infections of human immunodeficiency virus HIY the causative agent Looking back over the past ten years we have made remarkable progress toward the treatment of the viral disease isolation of HIV only two years after the identification of the disease plus major strides in the areas of the molecular biology and virology of the retrovirus etc More remarkably the discovery of the chemotherapeutic agent AZT Retrovir was made within two years after the isolation and identification of the virus followed by unprecedented drug development efforts to culminate in the FDA approval of AZT in twenty three months which was a record breaking time for approval of any drug for a major disease The last six to seven years have particularly been an exciting and productive period for nucleoside chemists Since the activity of AZI was established in 1985 nucleoside chemists have had golden opportunities to discover additional anti HIV nucleosides which are hoped to be less toxic and more effective than AZT and the opportunity continues As we all are aware AZT possesses extremely potent anti HIY activity and no other nucleoside or non nucleoside has surpassed the potency of AZT in vitro Recent Advances in Nucleosides: Chemistry and Chemotherapy C.K. Chu,2002-09-11 The book covers up to date information on nucleosides and antiviral chemotherapy contributed by the world experts in the field of nucleoside This book is the result of a meeting honoring Dr Jack J Fox who was one of the pioneers in nucleoside chemistry and chemotherapy This book consists of 15 excellent chapters in the area which include topics from recent synthetic methodologies nucleoside kinase implicated in chemotherapy and drug design excellent reviews on antiviral agents nucleoside metabolism mode of action in parasites new compounds under clinical and pre clinical trials IMPDH inhibitors to review on nucleoside prodrugs **Biomedical Index to PHS-supported Research** ,1991 Frontiers in Clinical Drug Research: HIV Atta-ur-Rahman,2015-04-02 Frontiers in Clinical Drug Research HIV is an eBook series that brings updated reviews to readers interested in learning about advances in the development of pharmaceutical agents for the treatment of acquired immune deficiency syndrome AIDS and other disorders associated with human immunodeficiency virus HIV infection The scope of the eBook series covers a range of topics including the medicinal chemistry and pharmacology of natural and synthetic drugs employed in the treatment of AIDS including HAART and resulting complications and the virology and immunological study of HIV and related viruses Frontiers in Clinical Drug Research HIV is a valuable resource for pharmaceutical scientists clinicians and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in HIV AIDS research The first volume of this series features 7 chapters that cover a variety of topics including Antiretroviral drug development HIV 1 genomics HIV drug targets such as ribosomes and HIV Integrase HAART associated nephrotoxicity **Biomedical**

Index to PHS-supported Research: pt. A. Subject access A-H ,1992 **Biocatalysis in the Pharmaceutical and Biotechnology Industries** Ramesh N. Patel,2006-09-26 Because enzyme catalyzed reactions exhibit higher enantioselectivity regioselectivity substrate specificity and stability they require mild conditions to react while prompting higher reaction efficiency and product yields Biocatalysis in the Pharmaceutical and Biotechnology Industries examines the use of catalysts to produce fine chemical **Playback and Studies of Animal Communication** Peter K. McGregor,1992-04-30 Playback is the technique of rebroadcasting natural or synthetic signals to animals and observing their response The ability to present a putative signal in isolation without the potential confounding effects of other activities of the signaller is the main reason for the depth and range of our knowledge of communication systems To date playback of sound signals has predominated but playback of electric signals and even video playback of visual signals suggests that playback will become just as prevalent in studies of communication in other sensory modalities This book is one of the outcomes of a workshop on playback held at Thombridge Hall in the Peak District National Park England during August 1991 There were two reasons for organising the workshop First the considerable and lively debate in the literature about the design and analysis of playback experiments the pseudoreplication debate was in danger of generating more heat than light A workshop forum seemed the obvious place to clarify and if possible resolve the debate Second with the number of new playback and analysis techniques increasing rapidly it seemed an opportune moment to discuss these techniques and to review some rapidly developing areas of interest in sound communication **Current Pharmaceutical Design ,1997-04** *Progress in drug research. 48.*1997 Ernst Jucker,1997 Progress in Drug Research is a prestigious book series which provides extensive expert written reviews on a wide spectrum of highly topical areas in current pharmaceutical and pharmacological research It serves as an important source of information for researchers concerned with drug research and all those who need to keep abreast of the many recent developments in the quest for new and better medicines *Palladium-Catalyzed Modification of Nucleosides, Nucleotides and Oligonucleotides* Anant R. Kapdi,Debabrata Maiti,Yogesh S. Sanghvi,2018-06-04 Palladium Catalyzed Modification of Nucleosides Nucleotides and Oligonucleotides describes the procedures and protocols related to the modification of nucleosides nucleotides and oligonucleotides via Pd mediated cross coupling processes The book highlights the growing area of nucleic acid modification and how Pd mediated coupling reactions can assist this development Users will find key synthetic protocols for these reactions in this latest volume in the Latest Trends in Palladium Chemistry series As most of the research in the field of antiviral agents has centered on the use of modified nucleosides that have exhibited promising activity this book provides an up to date reference for both professionals in industry and other interested parties Provides synthetic routes for useful nucleoside molecules information otherwise found only through time consuming literature searches Covers metal mediated and metal catalyzed cross coupling processes of nucleosides and related compounds Includes Suzuki Miyaura Stille and Sonogashira reactions as well as C H

bond functionalization Highlights the growing area of nucleic acid modification and how Pd mediated coupling reactions can assist

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