

**CARBOHYDRATE  
MODIFICATIONS  
IN ANTISENSE  
RESEARCH**



**EDITED BY  
Yogesh S. Sanghvi and  
P. Dan Cook**

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# Carbohydrate Modifications In Antisense Research

**Sabine Zange**



## **Carbohydrate Modifications In Antisense Research:**

*Carbohydrate Modifications in Antisense Research* Yogesh S. Sanghvi, American Chemical Society. Meeting, 1994 Reviews recent developments and progress in the carbohydrate related chemistry of novel nucleic acid mimics and their applications in antisense therapeutics Discusses the use of new chemical classes to rationally design and synthesize oligonucleotides Explores several carbohydrate modifications of the oligonucleotide to stabilize against nuclease degradation and to enhance the binding affinity for a given target Suggests future directions of carbohydrate related modifications for antisense molecules Carbohydrate Modifications in Antisense Research Yogesh S. Sanghvi, P. Dan Cook, 1994 Drug Delivery Systems in Cancer Therapy Dennis M. Brown, 2003-09-08 Leading experts survey the currently available technologies designed to improve the delivery of today's cancer chemotherapeutic agents The authors review both the theoretical and practical considerations governing conventional and nonconventional methods of drug administration and identify promising opportunities for product development In their outline and discussion of the use of novel formulation technologies including synthetic polymers and biomaterials for prolonged or sustained drug release to achieve potentially greater therapeutic effect they profile those technologies that have resulted in a number of approved and late stage clinical products Biotechnology And Safety Assessment J A Thomas, 2019-08-16 This updated text explains how advances in mammalian and plant genetics contribute to better therapeutics agents and more wholesome foods It addresses such topics as new pharmaceutical agents agribiotechnology safety evaluation of biotechnology derived drugs food safety nutritional science and regulatory and environmental aspects of genetically modified organisms New to this edition are chapters on biotherapeutics and herbicide resistant crops It should be of interest to biotechnology toxicologists pharmaceutical scientists environmental scientists and agriculturists **Comprehensive Natural Products Chemistry** Derek Barton, O. Meth-Cohn, 1999-02-18 **Comprehensive Natural Products Chemistry** Gene Therapy, 1997-08-12 Each volume of *Advances in Pharmacology* provides a rich collection of reviews on timely topics Emphasis is placed on the molecular bases of drug action both applied and experimental Volume 40 *Gene Therapy* features important new research on gene transfers and therapy in the herpes simplex virus anti tumor immunity steroid receptors cystic fibrosis and more Key Features It provides an excellent overview on a series of topics on gene therapy for the serious investigator **Antisense Oligodeoxynucleotides and Antisense RNA** Benjamin Weiss, 1997-06-23 A practical up to date treatise on this technology and its potential application in therapeutics It features critical analyses of the specificity of the agents and the possibility of antisense oligomers acting through non antisense mechanisms The history of early development of antisense oligodeoxynucleotides and their chemical modification to increase their stability is followed by delivery and penetration into cells non antisense effects of antisense oligonucleotides pharmacokinetic properties in vitro and in vivo model systems and clinical trials Anticancer Research, 1996

*Carbohydrate Modifications in Antisense Therapeutics*, 1994 **Comprehensive Natural Products Chemistry: DNA**

**and aspects of molecular biology** Derek H. R. Barton, Kōji Nakanishi, Otto Meth-Cohn, 1999 Hardbound This volume is intended to cover the chemistry of one of the most widely studied and important natural products DNA Discussed in detail are physicochemical properties of the molecule itself as well as small molecule natural products that are known to interact with it Also included are methods to synthesize and manipulate DNA and modified analogues Twenty chapters are devoted to this overall topic The first five relate to the structure of DNA the first focuses on thermodynamics and kinetics of double helix formation the next two describe triple and tetra helical structures formed by DNA and the last two focus on methods for probing DNA structure specifically NMR methods and chemical probing methods respectively Chapters 6-12 focus on the chemistry of natural DNA and modified analogues The first of these addresses nonenzymatic methods for synthesizing DNA and the next chapter on methods for attachment of reporter groups to

**Carbohydrate Mimics** Yves Chapleur, 1998-09-10 Carbohydrate Mimics Concepts and Methods Edited by Yves Chapleur Apart from the various functions of carbohydrates in natural processes they are important building blocks for drugs especially antibiotics In addition carbohydrates are considered as important structures in the immunological recognition process of the antigen antibody reaction The modification of the structure and thereby the chemistry of substrates is a common procedure in nature This naturally occurring process is reflected in the concept of molecular mimicry which has become a useful approach in drug discovery The search for carbohydrate analogues that exhibit better binding activity biological activity and stability began with the synthesis of azasugars A lot of structural modifications around the anomeric center of carbohydrates has been achieved over the last decade and these are summarized in terms of the different chemical and biological aspects of carbohydrate mimics in one part of this book In addition to the well established fields of C glycosides azasugars and carbasugars the other part of the book focusses on outstanding achievements in carbohydrate mimic research Everybody who is active in carbohydrate research or is interested in moving into this exciting field will benefit from this up to date source of informations The leading experts in this field describe their scientific approaches to real interdisciplinary puzzles This book should be an inspiration to scientists in organic medicinal chemistry biochemistry and biology

**Applied Antisense** Cy A. Stein, Arthur M. Krieg, 1998-03-19 Applied Antisense Oligonucleotide Technology provides the basic concepts as well as the practical concerns associated with the use of antisense oligonucleotides to modify gene expression Chapters include oligonucleotide chemistry DNA triplex formation delivery mechanisms pharmacokinetics toxicity oligonucleotides

**Antisense Therapeutics** G. L. Trainor, 1996

**Index of Conference Proceedings**, 1996

**Antisense & Nucleic Acid Drug Development**, 1997

**Medicinal Chemistry and Drug Discovery: Drug discovery and drug development** Alfred Burger, 2003

**Current Organic Chemistry**, 2006 Provides in depth reviews on current progress in the fields of asymmetric synthesis organometallic chemistry bioorganic chemistry heterocyclic chemistry natural product chemistry and

analytical methods in organic chemistry Each issue is edited by an appointed Executive Guest Editor

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