



Antisense Drug Technology: Principles, Strategies, and Applications

By Stanley T. Crooke

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Extensively revised and updated, **Antisense Drug Technology: Principles, Strategies, and Applications, Second Edition** reflects the logarithmic progress made in the past four years of oligonucleotide-based therapies, and, in particular, antisense therapeutics and research. Interpreting lessons learned from the clinical trials of first generation drugs, the book evaluates the technology as a whole and offers new directions and avenues of research and development.

Divided into five parts, the book begins with a thorough introduction to the mechanism of antisense drug action including the RNase H mechanism, small RNA silencing pathways, and the potential therapeutics of splice switching oligonucleotides. Leading researchers demonstrate the basics of oligonucleotide therapeutics in part two by delineating medicinal chemistry, pharmacokinetics, and delivery routes such as liposomal formulations for nucleic acid delivery. Part three details hybridization based drugs and considers the dramatic advances represented by 2' methoxyethyl chimeric antisense inhibitors and duplex RNA drugs. Other chemical classes of drugs and mechanisms of action are described in part four with further discussions on improving the second generation antisense drugs. The final part delves deeply into therapeutic applications. Contributing authors examine the potential of antisense drugs for the alleviation of cardiovascular diseases, metabolic diseases, inflammatory diseases, cancer, neurological disorders, and immune modulation.

Presenting a highly detailed, lucid discussion of the remarkable advances in the field, **Antisense Drug Technology: Principles, Strategies, and Applications, Second Edition** provides the platform for researchers to continue to aggressively pursue the great opportunity represented by this exciting technology.

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Editorial Review

Review

This book gives a nearly complete overview of the current state-of-the-art oligonucleotide drugs. ... provides valuable insights into the great opportunities that are presented by this technology.

?Dr. Kees Fluiter, The University of Amsterdam, in *ChemMedChem*, Vol. 4, 2009

This edition is a cutting edge document including up-to-date cited references and a variety of compelling clinical case studies, and it of course retains the superb basic principles and background to antisense drug technologies featured in the first edition.

?Gary Evans, Industrial Research Ltd., in *Journal of Medicinal Chemistry*, 2008, Vol. 51, No. 5

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