



Antisense Drug Technology: Principles, Strategies, and Applications

By Stanley T. Crooke

Download now

Read Online 

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke

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.

 [Download Antisense Drug Technology: Principles, Strategies, ...pdf](#)

 [Read Online Antisense Drug Technology: Principles, Strategie ...pdf](#)

Antisense Drug Technology: Principles, Strategies, and Applications

By Stanley T. Crooke

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke

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.

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke Bibliography

- Sales Rank: #2896683 in eBooks
- Published on: 2001-09-15
- Released on: 2001-09-15
- Format: Kindle eBook



[Download Antisense Drug Technology: Principles, Strategies, ...pdf](#)



[Read Online Antisense Drug Technology: Principles, Strategie ...pdf](#)

Download and Read Free Online Antisense Drug Technology: Principles, Strategies, and Applications
By Stanley T. Crooke

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

Users Review

From reader reviews:

Elvia Wirtz:

In other case, little individuals like to read book Antisense Drug Technology: Principles, Strategies, and Applications. You can choose the best book if you appreciate reading a book. As long as we know about how is important the book Antisense Drug Technology: Principles, Strategies, and Applications. You can add information and of course you can around the world by just a book. Absolutely right, because from book you can realize everything! From your country right up until foreign or abroad you can be known. About simple matter until wonderful thing you may know that. In this era, we can easily open a book or maybe searching by internet device. It is called e-book. You may use it when you feel weary to go to the library. Let's learn.

Neil Calvert:

Hey guys, do you wants to finds a new book you just read? May be the book with the headline Antisense Drug Technology: Principles, Strategies, and Applications suitable to you? The particular book was written by renowned writer in this era. Typically the book untitled Antisense Drug Technology: Principles, Strategies, and Applications is one of several books that everyone read now. This particular book was inspired many people in the world. When you read this publication you will enter the new dimension that you ever know before. The author explained their concept in the simple way, and so all of people can easily to recognise the core of this publication. This book will give you a wide range of information about this world now. To help you to see the represented of the world on this book.

Terry Speller:

The book Antisense Drug Technology: Principles, Strategies, and Applications has a lot info on it. So when you check out this book you can get a lot of gain. The book was authored by the very famous author. This articles author makes some research before write this book. This kind of book very easy to read you can

obtain the point easily after looking over this book.

Tommy Worm:

You could spend your free time to read this book this guide. This Antisense Drug Technology: Principles, Strategies, and Applications is simple to create you can read it in the park, in the beach, train and soon. If you did not possess much space to bring the actual printed book, you can buy typically the e-book. It is make you easier to read it. You can save often the book in your smart phone. Therefore there are a lot of benefits that you will get when you buy this book.

**Download and Read Online Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke
#08PM2EAWIYR**

Read Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke for online ebook

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke books to read online.

Online Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke ebook PDF download

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke Doc

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke MobiPocket

Antisense Drug Technology: Principles, Strategies, and Applications By Stanley T. Crooke EPub