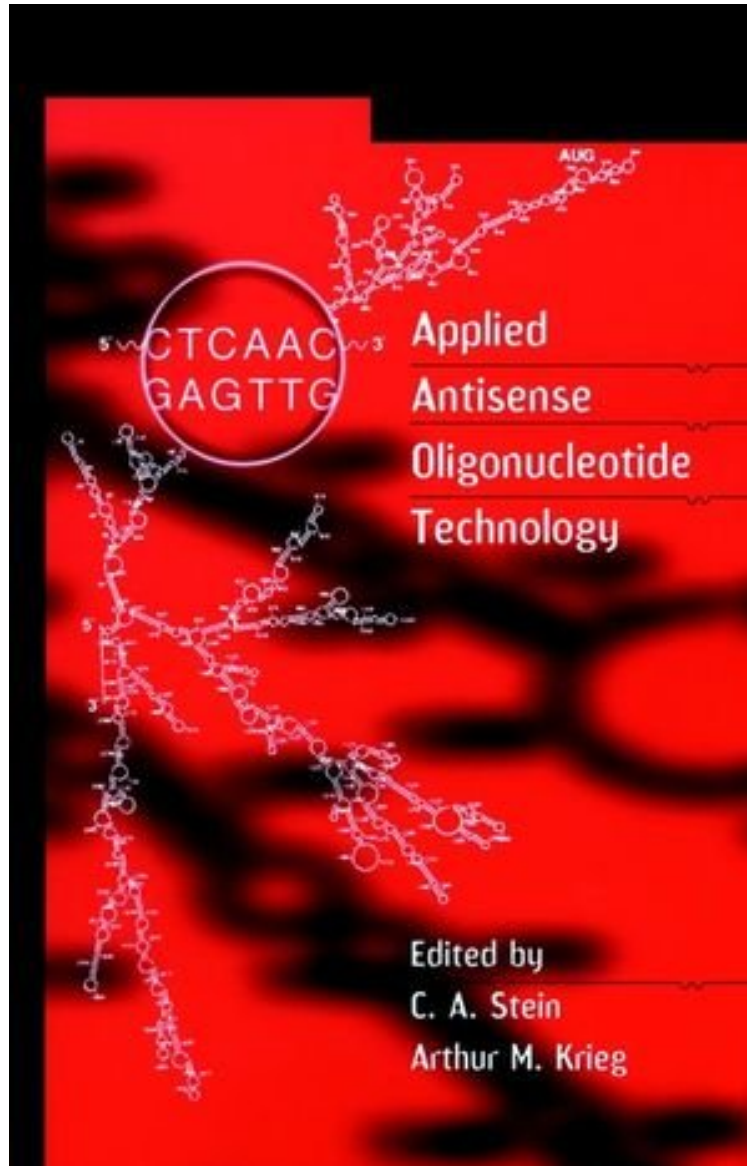


# Applied Antisense Oligonucleotide Technology

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Applied Antisense Oligonucleotide Technology Edited by C. A. Stein and Arthur M. Krieg  
The past fifteen years have seen major developments in the field of antisense oligonucleotide therapeutics. Antisense technology now yields large amounts of data in clinical trials and shows tremendous potential for therapeutic use in conditions ranging from cancers to infectious diseases. This volume features articles by scientists and academics at the leading edge of antisense research, presenting for the first time an overview of this dynamic, rapidly growing field. Applied Antisense Oligonucleotide Technology offers a balanced discussion of theory and application, with an emphasis on the practical aspects associated with the use of antisense oligonucleotides to modify gene expression. This book describes critical areas of research and includes results of clinical studies and strategies for use of various agents. It also covers topics of general interest such as pharmacokinetics, toxicity considerations, and the non-antisense effects of oligonucleotides. Complete with real-world examples and over one hundred illustrations, Applied Antisense Oligonucleotide Technology is presented in seven major parts: \* Oligonucleotide chemistry \* The mechanism of action and non-sequence specificity in oligodeoxynucleotide therapeutics \* Sequence-specific inhibition of gene expression and applied antisense oligonucleotide therapeutics \* Oligodeoxynucleotides as anti-HIV agents \* Therapeutic oligonucleotide data base, including pharmacokinetics, immune stimulation agents, and the use of oligonucleotides as antirestenotic agents \* Splicing and DNA triplex formation \* A review of the basic concepts in ribozyme technology  
Applied Antisense Oligonucleotide Technology is an essential reference for researchers in biotechnology, genetics, and molecular biology. Easy to read and thoughtfully compiled by the co-editors of the journal Antisense Research and Development, this work is also accessible to researchers and academics in other areas, and anyone interested in pursuing this cutting-edge technology.