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Titolo	Oligonucleotides as therapeutic agents [[electronic resource] /] / [editors, Derek J. Chadwick (Organizer) and Gail Cardew]
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Altri autori (Persone)	ChadwickDerek CardewGail
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Nota di contenuto	OLIGONUCLEOTIDES AS THERAPEUTIC AGENTS; Contents; Participants; Introduction; Oligonucleotide analogues: an overview; Phosphorothioate oligodeoxynucleotides: large-scale synthesis and analysis, impurity characterization, and the effects of phosphorus stereochemistry; Discovering antisense reagents by hybridization of RNA to oligonucleotide arrays; Pharmacokinetics of oligonucleotides in cell culture; Pharmacokinetics of oligonucleotides; Controversies in the cellular pharmacology of oligodeoxynucleotides; Sequence-specific control of gene expression by antigen and clamp oligonucleotides First- and second-generation antisense oligonucleotide inhibitors targeted against human c-rf kinase Differential oligonucleotide activity in cell culture versus mouse models; Structure-activity relationships in cell culture; Progress in antisense therapeutics discovery and development; Oligonucleotide therapeutics for human leukemia; Therapeutic applications of catalytic antisense RNAs (ribozymes);

Exogenous application of riboaymes for inhibiting gene expression;  
Efficient process technologies for the preparation of oligonucleotides  
In vivo production of oligodeoxyribonucleotides of specific sequences:  
application to antisense DNASummary; Index of contributors; Subject  
index

Sommario/riassunto

The use of oligonucleotides as therapeutic agents rests upon their ability to interfere, in a sequence-specific manner, with the fundamental machinery of protein synthesis either by binding to the mRNAs transcribed from a gene or by binding directly to a target gene. This approach can be used not only for inhibition of the synthesis of host proteins but also of those required by invading pathogens. Potential therapeutic applications are enormous, ranging over hypertension, cardiovascular disease, autoimmune disease, viral and other parasitic infections (especially HIV), and cancer. This book d

2. Record Nr.	UNIORUON00254291
Autore	SATTA, Luciano
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Descrizione fisica	420 p. ; 24 cm
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