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Nota di contenuto	OLIGONUCLEOTIDES AS THERAPEUTIC AGENTS; Contents; Participants; Introduction; Oligoncleotide analogues: an overview; Phosphorothioate oligodeox ynucleotides: large-scale synthesis and analysis, impurity characterization, and the effects of phosphorus stereochemistry; Discovering antisense reagents by hybridization of RNA to oligonucleotide arrays; Pharrnacokinetics of oligonucleotides in cell culture; Pharrnacokinetics of oligonucleotides; Controversies in the cellular pharmacology of oligodeox ynucleotides; Sequence-specific control of gene expression by antigene and clamp oligonucleotides First- and second-generation antisense oligonucleotide inhibitors targeted against human c-raf kinaseDifferential 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, vital and other parasitic infections (especially HIV), and cancer. This book d