



Oligonucleotide Synthesis

**UCLA Jonsson Comprehensive Cancer
Center**



Oligonucleotide Synthesis:

Oligonucleotide Synthesis Michael J. Gait, 1984 **Oligonucleotide Synthesis** Piet Herdewijn, 2008-02-04 A collection of powerful new techniques for oligonucleotide synthesis and for the use of modified oligonucleotides in biotechnology Among the protocol highlights are a novel two step process that yields a high purity less costly DNA the synthesis of phosphorothioates using new sulfur transfer agents the synthesis of LNA peptide conjugation methods to improve cellular delivery and cell specific targeting and triple helix formation The applications include using molecular beacons to monitor the PCR amplification process nuclease footprinting to study the sequence selective binding of small molecules of DNA nucleic acid libraries and the use of small interference RNA siRNA as an inhibitor of gene expression Comprehensive Medicinal Chemistry III , 2017-06-03 Comprehensive Medicinal Chemistry III Eight Volume Set provides a contemporary and forward looking critical analysis and summary of recent developments emerging trends and recently identified new areas where medicinal chemistry is having an impact The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges These include drug targeting biomolecular therapeutics development of chemical biology tools data collection and analysis in silico models as predictors for biological properties identification and validation of new targets approaches to quantify target engagement new methods for synthesis of drug candidates such as green chemistry development of novel scaffolds for drug discovery and the role of regulatory agencies in drug discovery Reviews the strategies technologies principles and applications of modern medicinal chemistry Provides a global and current perspective of today s drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal assays reviewing the discovery and development of key drugs Biomedical Index to PHS-supported Research , 1995 **Process Optimization of Automated Large-scale Oligonucleotide Synthesis** Harvey Jack Schiller, 2004 **Design & Targeted Reactions of Oligonucleotide Derivatives** Dmitri G. Knorre, 1994 Antisense oligonucleotides represent a new paradigm for drug delivery employing a new class of chemicals to intervene in biological processes that have never before been used as sites for drug action This book places antisense oligonucleotides in the context of drug discovery and development reviewing the current status of research in antisense drugs and discussing strategies for future challenges and opportunities It presents several antisense approaches emphasizing the preparation investigation and applications of the reactive derivatives of antisense oligonucleotides Specific topics covered include reagents able to modify nucleic acids the methods for preparing these reagents the reactions within the complexes with the target nucleic acids or oligonucleotides and possible structural and kinetic problems Biological applications of reactive oligonucleotide derivatives are considered as well *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* , 1992 **Protocols for Oligonucleotides and Analogs** Sudhir Agrawal, 1993-08-31 When first conceived not only was the aim of *Protocols for Oligo nucleotides and Analogs* to provide wide coverage of the ohgonuc otide chemistry field for

readers who are well versed within the field but also to give investigators just entering into the field a new perspective The very first book on this topic was edited and published by Michael Gait in 1984 in whose laboratory I encountered the newer aspects of oligonucleotide chemistry Since then oligonucleotide research has developed to such an extent that its uses extend far beyond basic studies and now find wide application throughout clinical science as well Until recently the major application of oligonucleotides has been in the area of DNA based diagnostic and antisense oligonucleotide based therapeutic approaches However oligonucleotides are now also being used as therapeutic agents and are thus frequently found in clinical trials in humans Synthesis of unmodified oligonucleotides using automated synthesizers has become a common practice in numerous laboratories However improvements on the existing techniques and the introduction of ever newer methods for oligonucleotide synthesis is constantly driving ahead in the leading research laboratories And several new oligonucleotide analogs have been synthesized and studied for their individual properties in recent years The present volume strives to bring the readers the most up to date information on the newest aspects of synthesis of oligonucleotides and their analogs A separate volume covers synthesis of oligonucleotide conjugates along with most of the analytical techniques presently used for analysis of oligonucleotides

Unnatural Amino Acid Incorporation and Click Chemistry, 2018-03-19 Seminar paper from the year 2014 in the subject Chemistry Biochemistry grade 1 0 LMU Munich Chemie language English abstract In the present work a modified version of yellow fluorescent protein containing an unnatural structural homologue of the natural amino acid pyrrolysine with a norbornene moiety was produced by expression in *Escherichia coli* The incorporation of the unnatural amino acid was achieved by amber stop codon suppression method A biorthogonal click reaction was performed binding a synthetic fluorescent dye to the modified protein All steps towards necessary for obtaining the genetically modified organism were performed and documented The artificial amino acid as well as the dye used in the click reaction were synthetically prepared The success of the project was demonstrated by LC MS studies of the products Fluorescence spectroscopy of click reaction product and the protein was performed but no conclusive proof of FRET effects could as yet be made This point remains of interest for future studies

Therapeutic Oligonucleotides Yoon S. Cho-Chung, Alan M. Gewirtz, Cy A. Stein, National Institutes of Health (U.S.). Therapeutic Oligonucleotide Interest Group, 2003 This work is concerned with various aspects of oligonucleotides including triplex DNA transcription factor decoy antisense DNA RNA ribozymes PNA 2 5 oligoadenylates RNAi and CpG immune stimulating oligomers diagnostic oligonucleotide chips DNA chips and gene therapy vectors

Synthesis of Therapeutic Oligonucleotides Satoshi Obika, Mitsuo Sekine, 2018-12-08 This book presents the latest knowledge on a broad range of topics relating to the synthesis of natural and artificial oligonucleotides with therapeutic potential Nucleic acid based therapeutics are attracting much attention and numerous therapeutic oligonucleotides such as antisense oligonucleotides siRNAs splice switching oligonucleotides and nucleic acid aptamers are being evaluated in clinical trials for the treatment of a variety of diseases Synthesis of Therapeutic

Oligonucleotides covers a broad range of topics in the field that are of high relevance to researchers including the synthesis of natural and chemically modified oligonucleotides the development of novel nucleic acid analogs industrial scale synthesis and purification of oligonucleotides and important aspects of chemistry manufacturing and controls CMC The aim is to provide new insights and inspire fresh ideas in nucleic acid chemistry that may ultimately lead to novel concepts and techniques and the discovery of more effective nucleic acid drugs The book will be of high value for both established researchers in the field and students intending to specialize in nucleic acid chemistry research

Oligonucleotides as Therapeutic Agents Derek Chadwick, Gail Cardew, 1997-10-28 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 discusses the chemistry and pharmacokinetics of oligonucleotides and their analogues and surveys the results of structure activity studies and current clinical trials It also critically reviews the problems with antisense therapy such as the enzymatic destruction of oligonucleotides the doses required for a therapeutic response the difficulty in directing oligonucleotides to particular target tissues and cells the need for parenteral administration and doubts concerning the mechanism of action especially problems associated with non specific binding to proteins and long term effects

Oligonucleotides and Analogues Fritz Eckstein, 1991 Interest in oligonucleotide synthesis has expanded dramatically since the publication of M Gait's book in this series in 1984 The process has been automated new reagents have been developed and the range of uses for the compounds produced has increased and continues to grow This volume provides practical guidance on oligonucleotide synthesis and methods for introducing modifications into these molecules State of the art techniques for automated synthesis are covered in two chapters on the production of oligodeoxynucleotides and oligoribonucleotides Synthesis of modified oligodeoxynucleotides is also detailed including modification of the phosphate backbone to produce phosphorothioates phosphorodithiolates and methyl phosphonates all of which are of considerable importance due to their potential therapeutic applications Other chapters describe production of sugar modified oligodeoxynucleotides and the attachment of various reported groups these techniques are useful to those interested in non radioactive probes for hybridization and for the study of DNA DNA and DNA protein interactions This book will be of interest to academic and industrial researchers enabling both chemists and non chemists to synthesize oligonucleotides and analogues for a wide variety of experimental purposes

Chemical Abstracts, 1925 Russian Chemical Reviews, 2004 Symposium on RNA Biology II, RNA, Tool and Target, 1997 **Chemica Scripta**, 1986 *Polymers as Aids in Organic Chemistry* N.K Mather, C. K. Narang, Ross Ernest Williams, 1980-01-28 *Polymers as Aids in Organic Chemistry* covers the

broad classifications and application of polymers in organic chemistry This book is organized into 15 chapters that focus on the transformation of polymers and their role in other reagents that must be easily separated from their final product After a brief introduction to polymer chemistry the book presents a tabulation of the various types of polymers that have been used and the methods for their characterization It then discusses the use of polymers as supports in peptide oligonucleotide and oligosaccharide chemistry in peptide sequencing in monofunctionalized difunctional compounds preparation as aids in asymmetric syntheses and as trapping agents in the determination of reaction intermediates The subsequent chapters describe the use of polymers as catalysts with particular emphasis on transition metals immobilized in the polymer matrix and used as catalysts The concluding chapters examine polymer immobilized compounds enzymes and whole cells that have been used to carry out a large number of reaction most of which impinge on the area of organic chemistry Polymer scientists and researchers and organic chemists will find this book invaluable

Scientific Report UCLA Jonsson Comprehensive Cancer Center, 1991 Soviet Journal of Bioorganic Chemistry ,1991

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