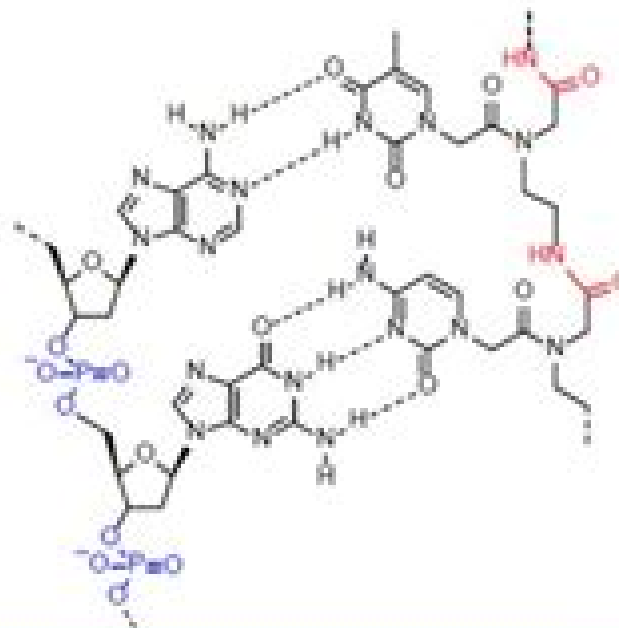
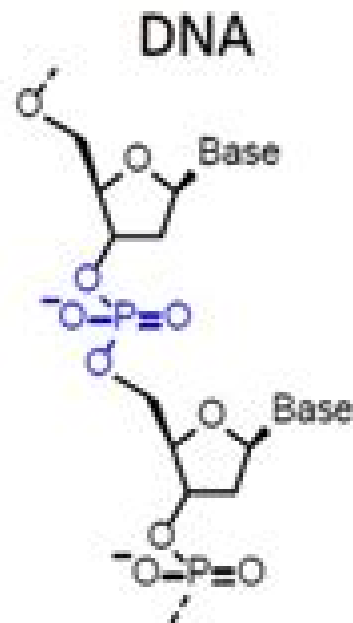


# PNA : Peptide Nucleic Acid

**PNA** : Artificial nucleic acids having amide bonds in backbone



Sequences		TGTACGTCACAATA	GTAGATCACT	AGTGATCTAC
T <sub>m</sub> (°C)	PNA/DNA	69.5	51.0	49.0
	DNA/DNA	53.3	33.5	33.5
		+16.2°C	+17.5°C	+15.5°C

M. Egholm, et al., *Nature*, 345, 566-568 (1993)

Formation of very stable double strands with DNA

# Peptide Nucleic Acids

**Subhakar Dey**



## **Peptide Nucleic Acids:**

*Peptide Nucleic Acids* Peter E. Nielsen, 2004 *Peptide Nucleic Acids* Second Edition has been extensively revised updated and enlarged to contain many new chapters covering the most recent topics and applications in this fast moving field The book contains state of the art protocols and applications on all aspects of peptide nucleic acids Concepts are clearly explained with each chapter containing concise background information Written by leading experts in the field the book is an invaluable and complete reference work on this novel and exciting area *Peptide Nucleic Acids* Peter E.

Nielsen, 2008-02-04 Peptide nucleic acids PNAs have now existed for slightly more than ten years with the interest in and applications of this pseudopeptide DNA mimic steadily increasing during the entire period PNAs have rapidly attracted the attention of scientists from a diversity of fields ranging from bio organic and biophysical chemistry to prebiotic evolution and from molecular biology to genetic diagnostics and drug development Many of the applications take advantage of the unique properties of PNA an uncharged pseudopeptide that distinguish this DNA mimic from more traditional DNA analogs Rather than trying to create a comprehensive collection of all published methods and protocols involving PNA many of which have not yet been validated I have decided to concentrate on select protocols that are either very well established by several groups around the world such as PCR clamping and in situ hybridization or on new methods that may have broader future impact Basic methods for PNA oligomer synthesis and analyses have also been included I am very grateful to those friends and colleagues who have enthusiastically contributed their work discussions and writing and thereby made this book possible Peter E Nielsen v Contents Preface v Contributors ix I INTRODUCTION 1 PNA Technology Peter E Nielsen 3 II CHEMISTRY 2 Solid Phase Synthesis of PNA Oligomers Frederik Beck 29 3 Synthesis of PNA Peptide Conjugates Satish Kumar Awasthi and Peter E Nielsen 43 4 Parallel Synthesis of PNA Peptide Conjugate Libraries Satish Kumar Awasthi and Peter E Nielsen

Peptide Nucleic Acids Eylon Yavin, 2020 This book compiles four review articles and four research papers that highlight recent developments in the field of peptide nucleic acid PNA chemistry and biomedicine The review articles encompass a variety of fields related to PNA emphasizing the versatility of this DNA mimic Two excellent reviews detail the use of PNA for molecular diagnostics of miRNAs and genetic point mutations SNPs Another review provides a comprehensive analysis of the various approaches for gene editing using chemically modified PNA molecules Lastly PNA molecules are elegantly described as effective antisense antimicrobial agents in the final review The high binding affinity of PNA to complementary DNA and RNA is highlighted in three research articles Two articles show how PNA molecules act as splice modulating and RNA masking molecules separately In another contribution the high affinity and achiral characteristics of PNAs are used to develop a stable L DNA based catalytic hairpin assembly Lastly chemically modified PNA molecules are shown to be superior probes for SNP detection Altogether these studies illustrate how PNA molecules may be useful for a variety of biomedical applications as either therapeutic or diagnostic agents **Peptide Nucleic Acids, Morpholinos and Related**

**Antisense Biomolecules** Christopher Janson, Matthew During, 2007-03-06 This volume is unique to the existing literature in the Peptide Nucleic Acid field in that it focuses on comparing and contrasting PNA with other available oligonucleotide homologues and considers areas in which these biomolecules could be profitably applied to clinical and diagnostic applications Part I of the book addresses comparative strengths and weaknesses of various nucleoside homologues Part II of the book addresses specific translational or clinical applications for PNA and related antisense biomolecules The editors have succeeded in presenting a balanced yet broad view of the methods available for gene targeting and modification *Peptide Nucleic Acids* Peter E. Nielsen, 2003 *Peptide Nucleic Acids and Markers* Prasanna Ramani, 2011-07 The remarkable binding properties of Peptide Nucleic Acids PNA the so called artificial DNAs have spawned a rapidly expanding new field of research where the targets are the synthesis of PNAs and PNA analogues and their applications as therapeutics DNA diagnostics tools in biotechnology and much more PNA is linked to various scientific disciplines few includes medicinal chemistry biochemistry molecular biology immunology and drug development This book describes the design synthesis and analytical studies of labeled nucleic acid analog Basic methods for the synthesis of PNA monomer oligomer are incorporated Further the syntheses of electrochemical and fluorescently labeled PNA monomers oligomers are dealt with in detail The final part of the book discusses about the possibility of using linkers spacers to carry marker to link PNA monomer oligomer This book would be an inspiration for undergraduates postgraduates and experienced researchers as it provides an easy introduction to the optimal use of PNA in various disciplines **Peptide Nucleic Acids (PNA)** Biosearch, Inc, Millipore Corporation, 1994 *Peptide Nucleic Acids, Morpholinos and Related Antisense Biomolecules* Christopher Janson, Matthew During, 2008-11-01 This volume is unique to the existing literature in the Peptide Nucleic Acid field in that it focuses on comparing and contrasting PNA with other available oligonucleotide homologues and considers areas in which these biomolecules could be profitably applied to clinical and diagnostic applications Part I of the book addresses comparative strengths and weaknesses of various nucleoside homologues Part II of the book addresses specific translational or clinical applications for PNA and related antisense biomolecules The editors have succeeded in presenting a balanced yet broad view of the methods available for gene targeting and modification *Synthetic Studies on Peptide Nucleic Acids* Joseph Tse, 2004 Synthesis and Properties of Two Domain Peptide Nucleic Acids (PNA) Leif Christensen, 1997 **Pseudo-peptides in Drug Discovery** Peter E. Nielsen, 2004-04-02 Peptide geh ren zu den vielseitigsten bioaktiven Molek len überhaupt Trotzdem ist ihre Eignung als pharmazeutische Wirkstoffe beschr nkt da sie im K rper rasch abgebaut oder ver ndert werden Um dieses Problem zu l sen sind stabile und gleichzeitig biologisch aktive Pseudopeptide entwickelt worden Diese Verbindungen erschlie en neue Perspektiven in der Medikamentenentwicklung und stellen eine ganze Palette neuartiger hochspezifischer und nicht toxischer Pharmazeutika zur Verf gung Erstmals ist hier das gesamte Wissen zusammengefasst das ber verschiedene Arten von Peptidomimetika und andere Pseudopeptide mit Einsatzm glichkeiten in der Pharmaforschung

gewonnen wurde Peptide Beta Peptide DNA bindende Polyamide sowie Peptid Nucleinsäuren werden hier behandelt  
 Ausgewiesene Experten diskutieren chemische Eigenschaften und Stabilität biologische Aktivität und Reaktivität sowie  
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 FISH is quickly became the standard technique for in situ chromosomal investigations as illustrated by its large variety of  
 applications in research and diagnosis However during the last decade alternative methods to FISH have been introduced  
 and have shown to be valuable in detecting chromosomes and quantifying chromosomal abnormalities These alternative  
 procedures are the Primed IN Situ PRINS labelling and the Peptide Nucleic Acid PNA probes The two procedures present  
 several advantages for the in situ detection of nucleic acid sequences such as the small size of PNA probes and PRINS  
 primers or the fast kinetics of PRINS and PNA labelling reactions that make them very attractive for a number of cytogenetic  
 purposes This book provides a valuable introduction and overview of the principles and the applications of alternative  
 approaches in the field of molecular cytogenetics     **Peptide Nucleic Acids (PNA)** Michael Egholm,1992     **Millipore**  
**Peptide Nucleic Acids (PNAs)** Millipore Corporation,1993     Alpha Helical Peptide Nucleic Acids (alpha  
PNAs)-integration of Protein Structure and Nucleic Acid Function Subhakar Dey,2001     **Artificial DNA** Yuri E.  
 Khudyakov,Howard A. Fields,2002-09-25 Combining elements of biochemistry molecular biology and immunology artificial  
 DNA can be employed in a number of scientific disciplines Some of the varied applications include site specific mutagenesis  
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