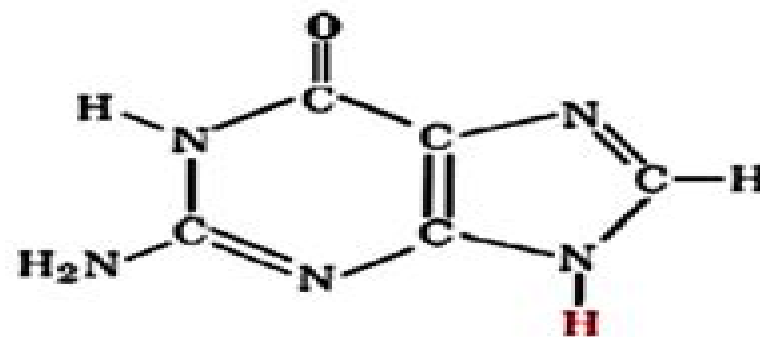
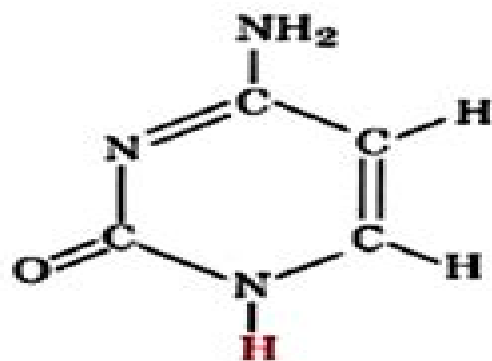


**Adenine (A)**  
(DNA and RNA)

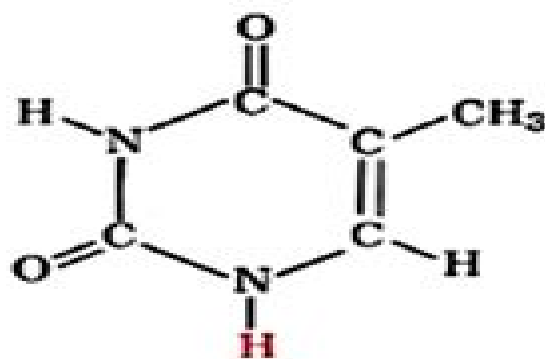


**Guanine (G)**  
(DNA and RNA)

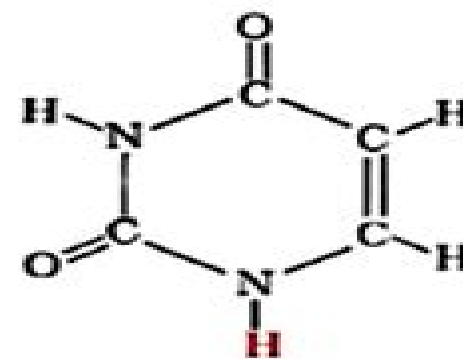
### Purines



**Cytosine (C)**  
(DNA and RNA)



**Thymine (T)**  
(DNA only)



**Uracil (U)**  
(RNA only)

### Pyrimidines

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# Structures of Nucleic Acids

# Nucleic Acid Structure And Recognition

**Lihe Zhang,Zhen Xi,Jyoti  
Chattopadhyaya**



## **Nucleic Acid Structure And Recognition:**

**Nucleic Acid Structure and Recognition** Stephen Neidle, 2002 This book provides a detailed view of the molecular structures of DNA and RNA and how they are recognised by small molecules and proteins Extensive source material is provided including information on relevant web sites and computer programmes The major methods of structural investigation for nucleic acids X ray crystallography NMR and molecular modelling are reviewed and their scope and limitations in the context of nucleic acids discussed Also covered are the conformational features of nucleic acid building blocks including a description of how base pair morphologies are analysed the structures of DNA double helices and helical oligonucleotides emphasising current ideas on sequence dependent structure and DNA DNA interactions including triplexes and quadruplexes The principles of RNA folding ribosome and ribozyme structure are also surveyed Both covalent and non covalent nucleic acid interactions with small molecules are described with the emphasis on recognition principles and sequence specific gene recognition The principles of protein nucleic acid are covered focussing on regulatory proteins Nucleic Acid Structure and Recognition will therefore equip readers with a good understanding of all the important aspects of this major field The Nucleic Acid Database NDB crystallographic and NMR structures for the nucleic acid structures described in the book are freely available through the Nucleic Acid Structure and Recognition website [DNA Structure and Recognition](#) Stephen Neidle, 1994 This book is a concise comprehensive survey of DNA structure from first principles to the ways in which drugs and proteins interact with DNA Such an understanding of DNA structure is essential for more detailed study in areas such as gene regulation and DNA targeted drug action *Principles of Nucleic Acid Structure* Stephen Neidle, 2010-07-26 This unique and practical resource provides the most complete and concise summary of underlying principles and approaches to studying nucleic acid structure including discussion of x ray crystallography NMR molecular modelling and databases Its focus is on a survey of structures especially important for biomedical research and pharmacological applications To aid novices Principles of Nucleic Acid Structure includes an introduction to technical lingo used to describe nucleic acid structure and conformations roll slide twist buckle etc This completely updated edition features expanded coverage of the latest advances relevant to recognition of DNA and RNA by small molecules and proteins In particular the reader will find extensive new discussions on RNA folding ribosome structure and antibiotic interactions DNA quadruplexes DNA and RNA protein complexes and short interfering RNA siRNA This handy guide ends with a complete list of resources including relevant online databases and software Completely updated with expanded discussion of topics such as RNA folding ribosome structure and antibiotic interactions DNA quadruplexes DNA and RNA protein complexes and short interfering RNA siRNA Includes a complete list of resources including relevant online databases and software Defines technical lingo for novices [Principles of Nucleic Acid Structure](#) Wolfram Saenger, 2013-12-01 New textbooks at all levels of chemistry appear with great regularity Some fields like basic biochemistry organic reaction mechanisms and chemical ther

modynamics are well represented by many excellent texts and new or revised editions are published sufficiently often to keep up with progress in research. However, some areas of chemistry, especially many of those taught at the graduate level, suffer from a real lack of up-to-date textbooks. The most serious needs occur in fields that are rapidly changing. Textbooks in these subjects usually have to be written by scientists actually involved in the research which is advancing the field. It is not often easy to persuade such individuals to set time aside to help spread the knowledge they have accumulated. Our goal in this series is to pinpoint areas of chemistry where recent progress has outpaced what is covered in any available textbooks and then seek out and persuade experts in these fields to produce relatively concise but instructive introductions to their fields. These should serve the needs of one semester or one quarter graduate courses in chemistry and biochemistry. In some cases, the availability of texts in active research areas should help stimulate the creation of new courses.

CHARLES R. CANTOR, New York Preface. This monograph is based on a review on polynucleotide structures written for a book series in 1976. **Nucleic**

**Acid-Protein Recognition** Henry Vogel, 2012-12-02. *Nucleic Acid Protein Recognition* covers the proceedings of a symposium on Nucleic Acid Protein Recognition held at Arden House Harriman Campus of Columbia University on May 30-June 1, 1976. The symposium inaugurated the P. S. Biomedical Sciences Symposia under the sponsorship of the College of Physicians and Surgeons of Columbia University. This book is organized into nine parts encompassing 31 chapters. The opening parts describe the principles of DNA replication and the unique chromatin structure. These parts also examine the physical chemistry of the interactions of melting proteins with nucleic acids. The third part presents the different types of approaches that can be used to study the function of RNA polymerases and the development of a cell-free system that favors Pol II catalyzed transcription from type 2 adenovirus DNA. Parts IV and V deal with the sequence determination of wild-type and mutant repressor and the restriction and modification of DNA endonucleases, while parts VI and VII focus on the recognition of tRNA. Part VIII discusses some significant studies on the assembly of ribosomes and the principles of ribosomal interactions. Lastly, Part IX considers the role of small RNA template in the reaction mechanism of RNA replicases and ribonucleases. This part also surveys the so-called RNase III cleavage of different types of RNA and the structure of nucleic acid protein complexes.

*Topics in Nucleic Acid Structure* Stephen Neidle, 1982-06-18. **Nucleic Acid Sensors and**

**Antiviral Immunity** Dr. Prakash Sambhara, 2012-11-26. The discovery of Toll-like receptors (TLRs) in the late 1990s ushered in a new age of discovery for innate immunity. The importance of TLRs for immunology and biomedical research was recognized with the Nobel Prize for Medicine or Physiology in 2011. The prize was shared by three scientists: Ralph Steinman for the discovery of dendritic cells, which

*Protein-Nucleic Acid Interactions* Phoebe A. Rice, Carl C. Correll, 2008-04-22. The structural biology of protein-nucleic acid interactions is in some ways a mature field and in others in its infancy. High-resolution structures of protein-DNA complexes have been studied since the mid-1980s, and a vast array of such structures has now been determined, but surprising and novel structures still appear quite frequently. High-resolution structures of

protein RNA complexes were relatively rare until the last decade. Propelled by advances in technology as well as the realization of RNA's importance to biology, the number of example structures has ballooned in recent years. New insights are now being gained from comparative studies only recently made possible due to the size of the database as well as from careful biochemical and biophysical studies. As a result of the explosion of research in this area, it is no longer possible to write a comprehensive review. Instead, current review articles tend to focus on particular subtopics of interest. This makes it difficult for newcomers to the field to attain a solid understanding of the basics. One goal of this book is therefore to provide in-depth discussions of the fundamental principles of protein-nucleic acid interactions as well as to illustrate those fundamentals with up-to-date and fascinating examples for those who already possess some familiarity with the field. The book also aims to bridge the gap between the DNA and the RNA views of nucleic acid-protein recognition, which are often treated as separate fields. However, this is a false dichotomy because protein-DNA and protein-RNA interactions share many general principles. This book therefore includes relevant examples from both sides and frames discussions of the fundamentals in terms that are relevant to both. The monograph approaches the study of protein-nucleic acid interactions in two distinctive ways. First, DNA-protein and RNA-protein interactions are presented together. Second, the first half of the book develops the principles of protein-nucleic acid recognition, whereas the second half applies these to more specialized topics. Both halves are illustrated with important real-life examples. The first half of the book develops fundamental principles necessary to understand function. An introductory chapter by the editors reviews the basics of nucleic acid structure. Jen Jacobsen and Jacobsen discuss how solvent interactions play an important role in recognition, illustrated with extensive thermodynamic data on restriction enzymes. Marmorstein and Hong introduce the zoology of the DNA-binding domains found in transcription factors and describe the combinatorial recognition strategies used by many multiprotein eukaryotic complexes. Two chapters discuss indirect readout of DNA sequence in detail. Berman and Lawson explain the basic principles and illustrate them with in-depth studies of CAP, while in their chapter on DNA bending and compaction, Johnson, Stella, and Heiss highlight the intrinsic connections between DNA bending and indirect readout. Horvath lays out the fundamentals of protein recognition of single-stranded DNA and single-stranded RNA and describes how they apply in a detailed analysis of telomere end-binding proteins. Nucleic acids adopt more complex structures. Lilley describes the conformational properties of helical junctions and how proteins recognize and cleave them. Because RNA readily folds due to the stabilizing role of its 2' hydroxyl groups, Li discusses how proteins recognize different RNA folds, which include duplex RNA. With the fundamentals laid out, discussion turns to more specialized examples taken from important aspects of nucleic acid metabolism. Schroeder discusses how proteins chaperone RNA by rearranging its structure into a functional form. Berger and Dong discuss how topoisomerases alter the topology of DNA and relieve the superhelical tension introduced by other processes such as replication and transcription. Dyda and Hickman show how DNA transposases mediate genetic mobility, and Van Duyne

discusses how site specific recombinases cut and paste DNA Horton presents a comprehensive review of the structural families and chemical mechanisms of DNA nucleases whereas Li in her discussion of RNA protein recognition also covers RNA nucleases Lastly Ferr D Amar shows how proteins recognize and modify RNA transcripts at specific sites The book also emphasises the impact of structural biology on understanding how proteins interact with nucleic acids and it is intended for advanced students and established scientists wishing to broaden their horizons

*Computational studies of RNA and DNA* Jirí Šponer, Filip Lankaš, 2006-10-05 This book integrates modern computational studies of nucleic acids ranging from advanced electronic structure quantum chemical calculations through explicit solvent molecular dynamics MD simulations up to mesoscopic modelling with the main focus given to the MD field It gives an equal emphasis to the leading methods and applications while successes as well as pitfalls of the computational techniques are discussed

*Structural Studies of Protein-Nucleic Acid Interaction* Thomas A. Steitz, 1993-09-16 In this 1993 text Nobel Prize winner Professor Steitz reviews the wide ranging research in structural studies of DNA binding proteins and their complexes with DNA The author clearly and concisely describes the uses of techniques in molecular genetics DNA synthesis protein crystallography and nuclear magnetic response

*RNA Structure and Folding* Dagmar Klostermeier, Christian Hammann, 2013-10-14 While structure function relationships of proteins have been studied for a long time structural studies of RNA face additional challenges Nevertheless with the continuous discovery of novel RNA molecules with key cellular functions and of novel pathways and interaction networks the need for structural information of RNA is still increasing This volume provides an introduction into techniques to assess structure and folding of RNA Each chapter explains the theoretical background of one technique and illustrates possibilities and limitations in selected application examples

*Advanced Organic Chemistry of Nucleic Acids* Zoe A. Shabarova, Alexey A. Bogdanov, 2008-07-11 Sequencing cloning transcription these are but a few key techniques behind the current breathtaking advances in molecular biology and biochemistry As these methods continuously diversify biochemists need a sound chemical understanding to keep the pace Chemists beginning working in the molecular biology lab need an introduction to this field from their point of view This book serves both it describes most of the known chemical reactions of nucleosides nucleotides and nucleic acids in sufficient detail to provide the desired background and additionally the fundamental relations between sequence structure and functionality of nucleic acids are presented The first edition of this book which was published in Russian has immediately become a recognized standard reference This second thoroughly revised and updated edition now published in English is likely to achieve a similar position in the international scientific community

**Protein-Nucleic Acids Interactions**, 2013-06-19 Published continuously since 1944 the *Advances in Protein Chemistry and Structural Biology* serial has been a continuous essential resource for protein chemists Covering reviews of methodology and research in all aspects of protein chemistry including purification expression proteomics modeling and structural determination and design each volume brings forth new information about protocols and analysis of proteins while

presenting the most recent findings from leading experts in a broad range of protein related topics Covers reviews of methodology and research in all aspects of protein chemistry Brings forth new information about protocols and analysis of proteins while presenting the most recent findings from leading experts in a broad range of protein related topics Nucleic Acids in Chemistry and Biology G Michael Blackburn, Martin Egli, Michael J Gait, Jonathan K Watts, 2022-06-24 The structure function and reactions of nucleic acids are central to molecular biology and medicine and are crucial for understanding of the ever expanding range of complex biological processes involved which are central to life Revised extended updated and lavishly illustrated this 4th Edition of Nucleic Acids in Chemistry and Biology is a long awaited standard text for teaching and research in nucleic acids science It maintains the close integration of chemistry and biology that characterised the earlier editions and contains a major expansion largely focused on the burgeoning growth of RNA science Written by an international team of leading experts all with extensive teaching experience this 4th Edition provides up to date and extended coverage of the reactions and interactions of RNA and DNA with proteins and drugs A brief history of the discovery of nucleic acids is followed by a molecule based introduction to the structure and biological roles of DNA and RNA and the basics of Genes and Genomes New key chapters are devoted to non coding RNA nucleic acids sequencing nucleic acid therapeutics in vitro evolution and aptamers and protein RNA interactions The text is linked to an extensive list of references to make it a definitive reference source This authoritative volume presents topics in an integrated manner and readable style with full colour illustrations throughout It is ideal for graduate and undergraduate students of chemistry and biochemistry biophysics and biotechnology and molecular biology and medicine It will be a guidebook for new researchers to the field of nucleic acids science Biomedical Index to PHS-supported Research ,1991 *Cumulated Index Medicus* ,1998

*Constitutional Dynamic Chemistry* Mihail Barboiu, 2012-03-06 Constitutional Dynamic Chemistry Bridge from Supramolecular Chemistry to Adaptive Chemistry by Jean Marie Lehn Multistate and Phase Change Selection in Constitutional Multivalent Systems by Mihail Barboiu Dynamic Systemic Resolution by Morakot Sakulsombat Yan Zhang and Olof Ramström Dynamic Combinatorial Self Replicating Systems by Emilie Moulin and Nicolas Giuseppone DCC in the Development of Nucleic Acid Targeted and Nucleic Acid Inspired Structures by Benjamin L Miller Dynamic Nanoplatfoms in Biosensor and Membrane Constitutional Systems by Eugene Mahon Teodor Aastrup und Mihail Barboiu Dynamic Assembly of Block Copolymers by D Qu mener A Deratani und S Lecommandoux Dynamic Chemistry of Anion Recognition by Radu Custelcean Supramolecular Naphthalenediimide Nanotubes by Nandhini Ponnuswamy Artur R Stefankiewicz Jeremy K M Sanders und G Dan Panto Synthetic Molecular Machines and Polymer Monomer Size Switches that Operate Through Dynamic and Non Dynamic Covalent Changes by Adrian Mihail Stadler und Juan Ramirez Reversible Covalent Chemistries Compatible with the Principles of Constitutional Dynamic Chemistry New Reactions to Create More Diversity by Kamel Meguellati und Sylvain Ladame **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992

**Medicinal Chemistry of Nucleic Acids** Lihe Zhang,Zhen Xi,Jyoti Chattopadhyaya,2011-08-30 Complete up to date coverage of the broad area of nucleic acid chemistry and biology Assembling contributions from a collection of authors with expertise in all areas of nucleic acids medicinal chemistry and therapeutic applications Medicinal Chemistry of Nucleic Acids presents a thorough overview of nucleic acid chemistry a rapidly evolving and highly challenging discipline directly responsible for the development of antiviral and antitumor drugs This reliable resource delves into a multitude of subject areas involving the study of nucleic acids such as the new advances in genome sequencing and the processes for creating RNA interference RNAi based drugs to assist pharmaceutical researchers in removing roadblocks that hinder their ability to predict drug efficacy Offering the latest cutting edge science in this growing field Medicinal Chemistry of Nucleic Acids includes In depth coverage of the development and application of modified nucleosides and nucleotides in medicinal chemistry A close look at a large range of current topics on nucleic acid chemistry and biology Essential information on the use of nucleic acid drugs to treat diseases like cancer A thorough exploration of siRNA for RNAi and the regulation of microRNA non coding RNA ncRNA a newly developing and exciting research area Thorough in its approach and promising in its message Medicinal Chemistry of Nucleic Acids probes the new domains of pharmaceutical research and exposes readers to a wealth of new drug discovery opportunities emerging in the dynamic field of nucleic acid chemistry *Index Medicus*,2001-07 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings



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