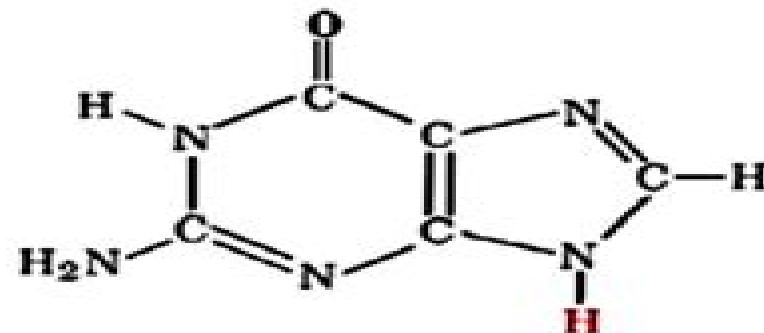
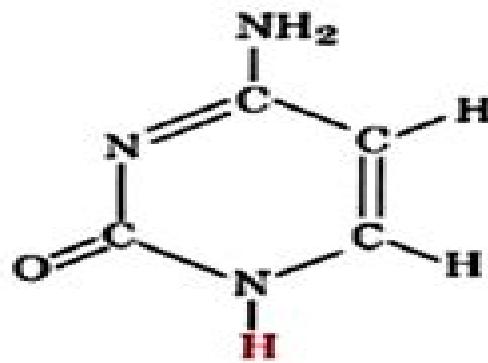


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**(DNA and RNA)**

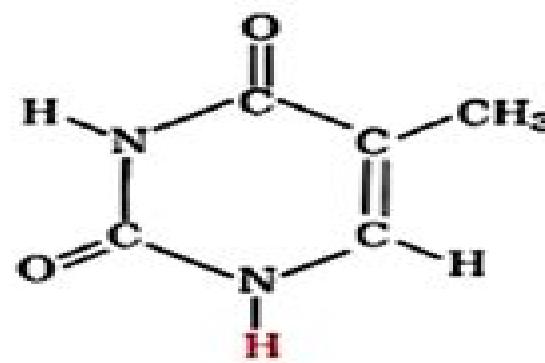


**Guanine (G)**  
**(DNA and RNA)**

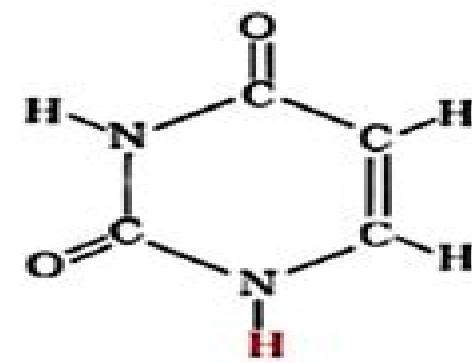
### Purines



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



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



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

### Pyrimidines

# Nucleic Acid Structure And Recognition

王立华,王立华

## **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 **Nucleic Acids in Innate Immunity** Ken J. Ishii, Shizuo Akira, 2008-05-22 Until recently innate immunity was regarded as a relatively nonspecific system designed to engulf and destroy pathogens However new studies

show that the innate immune system is highly developed in its ability to discriminate between self and foreign entities Understanding this mechanism can lead to therapeutic strategies based on manipulation **Biomedical Index to PHS-supported Research**, 1988 **Nucleic Acid Structure and Interactions** Haihong Wu, 2004 *Molecular Structure and Life; Molecular Recognition of Nucleic Acids* 1990, 1992 **Cumulated Index Medicus**, 1998 *Structural Studies of RNA Recognition by the Splicing Regulator Sex-lethal* Scott Michael Crowder, 1999 **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 part 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 of 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 *Comprehensive Supramolecular Chemistry: Supramolecular reactivity and transport : bioinorganic systems*, 1996 **RNA Folding Motifs and Recognition in Nucleolin/pre-rRNA Complexes and Telomerase** Lawrence David Finger (Jr.), 2004

**Protein-Nucleic Acid Interactions** Phoebe A. Rice, Carl C. Correll, 2008-05-22 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 transposes 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 emphasizes 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.

**Protein and Nucleic Acid Structure and Dynamics** Jonathan King, 1985    **RNA Recognition**, 2019-06-23 RNA Recognition Volume 623, the latest volume in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field. This updated volume

covers a variety of topics including The Preparation of cooperative RNA recognition complexes for crystallographic structural studies Methods for thermal denaturation studies of fluorogenic aptamers Dynamic combinatorial chemistry as a rapid fragment based approach to RNA targeted compound discovery Using a click chemistry assay to identify natural product ligands for pre microRNAs Lessons from exploration of chemical and structural small molecule RNA space Using ligand observed NMR to study RNA small molecule interactions and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Includes the latest information on RNA Recognition    **Nucleic Acid-protein Recognition** Henry James Vogel,1977    *Studies on DNA Recognition by Structure-selective Nucleases Using Molecular Dynamics Simulations and Molecular Docking* Mahadevan Seetharaman,2002    Nature Sir Norman Lockyer,1894    Twentythird Symposium on Nucleic Acids Chemistry ,1996    **Nucleic Acid Research** Kiyoshi Mizobuchi,Itaru Watanabe,James D. Watson,1983 Nucleic Acid Research Future Development reflects the exchange of ideas and information among the participants of The Future of Nucleic Acid Research symposium held at Kyoto on December 1981 This publication aims to extend the ideas presented in the symposium and to provide facts that can answer various scientific questions particularly in molecular biology The book is divided into five parts It explains the structure of DNA and chromosome and the interaction of nucleic acids with proteins It also discusses the gene organization of prokaryotes as well as the gene expressions i

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