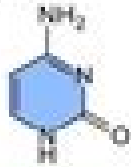
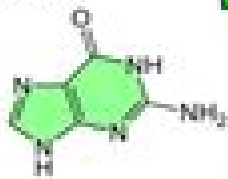


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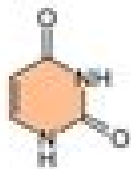
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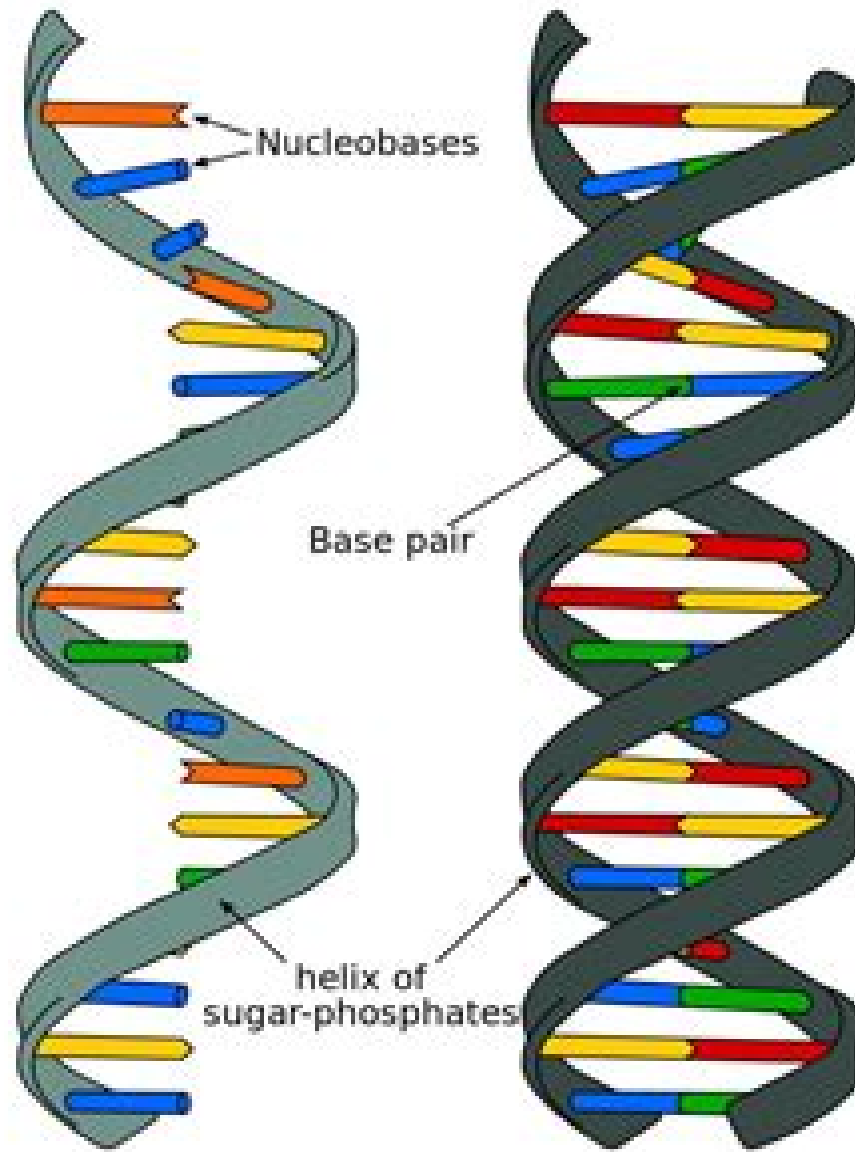
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of RNA



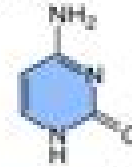
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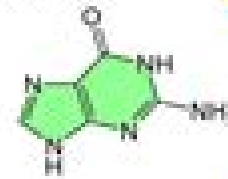
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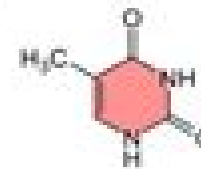
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Nucleobases
of DNA

Nucleic Acid Structure

Stephen Neidle



Nucleic Acid Structure:

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 thermodynamics 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 acids and nucleotides U. Satyanarayana, 2014-11-07. Nucleic acids and nucleotides. *Nucleic Acid Structure* W. Guschlbauer, 2012-12-06. Teaching a course on nucleic acid structure is a hazardous undertaking, especially if one has no continuous teaching obligations. I still have done it on several occasions in various French universities when colleagues suffering from administrative overwork and excessive teaching obligations had asked me to do so. This was generally done with a pile of notes and a dozen slides and I always regretted that no small, concise, specialized book on nucleic acid structure for students at the senior or beginning graduate level existed. Every year the lecture notes became more and more voluminous with some key reprints intermingled. Everything changed when in the spring of 1973 I received an invitation to teach such a course under the UNESCO OAS Molecular Biology Program at the Universidad de Chile in Santiago during October 1973. I had accepted rather enthusiastically but soon discovered that it would be necessary to produce a photocopied syllabus for the students. This was the first premanuscript of this book. For nonscientific reasons the course was first canceled and then postponed until December 1973. Nearly a year later the course in slightly amended form was presented at the Lomonosov State University in Moscow. *Nucleic Acids in Chemistry and Biology* G. Michael Blackburn, Michael J. Gait, 1996. Since the discovery of the DNA double helix in 1953, nucleic acids have formed the central theme of much of contemporary molecular science. Recent mastery of nucleic acids synthesis has been the key to the establishment of the biotechnology industry and our improving knowledge of nucleic acid structures and interactions is considerably influencing the design of novel drugs. The first edition of this book responded to the pressing need for a single volume that integrated the chemistry and biology of the nucleic acids in an introductory yet authoritative text. This second

and completely updated edition which includes a new chapter on techniques applied to nucleic acids sets the basics of the nucleic acids in the context of the expanding horizons set by modern structural biology RNA enzymology drug discovery and biotechnology *Topics in Nucleic Acid Structure* Stephen Neidle,1987-06-18 *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 Acid Structure* Stephen Neidle,1987 *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 *Topics in Nucleic Acid Structure* Stephen Neidle,1982-06-18

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 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

Nucleic Acids in Chemistry and Biology G. Michael Blackburn, 2006 Discussing both the chemistry and biology of nucleic acids this edition also provides coverage of nucleic acid chemistry and reactions and interactions with proteins and drugs

The Biochemistry of the Nucleic Acids R.L.P. Adams, J.T. Knowler, D.P. Leader, 2013-04-18 When the first edition of this book was published in 1950 it predated the publication of the double helical structure of DNA by three years It is not therefore surprising that nothing of the original book remains in the current edition Indeed such is the pace of change in the field of nucleic acids that less than 50% of material incorporated into the 1986 edition has been retained The book aims at the advanced undergraduate and at graduates that are undertaking course work or requiring an in depth background for their research It also aims to provide the established scientist with a single text that permits updating across the whole field from DNA structure replication and repair through gene expression and its control to protein synthesis Every chapter is accompanied by thorough referencing that enables the reader to evaluate personally the data and methodology that cannot be included in the text In an attempt to keep this list within bounds references are limited to about ten per page and to accommodate the more recent literature many of the older references have been left out in this latest edition

Nucleic Acids Victor A. Bloomfield, Donald M. Crothers, Ignacio Tinoco, 2000-04-17 Providing a comprehensive account of the structures and physical chemistry properties of nucleic acids with special emphasis on biological function this text has been organized to meet the needs of those who have only a basic understanding of physical chemistry and molecular biology

RNA Structure Prediction Risa Karakida Kawaguchi, Junichi Iwakiri, 2023-01-27 This book explores recent progress in RNA secondary tertiary structure prediction and its application from an expansive point of view Because of advancements in experimental protocols and devices the integration of new types of data as well as new analysis techniques is necessary and this volume discusses additional topics that are closely related to RNA structure prediction such as the detection of structure disrupting mutations high throughput structure analysis and 3D structure design Written for the highly successful Methods in Molecular Biology series chapters feature the kind of detailed implementation advice that leads to quality research results Authoritative and practical RNA Structure Prediction serves as a valuable guide for both experimental and computational RNA researchers

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

Principles of Nucleic Acid Structure Stephen Neidle, Mark Sanderson, 2021-10-15
Principles of Nucleic Acid Structure Second Edition provides the most complete and concise summary of underlying principles and approaches to studying nucleic acid structure including discussions of X ray crystallography NMR molecular modelling and databases The book s focus is on a survey of structures that are especially important for biomedical research and pharmacological applications This updated edition includes the latest advances relevant to recognition of DNA and RNA by small molecules and proteins including sections on RNA folding ribosome structure and antibiotic interactions DNA quadruplexes DNA and RNA protein complexes and short interfering RNA siRNA This reference is a must have for those seeking an authoritative comprehensive and up to date source on all aspects of nucleic acid structure from basic first principles to details of recent research results Completely updated with an expanded section on protein nucleic acid interactions that reflects major increases in our knowledge Defines technical terms for novices Includes a complete list of resources including relevant online databases and software as well as useful websites

Nucleic acid structure Stephen Neidle, 1987

Nucleic Acids in Chemistry and Biology G Michael Blackburn, Michael J Gait, David Loakes, David M Williams, 2015-11-09 The structure function and reactions of nucleic acids are central to molecular biology and are crucial for the understanding of complex biological processes involved Revised and updated Nucleic Acids in Chemistry and Biology 3rd Edition discusses in detail both the chemistry and biology of nucleic acids and brings RNA into parity with DNA Written by leading experts with extensive teaching experience this new edition provides some updated and expanded coverage of nucleic acid chemistry reactions and interactions with proteins and drugs A brief history of the discovery of nucleic acids is followed by a molecularly based introduction to the structure and biological roles of DNA and RNA Key chapters are devoted to the chemical synthesis of nucleosides and nucleotides oligonucleotides and their analogues and to analytical techniques applied to nucleic acids The text is supported by an extensive list of references making it a definitive reference source This authoritative book presents topics in an integrated manner and readable style It is ideal for graduate and undergraduates students of chemistry and biochemistry as well as new researchers to the field

Principles of Nucleic Acid Structure H. Saedler, Wolfram Saenger, 1983

Proteins and Nucleic Acids Max F. Perutz, 1962

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