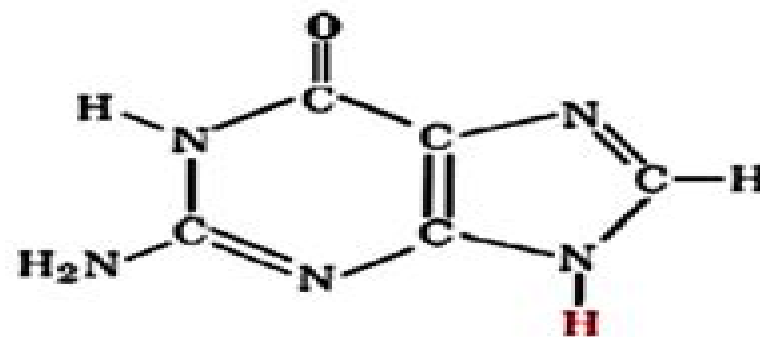
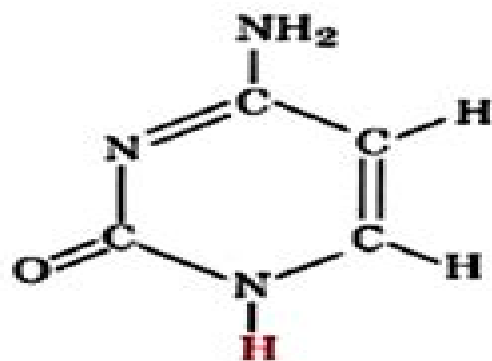


Adenine (A)
(DNA and RNA)

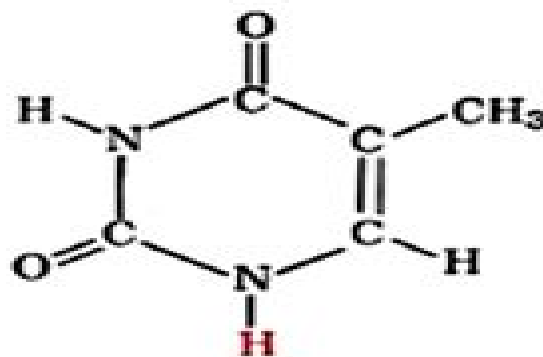


Guanine (G)
(DNA and RNA)

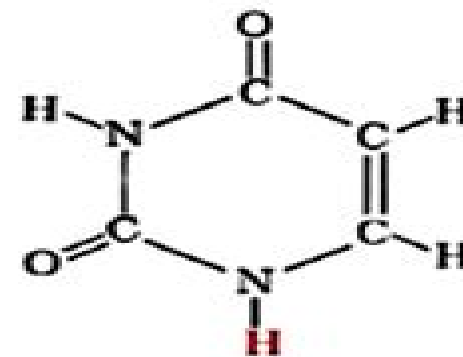
Purines



Cytosine (C)
(DNA and RNA)



Thymine (T)
(DNA only)



Uracil (U)
(RNA only)

Pyrimidines

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Structures of Nucleic Acids

Principles Of Nucleic Acid Structure

John R. Helliwell



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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, 1984. *Principles of Nucleic Acid Structure* H. Saedler, Wolfram Saenger, 1983. **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

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Nucleic Acid Structure Stephen Neidle,1987 *Basic Principles in Nucleic Acid Chemistry V1* Paul O.P.

Ts'o,2012-12-02 *Basic Principles in Nucleic Acid Chemistry Volume I* provides information pertinent to the fundamental aspects of nucleic acids This book discusses the development of the basic principles in nucleic acid research that will serve as a foundation for further advancement in nucleic acid research Organized into six chapters this volume begins with an overview of the history of the scientific study of nucleic acid as a genetic material This text then examines the utility of the analogs of the naturally occurring nucleic acid components as biochemical tools and as therapeutic agents Other chapters consider mass spectrometry that deals with the production and chemistry of ions in the vapor phase This book discusses as well the various aspects of the excited states of the nucleic acids The final chapter deals with the systematic study of the physiochemical properties of the monomeric units of nucleic acid This book is a valuable resource for molecular biologists scientists and research workers *Basic Principles in Nucleic Acid Chemistry V2* Paul O.P. Ts'o,2012-12-02 *Basic Principles in Nucleic Acid Chemistry Volume II* presents the significant progress in nucleic acid research and its contribution and influence on various aspects of human life This book contains five chapters and begins with the susceptibility of nucleic acids towards attack by chemical reagents whose reactions with polynucleotides have been studied This topic is followed by a presentation of experimental techniques used to study the properties of nucleic acids The following chapter discusses some basic features embodied in the polyribo and poly deoxyribonucleotide backbone chains the possibility of rotation around backbone bonds in the random single stranded form and the short and long range interactions in idealized and real chains This chapter also looks into the thermodynamic and polyelectrolyte aspects of nucleic acid behavior A chapter describes the special features of the third class of DNA namely closed duplex DNA in which covalent chain scissions are absent The last chapter examines the intrinsic properties and the interaction of the dimers and oligomers with special emphasis on the influence of the phosphodiester linkages on the conformation and interaction of these short segments of nucleic acids This book is of great value to workers in biomedical research and to higher level biochemistry instructors [Principles of Nucleic Acid Structure](#) Martin Egli,Wolfram Saenger,2011-10-14 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

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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 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

Nucleic acid structure Stephen Neidle, 1987

[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

Topics in Nucleic Acid Structure Stephen Neidle, 1981-06-18

[Biomolecular and Bioanalytical Techniques](#) Vasudevan Ramesh, 2019-03-08 An essential guide to biomolecular and bioanalytical techniques and their applications Biomolecular and Bioanalytical Techniques offers an introduction to and a basic understanding of a wide range of biophysical techniques The text takes an interdisciplinary approach with contributions from a panel of distinguished experts With a focus on research the text comprehensively covers a broad selection of topics drawn from contemporary research in the fields of chemistry and biology Each of the internationally reputed authors has contributed a single chapter on a specific technique The chapters

cover the specific techniques background theory principles technique methodology protocol and applications The text explores the use of a variety of analytical tools to characterise biological samples The contributors explain how to identify and quantify biochemically important molecules including small molecules as well as biological macromolecules such as enzymes antibodies proteins peptides and nucleic acids This book is filled with essential knowledge and explores the skills needed to carry out the research and development roles in academic and industrial laboratories A technique focused book that bridges the gap between an introductory text and a book on advanced research methods Provides the necessary background and skills needed to advance the research methods Features a structured approach within each chapter Demonstrates an interdisciplinary approach that serves to develop independent thinking Written for students in chemistry biological medical pharmaceutical forensic and biophysical sciences *Biomolecular and Bioanalytical Techniques* is an in depth review of the most current biomolecular and bioanalytical techniques in the field

Nucleic Acids and Molecular Biology Fritz Eckstein, David M. J. Lilley, 2012-12-06 A wide range of topics are covered including articles on nucleic acid structure through their interactions with proteins to the control of gene expression A number of authors address the subject of RNA including the difficult but important subject of its chemical synthesis the complexities of its structures and the mechanisms of transcript splicing The probing of DNA structure is reviewed in papers on the application of hydroxyl radical and 1,10-phenanthroline copper cleavages A number of important DNA protein interactions are discussed including DNA polymerase the tryptophan and deoR repressors and the resolvase enzymes which cleave Holliday junctions in recombination Gene transcription is also covered from the points of view of DNA methylation mammalian ribosomal and avian lysozyme genes and the control of transcription in the proto oncogene c-fos Finally the plant kingdom has not been forgotten with articles on development and transposition in plants

Physical Chemistry for the Biosciences, second edition Raymond Chang, Charles M. Lovett, 2025-02-25 Physical Chemistry for the Biosciences has been optimized for a one semester course in physical chemistry for students of biosciences or a course in biophysical chemistry Most students enrolled in this course have taken general chemistry organic chemistry and a year of physics and calculus Fondly known as Baby Chang this best selling text is back in an updated second edition for the one semester physical chemistry course Carefully crafted to match the needs and interests of students majoring in the life sciences Physical Chemistry for the Biosciences has been revised to provide students with a sophisticated appreciation for physical chemistry as the basis for a variety of interesting biological phenomena Major changes to the new edition include Discussion of intermolecular forces in chapter Detailed discussion of protein and nucleic acid structure providing students with the background needed to fully understand the biological applications of thermodynamics and kinetics described later in the book Expanded and updated descriptions of biological examples such as protein misfolding diseases photosynthesis and vision

Translational Cardiometabolic Genomic Medicine Annabelle Rodriguez-Oquendo, 2015-09-07 Translational Cardiometabolic Genomic Medicine edited by Dr

Annabelle Rodriguez Oquendo is an important resource to postgraduate medical dental and graduate students postdoctoral fellows basic scientists and physician scientists seeking to understand and expand their knowledge base in the field of genomic medicine as it is applied to cardiometabolic diseases This handbook integrates cutting edge experimental approaches such as chromatin immunoprecipitation paired end tagging CHIA PET to population studies such as the Multi Ethnic Study of Atherosclerosis It encompasses a range of book chapters that highlight bioinformatic approaches to better understanding functionality of the noncoding regions of the human genome to the use of molecular diagnostic testing in predicting increased risk of cardiovascular diseases Where applicable this reference also includes chapters related to therapeutic options specifically aligned to molecular targets Provides comprehensive research on translational genomic medicine Explains state of the art genome editing for stem cells and mouse models with significant relevance to human cardiometabolic disease Includes discussions on the functional effects of single nucleotide polymorphisms and cardiometabolic diseases stratified by sex and race Encompasses a range of book chapters that highlight bioinformatic approaches to better understanding functionality of the noncoding regions of the human genome *Informational Biopolymers of Genes and Gene Expression* R.D. Blake, 2005-03-23 This new text examines the biophysics and biochemistry of nucleic acids and proteins carving out the dynamic interface between chemistry and molecular biology and providing a detailed picture of nucleic acids and proteins their structures biological properties and origins and evolution

Macromolecular Crystallography with Synchrotron Radiation John R. Helliwell, 1992 This highly illustrated monograph provides a comprehensive treatment of the study of the structure and function of the molecules of life proteins nucleic acids and viruses using synchrotron radiation and crystallography Beginning with chapters on the fundamentals of macromolecular crystallography and macromolecular structure the book goes on to review the sources and properties of synchrotron radiation instrumentation and monochromatic data collection There are also chapters on the Laue method on diffuse X ray scattering and on variable wavelength anomalous dispersion methods The book concludes with a description and survey of applications including studies at high resolution the use of small crystals the study of large unit cells and time resolved crystallography particularly of enzymes Appendices are provided that present essential information for the synchrotron user as well as information about synchrotron facilities currently available [International Tables for Crystallography, Volume F](#) Eddy Arnold, Daniel M. Himmel, Michael G. Rossmann, 2012-03-05 [International Tables for Crystallography, Volume F](#) is an expert guide to macromolecular crystallography for the structural biologist It was commissioned by the International Union of Crystallography in recognition of the extraordinary contributions that knowledge of macromolecular structure has made and will make to the analysis of biological systems from enzyme catalysis to the workings of a whole cell The volume covers all stages of a crystallographic analysis from the preparation of recombinant proteins through crystallization diffraction data collection phase determination structure validation and structure analysis

Although the volume is written for experienced scientists it is recognized that the reader is more likely to be a biologist interested in structure than a classical crystallographer interested in biology Thus there are chapters on the fundamentals history and current perspectives of macromolecular crystallography as well as on useful programs and databases such as the Protein Data Bank Each chapter is written by one or more internationally recognized experts This second edition features 19 new articles and many articles from the first edition have been revised The new articles cover topics such as standard definitions for quality indicators expression of membrane proteins protein engineering high throughput crystallography radiation damage merohedral twinning low resolution ab initio phasing robotic crystal loading whole cell X ray diffraction imaging and halogen interactions in biological crystal structures There are also new articles on relevant software including software for electron microscopy These enhancements will ensure that Volume F continues to be a key reference for macromolecular crystallographers and structural biologists More information on the series can be found at <http://it.iucr.org>

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