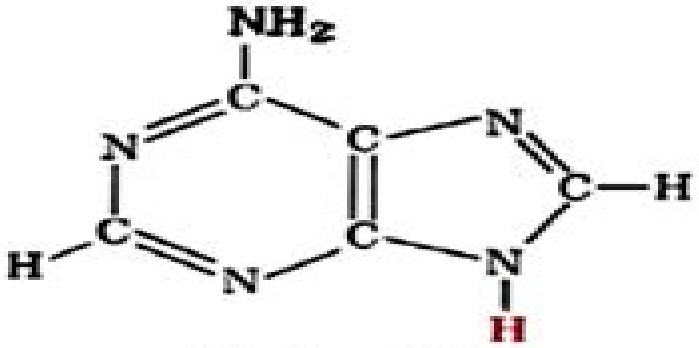
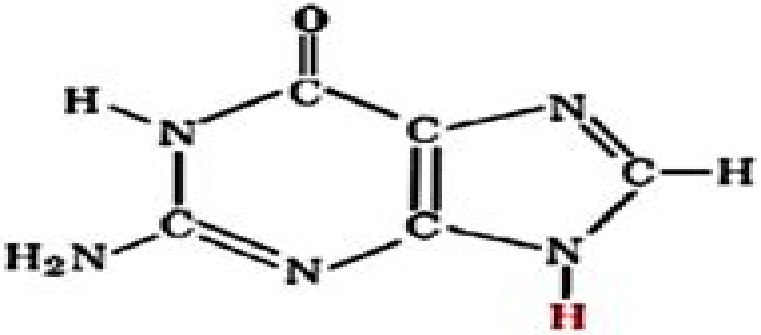
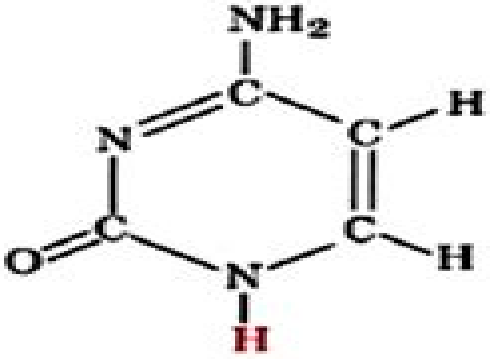


Adenine (A)
(DNA and RNA)

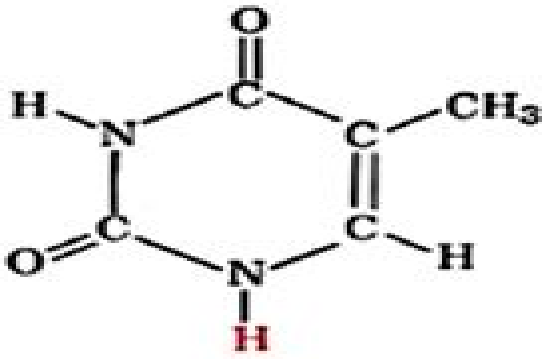


Guanine (G)
(DNA and RNA)

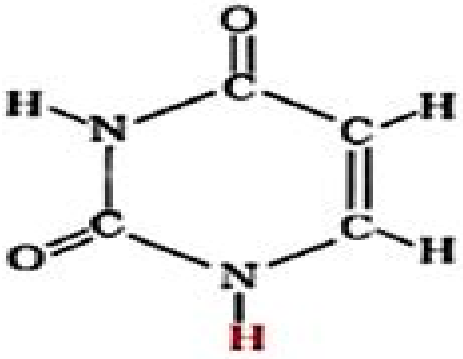
Purines



Cytosine (C)
(DNA and RNA)



Thymine (T)
(DNA only)



Uracil (U)
(RNA only)

Pyrimidines

Structures of Nucleic Acids

Principles Of Nucleic Acid Structure

Stephen Neidle,Mark Sanderson

Principles Of 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 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 grad uate 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

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* 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 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 **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 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 grad uate 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 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 **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 Nuclear 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 **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

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