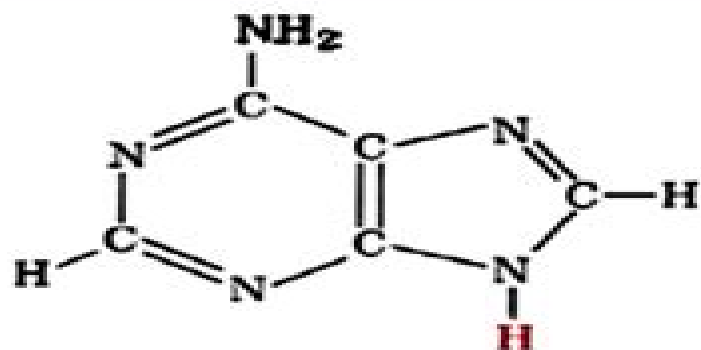
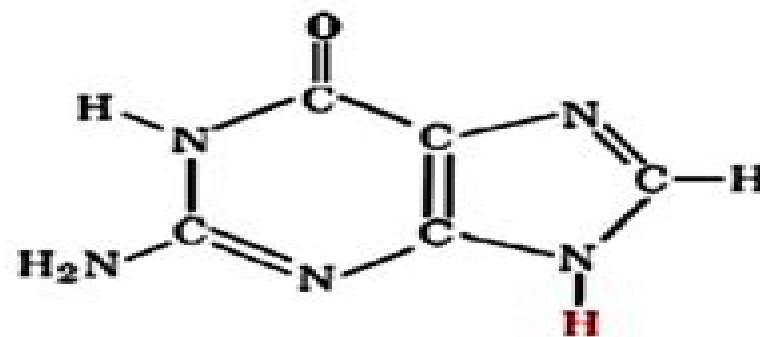


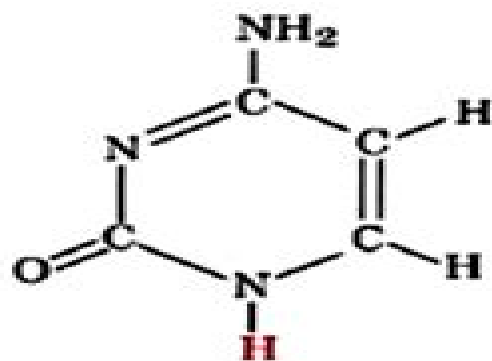


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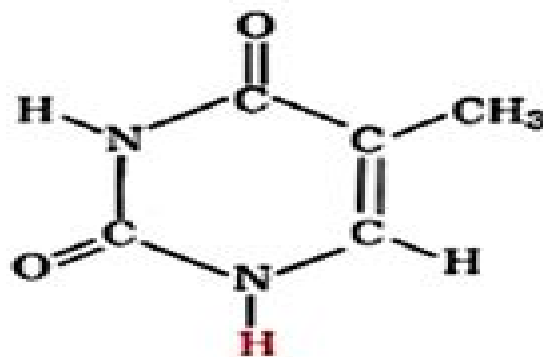


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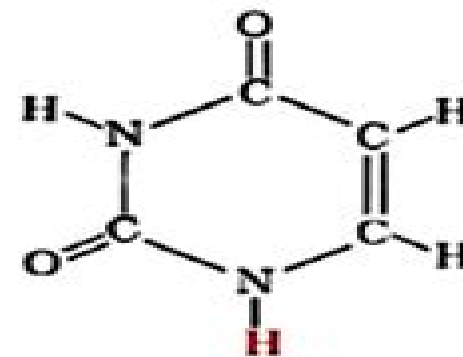
Purines



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(DNA only)



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Structures of Nucleic Acids

Principles Of Nucleic Acid Structure

Paul O.P. Ts'o



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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.

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.

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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,1981-06-18

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 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 Design** Fouad Sabry,2025-03-14 Unlock the potential of nucleic acid design in the rapidly evolving field of DNA nanotechnology This book is an essential resource for professionals researchers students and enthusiasts eager to explore how nucleic acids can be engineered for groundbreaking applications Delve into the principles and techniques shaping molecular structures and driving innovation in nanotechnology and synthetic biology Chapters Brief Overview 1 Nucleic acid design Learn how tailored sequences drive structural formation and nanotechnological functions 2 Denaturation biochemistry Explore the thermal and chemical factors influencing nucleic acid stability 3 Nucleic acid structure prediction Discover computational tools predicting secondary and tertiary formations 4 Triplestranded DNA Understand the mechanics and applications of threestranded nucleic acid structures 5 Base pair Examine the fundamental interactions forming the genetic code and structural frameworks 6 DNA nanotechnology Investigate how DNA is manipulated to create selfassembling

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