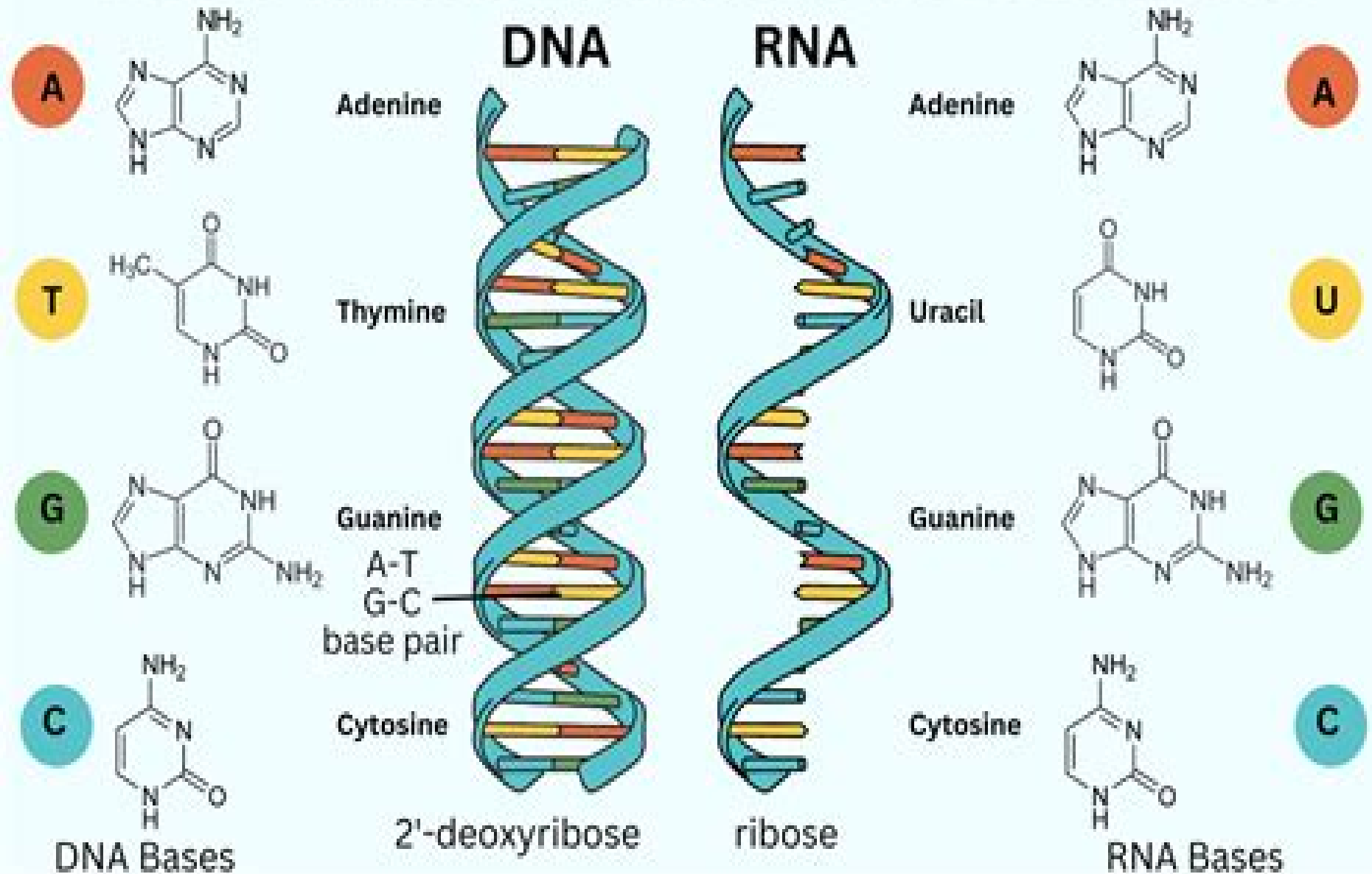


Nucleic Acids

The two classes of nucleic acids are DNA and RNA.



Biochemistry Of Nucleic Acids

Fritz Eckstein Eckstein



Biochemistry Of Nucleic Acids:

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 and nucleotides U Satyanarayana,2014-11-07 Nucleic acids and nucleotides Nucleic acids and nucleotides

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

Davidson's The Biochemistry of the Nucleic Acids James Norman Davidson,Roger Lionel Poulter Adams,1976

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 in Chemistry and Biology G Michael Blackburn,Michael J Gait,David Loakes,David M Williams,2007-10-31 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

The biochemistry of the Nucleic Acids

J.N. Davidson,2012-12-02 The Biochemistry of the Nucleic Acids provides an elementary outline of the main biochemical features of nucleic acids and nucleoproteins The book describes the occurrence and biological functions of nucleic acids their chemical constituents and catabolism This text is organized into 14 chapters and begins with a historical overview from the discovery of the nucleic acids to their isolation and characterization The discussion then shifts to bacterial transforming factors and transduction phenomena along with the genetic function and metabolic stability of DNA the chemical composition of the cell nucleus and the Feulgen nuclear reaction The reader is methodically introduced to the structure and biosynthesis of RNA and DNA nucleic acids found in viruses and biosynthesis of mononucleotides An account of nucleases and related enzymes is also given A chapter on the precise mechanism by which nucleic acids are broken down in the cell concludes the book This book is intended for students of biochemistry chemists and biologists

The Biochemistry of the Nucleic Acids

Roger Lionel Poulter Adams,John T. Knowler,David P. Leader,1986-10-16 When the first edition of this book was published in 1950 it set out to present an elementary outline of the state of knowledge of nucleic acid biochemistry at that time and it was the first monograph on the subject to appear since Levene's book on Nucleic Acids in 1931 The fact that a tenth edition is required after thirty five years and that virtually nothing of the original book has been retained is some measure of the speed with which knowledge has advanced in this field As a result of this vast increase in information it becomes increasingly difficult to fulfil the aims of providing an introduction to nucleic acid biochemistry and satisfying the requirements of advanced undergraduates and postgraduates in biochemistry genetics and molecular biology We have attempted to achieve these aims by concentrating on those basic aspects not normally covered in the general biochemistry textbooks and by providing copious references so that details of methodology can readily be retrieved by those requiring further information The first seven editions emerged from the pen of J N Davidson who died in September 1972 shortly after completing the seventh edition The subsequent editions have been produced by various colleagues who have tried to retain something of the character and structure of the earlier editions while at the same time introducing new ideas and concepts and eliminating some of the more out dated material

The Biochemistry of the Nucleic Acids James Norman Davidson,1972 The

biochemistry of the Nucleic Acids *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

Chemistry of Nucleic Acids Harri Lönnberg, 2020-08-10 Life in all its forms is based on nucleic acids which store and transfer genetic information The book addresses the main aspects of synthesis hydrolytic stability solution equilibria of nucleosides and nucleotides as well as base modifications of nucleic acids The author further describes their structural analogues used as therapeutic drugs such as antivirals and anticancer agents and prodrug strategies of nucleotides

Handbook of Biochemistry Gerald D Fasman, 2019-08-08 This volume contains information on the nucleotide composition of bacterial DNA Eukaryotic protists etc Nearest neighbour frequencies in DNA repeated and unique sequences in eukaryotes nucleic acid sequences in bacteriophage chloroplasts mitochondria kinetoplasts satellites and TRNA Information on the physical properties of RNA atomic coordinates of DNA DNA Also included in this volume is information on enzymes involved in nucleic acid function

Nucleic Acids and Molecular Biology Fritz Eckstein Eckstein, 2012-12-06 Molecular biology is one of the most rapidly developing and at the same time most exciting disciplines The key to molecular biology lies in the understanding of nucleic acids their structure function and interaction with proteins Nucleic Acids and Molecular Biology keeps scientists informed of the explosively growing information and complies with the great interest in this field by offering a continued high standard of review A substantial part of this volume has been devoted to the analysis of different aspects of nucleic acid protein interactions including RNA protein interaction

The Biochemistry of the Nucleic Acids Roger Lionel Poulter Adams, 1981 *Biochemistry of Nucleic Acids II* Brian Frederic Carl Clark, 1978

Nucleic Acids Shawn Doonan, 2004 Although targeted specifically at undergraduate chemistry students Nucleic Acids will also be of interest to undergraduates studying biochemistry

The Biochemistry of the Nucleic Acids James Norman Davidson, 1965

Radical and Radical Ion Reactivity in Nucleic Acid Chemistry Michael D. Greenberg, 2009-10-05 Comprehensive coverage of radical reactive intermediates in nucleic acid chemistry and biochemistry The Wiley Series on Reactive Intermediates in Chemistry and Biology investigates reactive intermediates from the broadest possible range of disciplines The contributions in each volume offer readers fresh insights into the latest findings emerging applications and ongoing research in the field from a diverse perspective The chemistry and biochemistry of reactive intermediates is central to organic chemistry and biochemistry and underlies a significant portion of modern synthetic chemistry Radical and Radical Ion Reactivity in Nucleic Acid Chemistry provides the only comprehensive review of the chemistry and biochemistry of nucleic acid radical intermediates With contributions by world leaders in the field the text covers a broad range of topics including A discussion of the relevant theory Ionization of DNA Nucleic acid sugar radicals Halopyrimidines Oxidative reductive and low energy electron transfer Electron affinity sensitizers Photochemical generative

of reactive oxygen species Reactive nitrogen species Eneiyne rearrangements Phenoxyl radicals A unique compilation on the cutting edge of our understanding Radical and Radical Ion Reactivity in Nucleic Acid Chemistry provides an unparalleled resource to student and professional researchers in such fields as organic chemistry biochemistry molecular biology and physical chemistry as well as the industries associated with these disciplines **Handbook of Biochemistry** Gerald D

Fasman,2019-08-08 The section of this handbook has been dividing into two volumes the first volume contains information relating to purines pyrimidine and nucleoside oligonucleotide polynucleotides and their derivatives Both ribo and deoxyribo compounds are listed also The second volume will contain the remaining material similar to Volume 1 and material more relative to genetic and biological aspects such as enzymes involved in nucleic acid function protein synthesis linkage maps

Nucleic Acids and Proteins in Plants II Benno Parthier,Donald Boulter,2012-12-06 With contributions by numerous experts

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