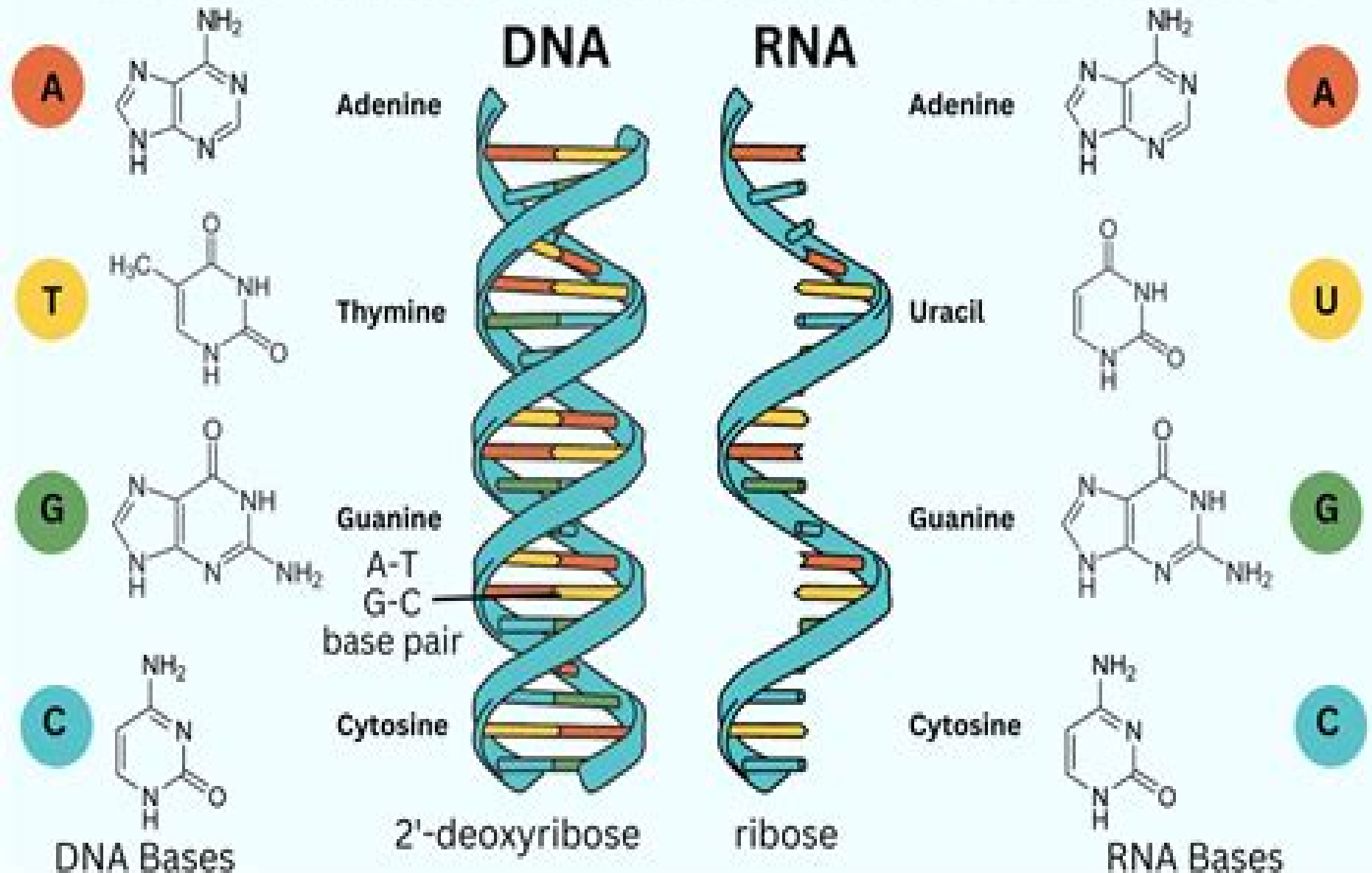


# Nucleic Acids

The two classes of nucleic acids are DNA and RNA.



# The Biochemistry Of The Nucleic Acids

**G. Michael Blackburn**



## **The Biochemistry Of The 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

*The Biochemistry of the Nucleic Acids* R. L. Adams,2012-12-06 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

*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

**The Biochemistry of the Nucleic Acids** Roger Lionel Poulter Adams,1981

**The Biochemistry of the Nucleic Acids** James Norman Davidson,1976 *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** R. L. Adams, 1986-10-16 **Davidson's The Biochemistry of the Nucleic Acids** James Norman Davidson, Roger

Lionel Poulter Adams, 1976 *Discussion on Current Problems in the Biochemistry of Nucleic Acids* U.S. Atomic Energy Commission, 1951 *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

**Proteins and Nucleic Acids** Abraham Marcus, 2014-05-10 *The Biochemistry of Plants A Comprehensive Treatise Volume 6 Proteins and Nucleic Acids* provides information pertinent to the nucleic acids and the regulation of the expression of this information This book presents the processes by which the nucleic acids are finally expressed as proteins Organized into 14 chapters this volume begins with an overview of the overall structure of eukaryotic genomes with emphasis on higher plant DNA This text then examines the enzymes involved in the cleavage and degradation of DNA Other chapters provide a critical assessment of eukaryotic nucleic acid polymerases This book discusses as well some examples from plant mitochondrial systems The final chapter deals with two special areas of plant biology where the expression of the nucleic acids is seen in striking relief the formation of plant tumors and the growth and expression of plant viruses This book is a valuable resource for plant biochemists molecular biologists senior graduate students and research workers

*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

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, Proteins and Carbohydrates** F. Korte, 2012-12-02. *Methodicum Chemicum* Volume 11. Natural Compounds Part 1. Nucleic acids, Proteins and Carbohydrates is devoted to the methods of structural determinations and syntheses of natural products. This text contains four chapters that include a short discussion of the principles of well-proved analytic procedures. It primarily describes the chemistry and biochemistry of nucleic acids, proteins, carbohydrates and lipids. Other general topics covered include the components, chemical synthesis, sequences, primary structure and classification of these macromolecules. This book is of value to chemists and scientists who work in associated areas including medicine.

**Inhibitors of Nucleic Acid Synthesis** H. Kersten, W. Kersten, 2013-11-11. During the last decade, physical and chemical methods have improved rapidly, a fact which allowed the mode of action of antibiotics to be studied and many biochemically oriented scientists have devoted their research to the following questions: 1. What is the metabolic pathway that is inhibited selectively and what are the target molecules within a sensitive cell? 2. What are the relationships between the chemical structure of an antibiotic and the physicochemical properties of the sensitive molecule? 3. Why and how far is the action selective? 4. Is it possible to correlate the interaction with the target molecule with the particular biological activities observed? This monograph deals with those antibiotics which interfere with the biosynthesis of nucleic acids. The idea was to provide an insight into how to investigate the preceding questions experimentally and to solve as yet unresolved problems rather than to give a review of the current state of knowledge. Although the biochemistry of nucleic acid synthesis is known in general, the precise molecular mechanisms by which deoxyribonucleic acid is replicated or transcribed has still to be clarified. For this reason it is not yet possible to describe the molecular mechanisms by which the inhibitors of nucleic acid and protein synthesis exhibit their effects. The fact that the inhibitors of nucleic acid and protein synthesis themselves served as useful tools to obtain an insight into the mechanisms of replication, transcription and translation was one of the most exciting discoveries in this field.

**Handbook of Biochemistry** Gerald D. Fasman, 2019-08-08. The section of this handbook has been divided 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      Chemical Biology of Nucleic Acids Volker A. Erdmann, Wojciech T. Markiewicz, Jan Barciszewski, 2014-04-22 This volume contains 29 engrossing chapters contributed by worldwide leading research groups in the field of chemical biology Topics include pre biology the establishment of the genetic code isomerization of RNA damage of nucleobases in RNA the dynamic structure of nucleic acids and their analogs in DNA replication extra and intra cellular transport molecular crowding by the use of ionic liquids new technologies enabling the modification of gene expression via editing of therapeutic genes the use of riboswitches the modification of mRNA cap regions new approaches to detect appropriately modified RNAs with EPR spectroscopy and the use of parallel and high throughput techniques for the analysis of the structure and new functions of nucleic acids This volume discusses how chemistry can add new frontiers to the field of nucleic acids in molecular medicine biotechnology and nanotechnology and is not only an invaluable source of information to chemists biochemists and life scientists but will also stimulate future research      **Discussion on Current Problems in the Biochemistry of Nucleic Acids** United States. Atomic Energy Commission Research Conference for Biology and Medicine, 1951      **Handbook Biochemistry Sect B Nucleic Acids** Gerald D. Fasman, 1976-01-01

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