

NUCLEIC ACIDS

STRUCTURES, PROPERTIES, AND FUNCTIONS

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Nucleic Acids Structures Properties Fu

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Nucleic Acids in Chemistry and Biology G Michael Blackburn, Michael J Gait, David Loakes, David M Williams, 2015-11-09 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

Nucleic Acids in the Gas Phase Valérie Gabelica, 2014-07-28 This book gives physical chemists a broader view of potential biological applications of their techniques for the study of nucleic acids in the gas phase It provides organic chemists biophysicists and pharmacologists with an introduction to new techniques they can use to find the answers to yet unsolved questions Laboratory sciences have bloomed with a variety of techniques to decipher the properties of the molecules of life This volume introduces techniques used to investigate the properties of nucleic acids in the absence of solvent It highlights the specificities pertaining to the studies of nucleic acids although some of the techniques can similarly be applied to the study of other biomolecules like proteins The first part of the book introduces the techniques from the transfer of nucleic acids to the gas phase to their detailed physico chemical investigation Each chapter is devoted to a specific molecular property and illustrates how various approaches experimental and theoretical can be combined for the interpretation The second part of the book is devoted to applying the gas phase approaches to solve specific questions related to the biophysics biochemistry or pharmacology of nucleic acids

Spherical Nucleic Acids Chad A. Mirkin, 2021-10-14 Spherical nucleic acids SNAs comprise a nanoparticle core and a densely packed and highly oriented nucleic acid shell They have novel structure dependent properties that differ from those of linear nucleic acids and that makes them useful in chemistry biology the life sciences medicine materials science and engineering This book is a reprint volume that compiles 101 key papers that have been published by the Mirkin Group at Northwestern University USA and their collaborators over the past more than two decades Volume 1 provides an overview and a historical framework of SNAs and discusses their enabling features which set them apart from all other forms of matter Volume 2 covers the general design rules for colloidal crystal engineering with DNA spanning the building blocks and DNA and RNA based programmable bonds that can be utilized in preparing such structures Volume 3 continues the discussion of

colloidal crystallization processes and routes to hierarchical assembly featuring dynamic nanoparticle superlattices and lattices prepared on surfaces or via templating strategies and explores what one can uniquely learn from and do with colloidal crystals prepared from nucleic acid functionalized nanomaterials in optics plasmonics and catalysis Volume 4 covers the role of SNAs in biomedicine especially as diagnostic probes both inside and outside of cells and treatments based on gene regulation and immunotherapy

Modern Magnetic Resonance Graham A. Webb, 2007-05-26 Modern Magnetic Resonance provides a unique and comprehensive resource on up to date uses and applications of magnetic resonance techniques in the sciences including chemistry biology materials food medicine pharmaceuticals and marine sciences The widespread appeal of MMR methods for revealing information at the molecular and microscopic levels is noted and examples are provided from the chemical and other sciences Until now there has been no single publication that covers all the areas encompassed by Modern Magnetic Resonance by bringing together the various techniques and their applications in many scientific areas the internationally renowned Editors have created a resource of broad appeal to the scientific community The book includes High resolution solid and liquid state NMR Low resolution NMR Solution State NMR Magnetic Resonance Imaging Electron Spin Resonance Many applications taken from all of the chemical and related sciences

DNA Computing Junghuei Chen, 2004-02-18 This book constitutes the thoroughly refereed post proceedings of the 9th International Workshop on DNA Based Computers DNA9 held in Madison Wisconsin USA in June 2003 The 22 revised full papers presented were carefully selected during two rounds of reviewing and improvement from initially 60 submissions The papers are organized in topical sections on new experiments and tools theory computer simulation and sequence design self assembly and autonomous molecular computation experimental solutions and new computing models

Structure and Physics of Viruses Mauricio G. Mateu, 2024-12-31 The second edition of this book provides a completely updated account of the structure dynamics and physics of viral particles from the moment they emerge by self assembly from viral components produced in the infected cell through their extracellular stage until they recognize and infect a new host cell and cease to exist as they lose their physical integrity to initiate a new infectious cycle New insights into the structure of viruses their physical properties and mechanisms of action derived from results obtained in the last decade have been included as well as other bio physical techniques to study the structure or dynamics of virus particles and components These include among many others new advances in high resolution electron cryomicroscopy novel approaches in the use of electron cryotomography or the application of soft X ray tomography to study viruses in the infected cell high speed atomic force microscopy to study virus assembly and dynamics and the development of new antiviral drugs and vaccines as well as of many nanomedical and nanotechnological applications of virus particles New chapters on the study of viruses inside infected cells and on technological applications of modified viral particles have been included in this second edition The book is still aimed primarily at Master s students Ph D students and postdoctoral researchers with degrees in biology chemistry physics

or related scientific disciplines who have an interest in or are working with viruses It provides an up to date overview of many important concepts techniques studies and applications in structural and physical virology for specialized researchers working with viruses regardless of their field of specialization covering the latest research together with fundamental concepts and well established facts In short this book is basic enough to be used by undergraduate and Ph D students but advanced and up to date enough for experienced scientists with an interest in structural and or physical virology

Research Awards Index ,1987 Structural Insights Into Gene Expression And Protein Synthesis Thomas A Steitz,2020-08-18 Several years ago Thomas Steitz agreed to contribute a volume to the World Scientific Series in Structural Biology that would deal with the contributions he and his coworkers have made to structural biology during his remarkable career Sadly Tom died in the fall of 2018 before he had had time to do more than produce an outline for this book and a list of the reprints he wanted it to contain Fortunately Tom s colleagues and coworkers responded enthusiastically when they were informed later that fall that if they were willing to help out a volume would be published to commemorate his career It fell to Anders Liljas Peggy Eatherton Tom s longtime administrative assistant and Peter Moore a close colleague to oversee their efforts Thomas Steitz is best known for the work he and his coworkers did to elucidate the biochemical basis of gene expression The structures of a large number of the macromolecules involved in transcription and translation emerged from his laboratory over the course of his career This book includes reprints of the most important papers he had published grouped according to the structures they relate to and commentaries written by the scientists who collaborated with him to solve each of them It thus summarizes the achievements of one of the most distinguished biochemists of the second half of the 20th century **Introduction to Modern Biophysics** Mohammad Ashrafuzzaman,2023-12-15 This textbook provides an introduction to the fundamental and applied aspects of biophysics for advanced undergraduate and graduate students of physics chemistry and biology The application of physics principles and techniques in exploring biological systems has long been a tradition in scientific research Biological systems hold naturally inbuilt physical principles and processes which are popularly explored Systematic discoveries help us understand the structures and functions of individual biomolecules biomolecular systems cells organelles tissues and even the physiological systems of animals and plants Utilizing a physics based scientific understanding of biological systems to explore disease is at the forefront of applied scientific research This textbook covers key breakthroughs in biophysics whilst looking ahead to future horizons and directions of research It contains models based on both classical and quantum mechanical treatments of biological systems It explores diseases related to physical alterations in biomolecular structures and organizations alongside drug discovery strategies It also discusses the cutting edge applications of nanotechnologies in manipulating nanoprocesses in biological systems Key Features Presents an accessible introduction to how physics principles and techniques can be used to understand biological and biochemical systems Addresses natural processes mutations and their purposeful manipulation Lays the groundwork for

vitality important natural scientific technological and medical advances ,2013-11-11 *Biomedical Index to PHS-supported Research* ,1993 **World Directory of Crystallographers** *Organic Chemistry, Fourth Edition* K. Peter C. Vollhardt, Neil E. Schore, 2003 New edition of the acclaimed organic chemistry text that brings exceptional clarity and coherence to the course by focusing on the relationship between structure and function *Nucleic Acids Symposium Series* ,1995 No 6 are papers presented at the Symposium on Nucleic Acids Chemistry **Ion Exchange Properties of Cells and Tissues** Aser Rothstein, 1955 *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants, 1973 *Design of Plasmid Amplified DNA Building Block Synthesis System and Evaluation of Dendrimer-like DNA Fluorescent Nanobarcodes* Yen Thi Hong Cu, 2005 **S-adenosylmethionine-dependent Methyltransferases: Structures And Functions** Robert M Blumenthal, Xiaodong Cheng, 1999-07-23 This invaluable volume written by an international group of scientists presents an overview of the AdoMet dependent methyltransferases with special emphasis on structure function relationships S adenosyl L methionine AdoMet is the second most commonly used enzyme cofactor after ATP The AdoMet dependent methyltransferases act on a wide variety of target molecules including DNA RNA protein polysaccharides lipids and a range of small molecules The well conserved architecture of these enzymes and the implications of this conservation for their evolutionary history are major themes of this book The thirteen chapters describe in detail the structures enzyme kinetics and biological roles of the AdoMet dependent methyltransferases from a wide range of cell types plant animal bacterial and archaeal **Encyclopedia of Cell Biology** ,2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field the Encyclopedia of Cell Biology provides a fully cross referenced one stop resource for students researchers and teaching faculty across the biological and medical sciences Fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience Includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology RNA biology aging cell growth cell Injury and more In depth linking to Academic Press Elsevier content and additional links to outside websites and resources for further reading A one stop resource for students researchers and teaching faculty across the biological and medical sciences **Macromolecular Design of Polymeric Materials** Hatada, 1997-01-02 Providing a range of information on polymers and polymerization techniques this text covers the gamut of polymer science from synthesis structure and properties to function and applications It analyzes speciality polymers including acrylics fluoropolymers polysilanes polyphosphazenes and inorganic and

conducting polymers The book examines the stereochemistry of polymerization and the stereoregularity of polymers
Cumulated Index Medicus ,1976

Whispering the Techniques of Language: An Emotional Quest through **Nucleic Acids Structures Properties Fu**

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