

NUCLEIC ACIDS

STRUCTURES, PROPERTIES, AND FUNCTIONS

Victor A. BLOOMFIELD

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K Morrison



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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 undergraduate students of chemistry and biochemistry, as well as new researchers to the field.

Spherical Nucleic Acids Chad A. Mirkin, 2020-08-31. Spherical nucleic acids (SNAs) comprise a nanoparticle core and a densely packed and highly oriented nucleic acid shell, typically DNA or RNA. They have novel architecture-dependent properties that distinguish them from all other forms of nucleic acids and make them useful in materials synthesis, catalysis, diagnostics, therapeutics, and optics. Plasmonics. This book covers over two decades of Dr. Mirkin's research on SNAs and their anisotropic analogues, including synthesis and fundamental properties and applications in colloidal crystallization, adaptive matter, and nanomedicine, spanning extra- and intracellular diagnostics, gene regulation, and immunomodulation. It is a reprint volume that compiles 101 key papers from high-impact journals in this research area, published by the Mirkin Group at Northwestern University, Illinois, USA, within the International Institute for Nanotechnology and collaborators. Volume 1 provides an overview and a historical framework of engineering matter from DNA-modified constructs and discusses the enabling features of nucleic acid functionalized nanomaterials. Volume 2 covers design rules for colloidal crystallization, building blocks for crystal engineering, and DNA and RNA as programmable bonds. Volume 3 discusses colloidal crystallization processes and routes to hierarchical assembly, dynamic nanoparticle superlattices, surface-based and template-confined colloidal crystallization, optics, and plasmonics with nanoparticle superlattices, and postsynthetic modification and catalysis with nanoparticle superlattices. Volume 4 covers diagnostic modalities and intracellular therapeutic and diagnostic schemes based upon nucleic acid functionalized nanomaterials.

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

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

Feature Representation and Learning Methods With Applications in Protein Secondary Structure Zhibin Lv, Hong Wenjing, Xue Xu, 2021-10-25

Progress in Molecular and Subcellular Biology B. W. Agranoff, J. Davies, F. E. Hahn, H. G. Mandel, N. S. Scott, R. M. Smillie, C. R. Woese, 2012-12-06

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

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 Cumulated Index Medicus ,1971 **World Directory of Crystallographers** ,2013-11-11 **RNA Biology of Microorganisms** Omar Orellana,Orna Amster-Choder,Jiqiang Ling,Rajat Banerjee,2021-12-31 **Research Awards Index** ,1988 Biomedical Index to PHS-supported Research ,1993 **Viroids and Satellites** Ahmed Hadidi,Ricardo Flores,John W Randles,Peter Palukaitis,2017-07-18 Viroids and Satellites describes plant diseases and their causal agents while also addressing the economic impact of these diseases The book discusses various strategies for state of the art methods for the detection and control of pathogens in their infected hosts and provides pivotal information from the discovery of viroids through the analysis of their molecular and biological properties to viroid pathogenesis host interactions and RNA silencing pathways Students researchers and regulators will find this to be a comprehensive resource on the topics presented Provides coverage of the basic biological properties of disease along with applied knowledge Features economic impacts transmission geographical distribution epidemiology detection and control within each chapter Organizes viroid diseases by viroid taxonomy and viroid species **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 **Optical Trapping (Laser Tweezers) and Nanosurgery (Laser Scissors)** Michael W. Berns,Daryl Preece,Halina Rubinsztein-Dunlop,Monika Ritsch-Marte,2022-02-03 **Informational Biopolymers of Genes and Gene Expression** R.D. Blake,2005-03-23 This new text examines thebiophysics and biochemistry of nucleic acids and proteins carving outthe dynamic interface between chemistry and molecular biology and providing adetailed picture of nucleic acids and proteins their structures biologicalproperties and origins and evolution **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 vitally important natural scientific technological and medical advances Mohammad Ashrafuzzaman a biophysicist and condensed matter scientist is passionate about investigating biological and biochemical processes utilizing physics principles and techniques He is a professor of biophysics at King Saud University s Biochemistry Department in the College of Science Riyadh Saudi Arabia the co founder of MDT Canada Inc and the founder of Child Life Development Institute Edmonton Canada He has authored Biophysics and Nanotechnology of Ion Channels Nanoscale Biophysics of the Cell and Membrane Biophysics He has also published about 50 peer reviewed articles and several patents edited two books and has been serving on the editorial boards of Elsevier and Bentham Science journals Dr Ashrafuzzaman has held research and academic ranks at Bangladesh University of Engineering Technology University of Neuchatel Switzerland Helsinki University of Technology Finland Weill Medical College of Cornell University USA and University of Alberta Canada During 2013 2018 he also served as a Visiting Professor at the Departments of Oncology and Medical Microbiology and Immunology of the University of Alberta Dr Ashrafuzzaman earned his highest academic degree Doctor of Science D Sc in condensed matter physics from the University of Neuchatel Switzerland in 2004

Chemoinformatics Approaches to Structure- and Ligand-Based Drug Design Adriano D. Andricopulo, Leonardo L. G. Ferreira, 2019-02-05 Chemoinformatics is paramount to current drug discovery Structure and ligand based drug design strategies have been used to uncover hidden patterns in large amounts of data and to disclose the molecular aspects underlying ligand receptor interactions This Research Topic aims to share with a broad audience the most recent trends in the use of chemoinformatics in drug design To that end experts in all areas of drug discovery have made their knowledge available through a series of articles that report state of the art approaches Readers are provided with outstanding contributions focusing on a wide variety of topics which will be of great value to those interested in the many different and exciting facets of drug design **Bioinformatics Research and Applications** Ion Mandoiu, Alexander

Zelikovsky,2007-08-06 This book constitutes the refereed proceedings of the Third International Symposium on Bioinformatics Research and Applications ISBRA 2007 held in Atlanta GA USA in May 2007 The 55 revised full papers presented together with three invited talks cover a wide range of topics including clustering and classification gene expression analysis gene networks genome analysis motif finding pathways protein structure prediction protein domain interactions phylogenetics and software tools

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