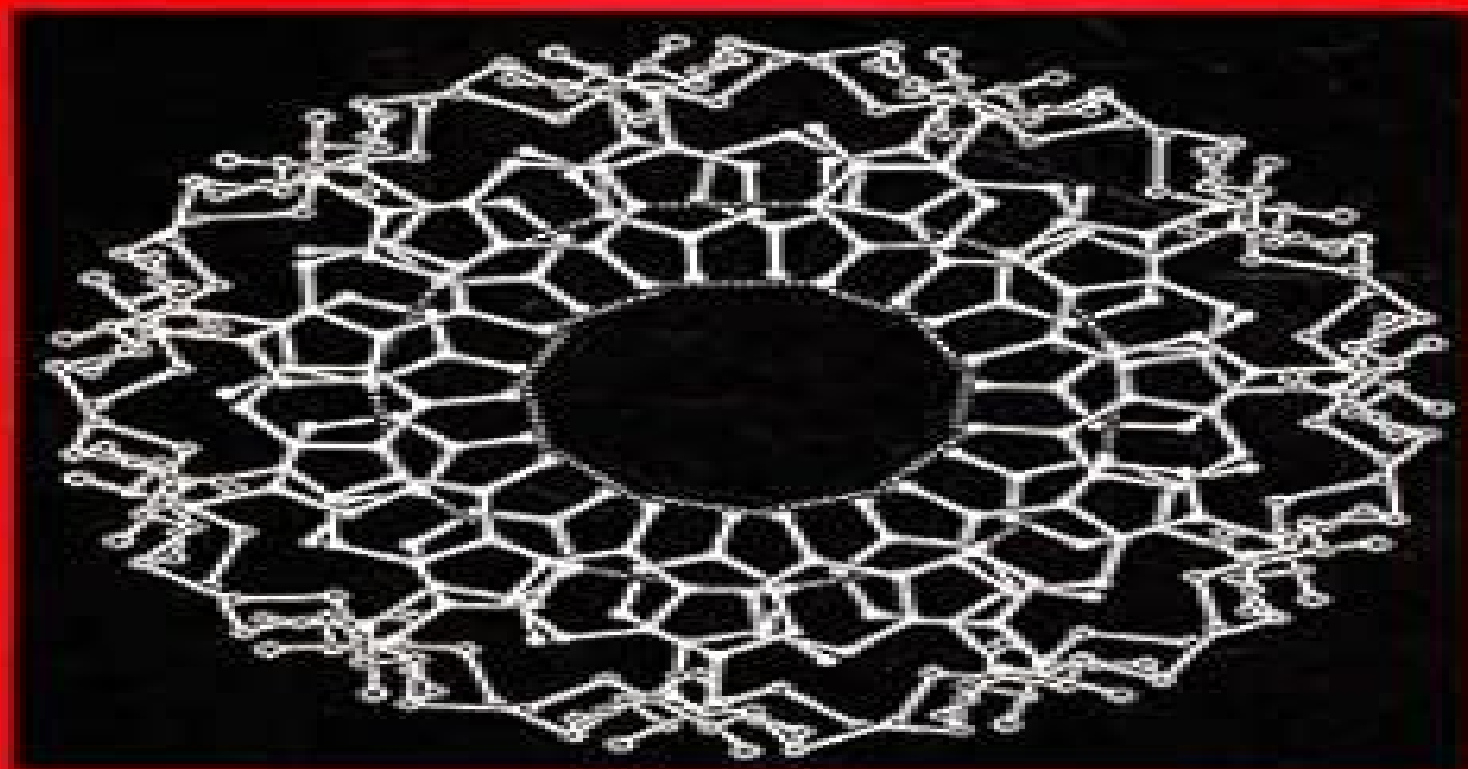


Nucleic Acid Geometry and Dynamics

Edited by
Ramaswamy H. Sarma



Pergamon Press

Necleic Acid Geometry And Dynamics

Kazuhiko Nakatani, Yitzhak Tor



Nucleic Acid Geometry And Dynamics:

Nucleic Acid Geometry and Dynamics Ramaswamy H. Sarma, 1980-01-01 *Nucleic Acid Geometry and Dynamics* Ramaswamy H. Sarma, 1980 *Structure and Dynamics of Nucleic Acids, Proteins, and Membranes* E. Clementi, S. Chin, 2012-12-06 This volume collects a number of the invited lectures and a few selected contributions presented at the International Symposium on Structure and Dynamics of Nucleic Acids Proteins and Membranes held August 31st through September 5th 1986 in Riva del Garda Italy The title of the conference as well as a number of the topics covered represent a continuation of two previous conferences the first held in 1982 at the University of California in San Diego and the second in 1984 in Rome at the Accademia dei Lincei These two earlier conferences have been documented in *Structure and Dynamics Nucleic Acids and Proteins* edited by E Clementi and R H Sarma Adenine Press New York 1983 and *Structure and Motion Membranes Nucleic Acids and Proteins* edited by E Clementi G Corongiu M H Sarma and R H Sarma Adenine Press New York 1985 At this conference in Riva del Garda we were very hesitant to keep the name of the conference the same as the two previous ones Indeed a number of topics discussed in this conference were not included in the previous ones and even the emphasis of this gathering is only partly reflected in the conference title An alternative title would have been *Structure and Dynamics of Nucleic Acids Proteins and Higher Functions* or possibly higher components rather than higher functions

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 *RNA Structure and Dynamics* Jienyu Ding, Jason R. Stagno, Yun-Xing Wang, 2022-10-13 This volume provides a wide spectrum of multidisciplinary approaches for studying RNA structure and dynamics including detailed accounts of experimental and computational procedures Chapters guide readers through cryo electron microscopy crystallography isothermal titration calorimetry small angle X ray scattering single molecule F rster Energy transfer X ray free electron laser atomic force microscopy computational simulation and prediction

Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge RNA Structure and Dynamics aims to be a foundation for future studies and to be a source of inspiration for new investigations in the field *Structure and Dynamics of RNA* P. H. van Knippenberg, C. W. Hilbers, 2013-03-08 This volume contains contributions from the speakers at the NATO Advanced Research Workshop on 3D Structure and Dynamics of RNA which was held in Renesse The Netherlands 21-24 August 1985 Two major developments have determined the progress of nucleic acid research during the last decade First manipulation of genetic material by recombinant DNA methodology has enabled detailed studies of the function of nucleic acids in vivo Second the use of powerful physical methods such as X ray diffraction and nuclear magnetic resonance spectroscopy in the study of biomacromolecules has provided information regarding the structure and the dynamics of nucleic acids Both developments were enabled by the advance of synthetic methods that allow preparation of nucleic acid molecules of required sequence and length The basic understanding of nucleic acid function will ultimately depend on a close collaboration between molecular biologists and biophysicists In the case of RNA the ground rules for the formation of secondary structure have been derived from physical studies of oligoribonucleotides Powerful spectroscopic techniques have revealed more details of A structure including novel conformations e g left handed Z RNA A wealth of information has been obtained by studying the relatively small transfer RNA molecules A few of these RNAs have been crystallized enabling determination of their three dimensional structure It has become apparent that non classical basepairing between distal nucleotides gives rise to tertiary interactions determining the overall shape of the molecule Topics in Nucleic Acid Structure Stephen Neidle, 1987-06-18 Structure, Dynamics and Function of Biomolecules Anders Ehrenberg, Rudolf Rigler, Astrid Gräslund, Lennart Nilsson, 2012-12-06 This is a collection of papers presented and discussed at the first EBSA workshop held at Saltsjöbaden outside Stockholm in Sweden July 6-10 1986 The common theme of these papers is dynamics of biomolecules and how the dynamics depends on the molecular structure and organization and connects to and determines the biological function This is a rapidly expanding field of research which combines many different aspects of molecular biophysics Much material is new and presented for the first time Even if the work so far has been of the kind that is usually called basic research practical applications are clearly indicated in some articles and are waiting around the corner in several other cases At the workshop only one third of the time was used for the formal presentations and two thirds for discussion To this should also be added discussions during the poster sessions During these lively and unrecorded discussions fresh viewpoints emerged and new ideas were created Admittedly our knowledge at present is only fragmentary but when pieces of the puzzle are brought together at a workshop or in a publication of this kind more extended and sometimes unexpected contours and shapes become visible It is our hope that this rapid publication of camera ready manuscripts will transfer some

of the spirit at the workshop to the reader and in his or her institute or laboratory initiate further discussions bring forward more ideas and start new experimental approaches

Structure and Dynamics, Nucleic Acids and Proteins Enrico Clementi, Ramaswamy H. Sarma, 1983 *RNA Structure and Function* Jan Barciszewski, 2023-11-03 This book focuses on the current status of our understanding of RNA a key biological molecule The various RNAs covered are messenger RNA ribosomal RNA transfer RNA noncoding RNAs modified nucleosides and RNA enzymes The different chapters detail methods to investigate RNA structure and function the chemistry of modified RNAs and the latest advances in our understanding of the vast array of biological processes in which RNA is involved RNA in one form or another touches almost everything in a cell RNA has both structural and catalytic properties RNA fulfills a broad range of functions These molecules are no longer seen as passive elements transferring the genetic information from DNA into proteins but regulate the activity of genes during development cellular differentiation and changing environments RNAs are involved in various aspects of cell physiology and disease development Discoveries of RNA with unexpected diverse functions in healthy and diseased cells such as the role of RNA as both the source and countermeasure to cancer or severe viral infection stimulate new trends passion and solutions for molecular medicine In this book fundamental questions about the biochemical and genetic importance of RNA how mRNAs are generated and used to produce proteins how noncoding and catalytic RNAs mediate key cellular processes how to determine RNA structure and how to apply RNA in treatment of diseases This book is an essential resource for researches in academia and industry contributing to the development of new RNA therapeutics The book is geared toward scientists from the graduate level on up and particularly appeals to active investigators in RNA biology molecular biology and biochemistry

Structure, Dynamics, Interactions and Evolution of Biological Macromolecules C. Helene, 2012-12-06 Proceedings of a Colloquium held at Orleans France July 5 9 1982 Protein and Nucleic Acid Structure and Dynamics Jonathan King, 1985 *Computational Structural Biology* Manuel Claude Peitsch, 2008 This work covers the impact of computational structural biology on protein structure prediction methods macromolecular function and protein design and key methods in drug discovery It also addresses the computational challenges of experimental approaches in structural biology

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992 **Nucleic Acid Structure** Stephen Neidle, 1987 **RNA 3D Structure Analysis and Prediction** Neocles Leontis, Eric Westhof, 2012-06-05 With the dramatic increase in RNA 3D structure determination in recent years we now know that RNA molecules are highly structured Moreover knowledge of RNA 3D structures has proven crucial for understanding in atomic detail how they carry out their biological functions Because of the huge number of potentially important RNA molecules in biology many more than can be studied experimentally we need theoretical approaches for predicting 3D structures on the basis of sequences alone This volume provides a comprehensive overview of current progress in the field by leading practitioners employing a variety of methods to model RNA 3D structures by homology by fragment assembly and by de novo energy and knowledge based

approaches **Computational studies of RNA and DNA** Jirí Šponer,Filip Lankaš,2006-10-05 This book integrates modern computational studies of nucleic acids ranging from advanced electronic structure quantum chemical calculations through explicit solvent molecular dynamics MD simulations up to mesoscopic modelling with the main focus given to the MD field It gives an equal emphasis to the leading methods and applications while successes as well as pitfalls of the computational techniques are discussed Handbook of RNA Biochemistry Roland K. Hartmann,Albrecht Bindereif,Astrid Schön,Eric Westhof,2015-06-22 The second edition of a highly acclaimed handbook and ready reference Unmatched in its breadth and quality around 100 specialists from all over the world share their up to date expertise and experiences including hundreds of protocols complete with explanations and hitherto unpublished troubleshooting hints They cover all modern techniques for the handling analysis and modification of RNAs and their complexes with proteins Throughout they bear the practising bench scientist in mind providing quick and reliable access to a plethora of solutions for practical questions of RNA research ranging from simple to highly complex This broad scope allows the treatment of specialized methods side by side with basic biochemical techniques making the book a real treasure trove for every researcher experimenting with RNA **Chemistry and Biology of Non-canonical Nucleic Acids** Naoki Sugimoto,2021-03-16 Discover the fundamentals and intricacies of a subject at the interface of chemistry and biology with this authoritative resource Chemistry and Biology of Non canonical Nucleic Acids delivers a comprehensive treatment of the chemistry and biology of non canonical nucleic acids including their history structures stabilities properties and functions You ll learn about the role of these vital compounds in transcription translation regulation telomeres helicases cancers neurodegenerative diseases therapeutic applications nanotechnology and more An ideal resource for graduate students researchers in physical organic analytical and inorganic chemistry will learn about uncommon nucleic acids become the common non canonical nucleic acids that fascinate and engage academics and professionals in private industry Split into 15 chapters covering a wide range of aspects of non canonical nucleic acids the book explains why these compounds exist at the forefront of a new research revolution at the intersection of chemistry and biology Chemistry and Biology of Non canonical Nucleic Acids also covers a broad range of topics critical to understanding these versatile and omnipresent chemicals including A discussion of the dynamic regulation of biosystems by nucleic acids with non canonical structures The role played by nucleic acid structures in neurodegenerative diseases and various cancers An exploration of the future outlook for the chemistry and biology of non canonical nucleic acids An introduction to the history of canonical and non canonical structures of nucleic acids An analysis of the physicochemical properties of non canonical nucleic acids Perfect for biochemists materials scientists and bioengineers Chemistry and Biology of Non canonical Nucleic Acids will also earn a place in the libraries of medicinal and pharmaceutical chemists who wish to improve their understanding of life processes and the role that non canonical nucleic acids play in them *Riboswitch Discovery, Structure and Function* ,2014-11-21 This new volume of Methods in Enzymology continues the legacy of this premier serial

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