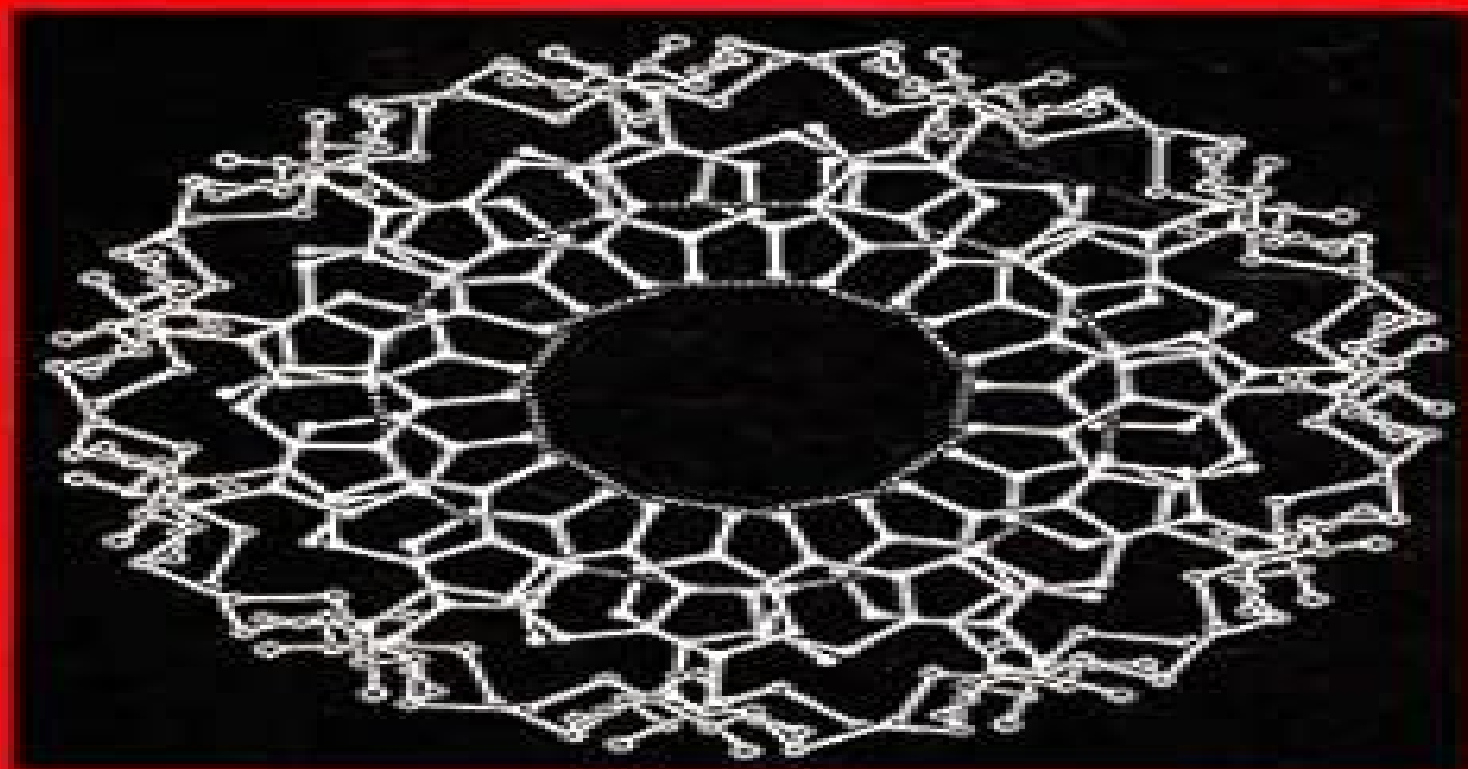


Nucleic Acid Geometry and Dynamics

Edited by
Ramaswamy H. Sarma



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Nucleic Acid Geometry And Dynamics

**Anders Ehrenberg, Rudolf Rigler, Astrid
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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 Topics in Nucleic Acid Structure Stephen Neidle,1987-06-18 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 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

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 and Dynamics, Nucleic Acids and Proteins Enrico Clementi, Ramaswamy H. Sarma, 1983

Unveiling the Magic of Words: A Report on "**Nucleic Acid Geometry And Dynamics**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Nucleic Acid Geometry And Dynamics**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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