



Nucleic Acid Protein Recognition

Stephen Neidle, Mark Sanderson



Nucleic Acid Protein Recognition:

Nucleic Acid-Protein Recognition Henry Vogel, 2012-12-02 Nucleic Acid Protein Recognition covers the proceedings of a symposium on Nucleic Acid Protein Recognition held at Arden House Harriman Campus of Columbia University on May 30 June 1 1976 The symposium inaugurated the P S Biomedical Sciences Symposia under the sponsorship of the College of Physicians and Surgeons of Columbia University This book is organized into nine parts encompassing 31 chapters The opening parts describe the principles of DNA replication and the unique chromatin structure These parts also examine the physical chemistry of the interactions of melting proteins with nucleic acids The third part presents the different types of approaches that can be used to study the function of RNA polymerases and the development of a cell free system that favors Pol II catalyzed transcription from type 2 adenovirus DNA Parts IV and V deal with the sequence determination of wild type and mutant repressor and the restriction and modification of DNA endonucleases while parts VI and VII focus on the recognition of tRNA Part VIII discusses some significant studies on the assembly of ribosomes and the principles of ribosomal interactions Lastly Part IX considers the role of small RNA template in the reaction mechanism of RNA replicases and ribonucleases This part also surveys the so called RNase III cleavage of different types of RNA and the structure of nucleic acid protein complexes Nucleic Acid-protein Recognition Henry James Vogel, 1971 **Protein-Nucleic Acid**

Interactions Phoebe A Rice, Carl C Correll, 2008-04-22 The structural biology of protein nucleic acid interactions is in some ways a mature field and in others in its infancy High resolution structures of protein DNA complexes have been studied since the mid 1980s and a vast array of such structures has now been determined but surprising and novel structures still appear quite frequently High resolution structures of protein RNA complexes were relatively rare until the last decade Propelled by advances in technology as well as the realization of RNA's importance to biology the number of example structures has ballooned in recent years New insights are now being gained from comparative studies only recently made possible due to the size of the database as well as from careful biochemical and biophysical studies As a result of the explosion of research in this area it is no longer possible to write a comprehensive review Instead current review articles tend to focus on particular subtopics of interest This makes it difficult for newcomers to the field to attain a solid understanding of the basics One goal of this book is therefore to provide in depth discussions of the fundamental principles of protein nucleic acid interactions as well as to illustrate those fundamentals with up to date and fascinating examples for those who already possess some familiarity with the field The book also aims to bridge the gap between the DNA and the RNA views of nucleic acid protein recognition which are often treated as separate fields However this is a false dichotomy because protein DNA and protein RNA interactions share many general principles This book therefore includes relevant examples from both sides and frames discussions of the fundamentals in terms that are relevant to both The monograph approaches the study of protein nucleic acid interactions in two distinctive ways First DNA protein and RNA protein interactions are presented together Second the

first half of the book develops the principles of protein nucleic acid recognition whereas the second half applies these to more specialized topics Both halves are illustrated with important real life examples The first half of the book develops fundamental principles necessary to understand function An introductory chapter by the editors reviews the basics of nucleic acid structure Jen Jacobsen and Jacobsen discuss how solvent interactions play an important role in recognition illustrated with extensive thermodynamic data on restriction enzymes Marmorstein and Hong introduce the zoology of the DNA binding domains found in transcription factors and describe the combinational recognition strategies used by many multiprotein eukaryotic complexes Two chapters discuss indirect readout of DNA sequence in detail Berman and Lawson explain the basic principles and illustrate them with in depth studies of CAP while in their chapter on DNA bending and compaction Johnson Stella and Heiss highlight the intrinsic connections between DNA bending and indirect readout Horvath lays out the fundamentals of protein recognition of single stranded DNA and single stranded RNA and describes how they apply in a detailed analysis of telomere end binding proteins Nucleic acids adopt more complex structures Lilley describes the conformational properties of helical junctions and how proteins recognize and cleave them Because RNA readily folds due to the stabilizing role of its 2 hydroxyl groups Li discusses how proteins recognize different RNA folds which include duplex RNA With the fundamentals laid out discussion turns to more specialized examples taken from important aspects of nucleic acid metabolism Schroeder discusses how proteins chaperone RNA by rearranging its structure into a functional form Berger and Dong discuss how topoisomerases alter the topology of DNA and relieve the superhelical tension introduced by other processes such as replication and transcription Dyda and Hickman show how DNA transposases mediate genetic mobility and Van Duyne discusses how site specific recombinases cut and paste DNA Horton presents a comprehensive review of the structural families and chemical mechanisms of DNA nucleases whereas Li in her discussion of RNA protein recognition also covers RNA nucleases Lastly Ferr D Amar shows how proteins recognize and modify RNA transcripts at specific sites The book also emphasises the impact of structural biology on understanding how proteins interact with nucleic acids and it is intended for advanced students and established scientists wishing to broaden their horizons *Protein-Nucleic Acid Interactions* Phoebe A. Rice, Carl C. Correll, 2008-05-22

The structural biology of protein nucleic acid interactions is in some ways a mature field and in others in its infancy High resolution structures of protein DNA complexes have been studied since the mid 1980s and a vast array of such structures has now been determined but surprising and novel structures still appear quite frequently High resolution structures of protein RNA complexes were relatively rare until the last decade Propelled by advances in technology as well as the realization of RNA's importance to biology the number of example structures has ballooned in recent years New insights are now being gained from comparative studies only recently made possible due to the size of the database as well as from careful biochemical and biophysical studies As a result of the explosion of research in this area it is no longer possible to write a comprehensive review Instead current review articles tend to focus on particular

subtopics of interest This makes it difficult for newcomers to the field to attain a solid understanding of the basics One goal of this book is therefore to provide in depth discussions of the fundamental principles of protein nucleic acid interactions as well as to illustrate those fundamentals with up to date and fascinating examples for those who already possess some familiarity with the field The book also aims to bridge the gap between the DNA and the RNA views of nucleic acid protein recognition which are often treated as separate fields However this is a false dichotomy because protein DNA and protein RNA interactions share many general principles This book therefore includes relevant examples from both sides and frames discussions of the fundamentals in terms that are relevant to both The monograph approaches the study of protein nucleic acid interactions in two distinctive ways First DNA protein and RNA protein interactions are presented together Second the first half of the book develops the principles of protein nucleic acid recognition whereas the second half applies these to more specialized topics Both halves are illustrated with important real life examples The first half of the book develops fundamental principles necessary to understand function An introductory chapter by the editors reviews the basics of nucleic acid structure Jen Jacobsen and Jacobsen discuss how solvent interactions play an important role in recognition illustrated with extensive thermodynamic data on restriction enzymes Marmorstein and Hong introduce the zoology of the DNA binding domains found in transcription factors and describe the combinatorial recognition strategies used by many multiprotein eukaryotic complexes Two chapters discuss indirect readout of DNA sequence in detail Berman and Lawson explain the basic principles and illustrate them with in depth studies of CAP while in their chapter on DNA bending and compaction Johnson Stella and Heiss highlight the intrinsic connections between DNA bending and indirect readout Horvath lays out the fundamentals of protein recognition of single stranded DNA and single stranded RNA and describes how they apply in a detailed analysis of telomere end binding proteins Nucleic acids adopt more complex structures Lilley describes the conformational properties of helical junctions and how proteins recognize and cleave them Because RNA readily folds due to the stabilizing role of its 2 hydroxyl groups Li discusses how proteins recognize different RNA folds which include duplex RNA With the fundamentals laid out discussion turns to more specialized examples taken from important aspects of nucleic acid metabolism Schroeder discusses how proteins chaperone RNA by rearranging its structure into a functional form Berger and Dong discuss how topoisomerases alter the topology of DNA and relieve the superhelical tension introduced by other processes such as replication and transcription Dyda and Hickman show how DNA transposases mediate genetic mobility and Van Duyne discusses how site specific recombinases cut and paste DNA Horton presents a comprehensive review of the structural families and chemical mechanisms of DNA nucleases whereas Li in her discussion of RNA protein recognition also covers RNA nucleases Lastly Ferr D Amar shows how proteins recognize and modify RNA transcripts at specific sites The book also emphasises the impact of structural biology on understanding how proteins interact with nucleic acids and it is intended for advanced students and established scientists wishing to broaden their horizons Structural Studies of

Protein-Nucleic Acid Interaction Thomas A. Steitz, 1993-09-16 In this 1993 text Nobel Prize winner Professor Steitz reviews the wide ranging research in structural studies of DNA binding proteins and their complexes with DNA The author clearly and concisely describes the uses of techniques in molecular genetics DNA synthesis protein crystallography and nuclear magnetic response

RNA-Protein Interactions : A Practical Approach Christopher W.J. Smith, 1998-07-09 RNA protein interactions play a fundamental role in gene expression and protein synthesis Recent research into the role of RNA in cells has elucidated many more vital interactions with proteins This book provides an up to date and comprehensive guide to a wide range of laboratory procedures to investigate the interactions between RNA and proteins RNA protein interactions play a vital role in gene transcription and protein expression Interactions such as the synthesis of mRNA by RNA polymerases to the essential modification of RNA by the proteins of the spliceosome complex and the highly catalytic action of the ribosome in protein synthesis are established as being fundamental to the function of RNA Recent research into for example the role of RNA as a catalyst has elucidated many more interactions with proteins that are vital to cell function

RNA Protein Interactions A Practical Approach provides a clear and comprehensive guide to the experimental procedures used in studying RNA protein interactions The approaches covered range from those initially used to detect a novel RNA protein interaction various biochemical and genetic approaches to purifying and cloning RNA binding proteins through to methods for an in depth analysis of the structural basis of the interaction The volume includes a number of procedures that have not previously been covered in this type of manual These include the production of site specifically modified RNAs by enzymatic and chemical methods and in vivo screening for novel RNA protein interactions in yeast and E coli This is the first volume to gather in one place this wide array of approaches for studying RNA protein interactions As is customary for the Practical Approach series the writing is characterized by a clear explanatory style with many detailed protocols This informative book will be a valuable aid to laboratory workers in biochemistry and molecular biology graduate students postdoctoral and senior scientists whose research encompasses this field

DNA-Protein Interactions Tom Moss, 2008-02-02 Dr Tom Moss assembles the new standard collection of cutting edge techniques to identify key protein DNA interactions and define their components their manner of interaction and their manner of function both in the cell and in the test tube The techniques span a wide range from factor identification to atomic detail and include multiple DNA footprinting analyses including in vivo strategies gel shift EMSA optimization SELEX surface plasmon resonance site specific DNA protein crosslinking and UV laser crosslinking

Comprehensive and broad ranging *DNA Protein Interactions Principles and Protocols 2nd Edition* offers a stellar array of over 100 up to date and readily reproducible techniques that biochemists and molecular cellular and developmental biologists can use successfully today to understand DNA protein interactions

Principles of Nucleic Acid Structure Stephen Neidle, Mark Sanderson, 2021-10-15 *Principles of Nucleic Acid Structure Second Edition* provides the most complete and concise summary of underlying principles and approaches to studying nucleic acid structure including discussions of X

ray crystallography NMR molecular modelling and databases The book's focus is on a survey of structures that are especially important for biomedical research and pharmacological applications This updated edition includes the latest advances relevant to recognition of DNA and RNA by small molecules and proteins including sections on RNA folding ribosome structure and antibiotic interactions DNA quadruplexes DNA and RNA protein complexes and short interfering RNA siRNA This reference is a must have for those seeking an authoritative comprehensive and up to date source on all aspects of nucleic acid structure from basic first principles to details of recent research results Completely updated with an expanded section on protein nucleic acid interactions that reflects major increases in our knowledge Defines technical terms for novices Includes a complete list of resources including relevant online databases and software as well as useful websites

Cumulated Index Medicus, 1978 **Mass Spectrometry of Nucleosides and Nucleic Acids** Joseph H.

Banoub, Patrick A. Limbach, 2009-12-21 Assembling the work of an international panel of researchers Mass Spectrometry of Nucleosides and Nucleic Acids summarizes and reviews the latest developments in the field and provides a window on the next generation of analysis Beginning with an overview of recent developments the book highlights the most popular ionization methods and illustrates Progress in Nucleic Acid Research and Molecular Biology, 1991-08-16 Progress in Nucleic

Acid Research and Molecular Biology **Biophysics of RNA-Protein Interactions** Chirlmin Joo, David Rueda, 2019-09-19 RNA molecules play key roles in all aspects of cellular life but to do so efficiently they must work in synergism with proteins This book addresses how proteins and RNA interact to carry out biological functions such as protein synthesis regulation of gene expression genome defense liquid phase separation and more The topics addressed in this volume will appeal to researchers in biophysics biochemistry and structural biology The book is a useful resource for anybody interested in elucidating the molecular mechanisms and discrete properties of RNA protein complexes Included are reviews of key systems such as microRNA and CRISPR Cas that exemplify how RNA and proteins work together to perform their biological function Also covered are techniques ranging from single molecule fluorescence and force spectroscopy to crystallography cryo EM microscopy and kinetic modeling Bioanalytics Friedrich Lottspeich, Joachim W. Engels, 2018-03-08 Analytical methods are

the essential enabling tools of the modern biosciences This book presents a comprehensive introduction into these analytical methods including their physical and chemical backgrounds as well as a discussion of the strengths and weakness of each method It covers all major techniques for the determination and experimental analysis of biological macromolecules including proteins carbohydrates lipids and nucleic acids The presentation includes frequent cross references in order to highlight the many connections between different techniques The book provides a bird's eye view of the entire subject and enables the reader to select the most appropriate method for any given bioanalytical challenge This makes the book a handy resource for students and researchers in setting up and evaluating experimental research The depth of the analysis and the comprehensive nature of the coverage mean that there is also a great deal of new material even for experienced

experimentalists The following techniques are covered in detail Purification and determination of proteins Measuring enzymatic activity Microcalorimetry Immunoassays affinity chromatography and other immunological methods Cross linking cleavage and chemical modification of proteins Light microscopy electron microscopy and atomic force microscopy Chromatographic and electrophoretic techniques Protein sequence and composition analysis Mass spectrometry methods Measuring protein protein interactions Biosensors NMR and EPR of biomolecules Electron microscopy and X ray structure analysis Carbohydrate and lipid analysis Analysis of posttranslational modifications Isolation and determination of nucleic acids DNA hybridization techniques Polymerase chain reaction techniques Protein sequence and composition analysis DNA sequence and epigenetic modification analysis Analysis of protein nucleic acid interactions Analysis of sequence data Proteomics metabolomics peptidomics and toponomics Chemical biology

The Human Genome in Health and Disease Tore Samuelsson, 2019-02-07 The human genome is a linear sequence of roughly 3 billion bases and information regarding this genome is accumulating at an astonishing rate Inspired by these advances *The Human Genome in Health and Disease A Story of Four Letters* explores the intimate link between sequence information and biological function A range of sequence based functional units of the genome are discussed and illustrated with inherited disorders and cancer In addition the book considers valuable medical applications related to human genome sequencing such as gene therapy methods and the identification of causative mutations in rare genetic disorders The primary audiences of the book are students of genetics biology medicine molecular biology and bioinformatics Richly illustrated with review questions provided for each chapter the book helps students without previous studies of genetics and molecular biology It may also be of benefit for advanced non academics which in the era of personal genomics want to learn more about their genome Key selling features Molecular sequence perspective explaining the relationship between DNA sequence motifs and biological function Aids in understanding the functional impact of mutations and genetic variants Material presented at basic level making it accessible to students without previous studies of genetics and molecular biology Richly illustrated with questions provided to each chapter

Computational studies of RNA and DNA Jiri 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

Small Molecule DNA and RNA Binders Martine Demeunynck, Christian Bailly, W. David Wilson, 2006-03-06 The development of molecules that selectively bind to nucleic acids has provided many details about DNA and RNA recognition The range of such substances such as metal complexes peptides oligonucleotides and a wide array of synthetic organic compounds is as manifold as the functions of nucleic acids Nucleic acid recognition sequences are often found in the major or minor groove of a double strand while other typical interactions include intercalation between base

pairs or the formation of triple or quadruple helices One example of a binding mode that has recently been proposed is end stacking on such complex structures as the telomere tetraplex In this comprehensive book internationally recognized experts describe in detail the important aspects of nucleic acid binding and in so doing present impressive approaches to drug design Since typical substances may be created naturally or synthetically emphasis is placed on natural products chemical synthesis the use of combinatorial libraries and structural characterization The whole is rounded off by contributions on molecular modeling as well as investigations into the way in which any given drug interacts with its nucleic acid recognition site

Nucleic Acid Research Kiyoshi Mizobuchi, 2012-12-02 Nucleic Acid Research Future Development reflects the exchange of ideas and information among the participants of The Future of Nucleic Acid Research symposium held at Kyoto on December 1981 This publication aims to extend the ideas presented in the symposium and to provide facts that can answer various scientific questions particularly in molecular biology The book is divided into five parts It explains the structure of DNA and chromosome and the interaction of nucleic acids with proteins It also discusses the gene organization of prokaryotes as well as the gene expressions in eukaryotes and prokaryotes Moreover it talks about the DNA replication and recombination prokaryotes This publication is a masterful reference for genetics and molecular biology researchers and lecturers It will also be an excellent learning material for students taking different courses in biology including genetics cell and molecular biology molecular biophysics and biochemistry *Noncovalent Forces* Steve Scheiner, 2015-04-16

Computational methods and in particular quantum chemistry have taken the lead in our growing understanding of noncovalent forces as well as in their categorization This volume describes the current state of the art in terms of what we now know and the current questions requiring answers in the future Topics range from very strong ionic to very weak CH interactions In the intermediate regime forces to be considered are H bonds particularly CH O and OH metal halogen chalcogen pnictogen and tetrel bonds aromatic stacking dihydrogen bonds and those involving radicals Applications include drug development and predictions of crystal structure **NASA Technical Memorandum** ,1979 **Publications of the Planetary Biology Program for 1977: A Special Bibliography** ,1979

Nucleic Acid Protein Recognition Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Nucleic Acid Protein Recognition**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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