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Christopher W.J. Smith Susan R. Haynes Kiyoshi Nagai Jan Anthony Witkowski Marvin Jens Chirlmin Joo Ren-Jang Lin Kathryn Sandberg Dolph Hatfield Ole Maal? e Hansj? rgen Raettig Kivie Moldave J. Kjems Gary Spedding J? rgen Kjems John Michels (Journalist) James Frederick Dice Leena Gandhi

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

the molecular characterization of rna and its interactions with proteins is an important and exciting area of current research organisms utilize a variety of rna protein interactions to regulate the expression of their genes this is particularly true for eukaryotes since newly synthesized messenger rna must be extensively modified and transported to the cytoplasm before it can be used for protein synthesis the realization that posttranscriptional processes are critical components of gene regulation has sparked an explosion of interest in both stable ribonucleoprotein rnp complexes and transient rna protein interactions rna is conformationally flexible and can adopt complex structures that provide diverse surfaces for interactions with proteins the fact that short rna molecules aptamers see chapter 16 can be selected to bind many different types of molecules is evidence of the structural variability of rna rna molecules are rarely entirely single or double stranded but usually contain multiple short duplexes interrupted by single stranded loops and bulges in some rnas such as trnas the short duplexes stack on each other further variability is generated by the presence of non watson crick base pairs modified nucleotides and more complex structures such as pseudoknots and triple strand interactions

the study of rna protein interactions is crucial to understanding the mechanisms and control of gene expression and protein synthesis the realization that rnas are often far more biologically active than was previously appreciated has stimulated a great deal of new research in this field uniquely in this book the world s leading researchers have collaborated to produce a comprehensive and current review of rna protein interactions for all scientists working in this area timely comprehensive and authoritative this new frontiers title will be invaluable for all researchers in molecular biology biochemistry and structural biology

this book is a compilation of articles on significant events in the history of biochemistry which were published in the journal trends in biochemical sciences editor witkowski has selected articles that present an insider s view of discoveries that are now seen as landmark achievements and that relate to the central dogma of molecular biology which is that dna makes rna makes protein or once information has passed into protein it cannot get out again the book begins with albrecht kossel and the discovery of histones and ranges through schrodinger and the origins of molecular biology the double helix dna replication protein synthesis genetic code trna mrna early ribosome research peptidyl transfer and finally to the advent of rapid dna sequencing annotation 2005 book news inc portland or booknews com

the work described in this book is an excellent example of interdisciplinary research in systems biology it shows how concepts and approaches from the field of physics can be efficiently used to answer biological questions and reports on a novel methodology involving creative computer based analyses of high throughput biological data many of the findings described in the book which are the result of collaborations between the author a theoretical scientist and experimental biologists and between different laboratories have been published in high quality peer reviewed journals such as molecular cell and nature however while those publications address different aspects of post transcriptional gene regulation this book provides readers with a complete coherent and logical view of the research project as a whole the introduction presents post transcriptional gene regulation from a distinct angle highlighting aspects of information theory and evolution and laying the groundwork for the questions addressed in the subsequent chapters which concern the regulation of the transcriptome as the primary functional carrier of active

GENETIC INFORMATION

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

THIS SECOND EDITION UPDATES COMPLEMENTS AND EXPANDS UPON THE FIRST EDITION BY PROVIDING A COLLECTION OF CUTTING EDGE TECHNIQUES DEVELOPED OR REFINED IN THE PAST FEW YEARS ALONG WITH TRIED AND TRUE METHODS CHAPTERS EXPLORE THE ISOLATION AND CHARACTERIZATION OF RNA PROTEIN COMPLEXES THE ANALYSIS AND MEASUREMENT OF RNA PROTEIN INTERACTION AND RELATED NOVEL TECHNIQUES AND STRATEGIES WRITTEN IN THE HIGHLY SUCCESSFUL METHODS IN MOLECULAR BIOLOGY SERIES FORMAT THE CHAPTERS INCLUDE BRIEF INTRODUCTIONS TO THE MATERIAL LISTS OF NECESSARY MATERIALS AND REAGENTS STEP BY STEP READILY REPRODUCIBLE LABORATORY PROTOCOLS AND A NOTES SECTION WHICH HIGHLIGHTS TIPS ON TROUBLESHOOTING AND AVOIDING KNOWN PITFALLS AUTHORITATIVE AND CUTTING EDGE RNA PROTEIN COMPLEXES AND INTERACTIONS METHODS AND PROTOCOLS SECOND EDITION AIMS TO BE COMPREHENSIVE GUIDE FOR RESEARCHERS IN THE FIELD

RNA BINDING PROTEINS ARE AN EXCITING AREA OF RESEARCH IN GENE REGULATION A MULTITUDE OF RNA PROTEIN INTERACTIONS ARE USED TO REGULATE GENE EXPRESSION INCLUDING PRE MRNA SPLICING POLYADENYLATION EDITING TRANSPORT CYTOPLASMIC TARGETING TRANSLATION AND MRNA TURNOVER IN ADDITION TO THESE POST TRANSCRIPTIONAL PROCESSES RNA PROTEIN INTERACTIONS PLAY A KEY ROLE IN TRANSCRIPTION AS ILLUSTRATED BY THE LIFE CYCLE OF RETROVIRUSES UNLIKE DNA THE STRUCTURE OF RNA IS HIGHLY VARIABLE AND CONFORMATIONALLY FLEXIBLE THUS CREATING A NUMBER OF UNIQUE BINDING SITES AND THE POTENTIAL FOR COMPLEX REGULATION BY RNA BINDING PROTEINS ALTHOUGH THERE IS A WIDE RANGE OF TOPICS INCLUDED IN THIS VOLUME GENERAL THEMES HAVE BEEN REPEATED HIGHLIGHTING THE OVERALL INTEGRATIVE NATURE OF RNA BINDING PROTEINS THE CHAPTERS HAVE BEEN SEPARATED INTO THREE DIFFERENT SECTIONS TRANSLATIONAL CONTROL MRNA METABOLISM AND HORMONAL AND HOMEOSTATIC REGULATION THE CHAPTERS OF THIS VOLUME WERE WRITTEN WITH THE SEASONED INVESTIGATOR AND STUDENT IN MIND SUMMARIES OF KEY CONCEPTS ARE REVIEWED WITHIN EACH CHAPTER AS WELL AS GUIDING QUESTIONS THAT CAN BE USED TO STIMULATE CLASS DISCUSSIONS THE EDITORS OF THIS VOLUME HOPE THAT THIS COMPENDIUM EDUCATES ENTHRALLS AND STIMULATES THE READERS TO LOOK TO THE FUTURE POSSIBILITIES IN THIS RAPIDLY EVOLVING FIELD

TRANSFER RNA IN PROTEIN SYNTHESIS IS A COMPREHENSIVE VOLUME FOCUSING ON IMPORTANT ASPECTS OF CODON USAGE SELECTION AND DISCRIMINATION IN THE GENETIC CODE THE MANY DIFFERENT FUNCTIONS OF TRNA AND THE SPECIALIZED ROLES OF THE CORRESPONDING CODEWORDS IN PROTEIN SYNTHESIS FROM INITIATION THROUGH TERMINATION ARE THOROUGHLY DISCUSSED VARIATIONS THAT OCCUR IN THE INITIATION PROCESS IN READING THE GENETIC CODE AND IN THE SELECTION OF CODONS ARE DISCUSSED IN DETAIL THE BOOK ALSO EXAMINES THE ROLE OF MODIFIED NUCLEOSIDES IN TRNA INTERACTIONS TRNA DISCRIMINATION IN AMINOACYLATION CODON DISCRIMINATION IN TRANSLATION AND SELECTIVE USE OF TERMINATION CODONS OTHER TOPICS COVERED INCLUDE THE ADAPTATION OF THE TRNA POPULATION TO CODON USAGE IN CELLS AND CELLULAR ORGANELLES THE OCCURENCE OF UGA AS A CODON FOR SELENOCYSTEINE IN THE UNIVERSAL GENETIC CODE NEW INSIGHTS INTO TRANSLATIONAL CONTEXT EFFECTS AND IN CODON BIAS AND THE MOLECULAR BIOLOGY OF TRNA IN RETROVIRUSES THE CONTRIBUTIONS OF OUTSTANDING MOLECULAR BIOLOGISTS ENGAGED IN TRNA RESEARCH AND PROMINENT

investigators from other scientific disciplines specifically retroviral research make transfer rna in protein synthesis an essential reference work for microbiologists biochemists molecular biologists geneticists and other researchers involved in protein synthesis research

rna and protein synthesis

the central role of rna in many cellular processes in biotechnology and as pharmaceutical agents has created an interest in experimental methods applied to rna molecules this book provides scientists with a comprehensive collection of thoroughly tested up to date manuals for investigating rna protein complexes in vitro the protocols can be performed by researchers trained in standard molecular biological techniques and require a minimum of specialized equipment the procedures include recommendation of suppliers of reagents

a practical and self contained introduction to methods of researching the structure and function of the ribosome in light of the increasing recognition of the potential capability of rna molecules to act as molecular catalysts also describes protein synthesis and cell free synthesizing systems annotation copyrighted by book news inc portland or

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