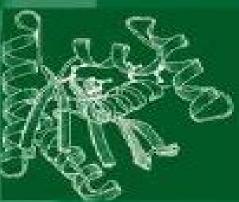# Small RNAs
Analysis and Regulatory Functions

Wolfgang Nellen
Christian Hammann (Eds.)

Small Rnas Analysis And Regulatory Functions

Olga Soutourina,Florence Hommais

Small Rnas Analysis And Regulatory Functions:

<u>Small RNAs:</u> Wolfgang Nellen,2006 In recent years Molecular Biology has experienced an unprecedented revolution by the discovery of functional small RNAs The number of cellular processes in which non coding RNAs are involved is growing rapidly and include gene regulation on the transcriptional post transcriptional and translational level To complicate matters these processes seem to be strongly interconnected on the one hand and diverse among different organisms on the other This volume describes strategies for the discovery and validation of small RNAs and provides a snapshot of our current understanding of the different mechanisms triggered by small RNAs **Small RNAs as a Diverse Toolkit of Bacteria** Olga N. Ozoline,Klaus Neuhaus,2022-01-05 **The Chlamydomonas Sourcebook** Ursula Goodenough,2023-02-15 The Chlamydomonas Sourcebook 3rd Edition Introduction to Chlamydomonas and Its Laboratory Use Volume 1 The gold standard reference covering the basic biology of the Chlamydomonas alga and techniques for its laboratory analysis Originally published as the standalone Chlamydomonas Sourcebook then expanded as the first volume in a three part comprehensive gold standard reference The Chlamydomonas Sourcebook Introduction to Chlamydomonas and Its Laboratory Use has been fully revised and updated to include a wealth of new resources for the Chlamydomonas community Early chapters cover current understandings of its taxonomy ultrastructure cell and life cycles and nuclear and organelle genomes followed by technique oriented chapters covering such topics as cell culture mutagenesis genetic analysis construction of mutant libraries and protein localization using immunofluorescence This volume presents the latest in research and best practices making it a must have resource for researchers and students working in plant science and photosynthesis fertility mammalian vision and biochemistry crop scientists plant physiologists and plant molecular and human disease biologists Remains the only complete reference to provide both the historical background and the most up to date information and applications on Chlamydomonas Includes best practices for applications in research including methods for culture genetic analysis genomic and transcriptomic analysis and mutant screening Helps researchers solve common laboratory problems provides details on the properties of particular strains and offers a comprehensive survey of molecular approaches Provides a broad perspective for studies in cell and molecular biology genetics plant physiology and related fields *MicroRNAs in Plant Development and Stress Responses* Ramanjulu Sunkar,2012-02-21 Precise regulation of gene expression in both time and space is vital to plant growth development and adaptation to biotic and abiotic stress conditions This is achieved by multiple mechanisms with perhaps the most important control being exerted at the level of transcription However with the recent discovery of microRNAs another ubiquitous mode of gene regulation that occurs at the post transcriptional level has been identified MicroRNAs can silence gene expression by targeting complementary or partially complementary mRNAs for degradation or translational inhibition Recent studies have revealed that microRNAs play fundamental roles in plant growth and development as well as in adaptation to biotic and abiotic stresses This book highlights the roles of individual miRNAs

that control and regulate diverse aspects of plant processes <u>Regulating with RNA in Bacteria and Archaea</u> Gisela Storz,Kai Papenfort,2020-07-10 Revealing the many roles of RNA in regulating gene expression For decades after the discoveries of messenger RNA transfer RNA and ribosomal RNA it was largely assumed that the role of RNA in the cell was limited to shuttling the genomic message chaperoning amino acids and toiling in the ribosomes Eventually hints that RNA molecules might have regulatory roles began to appear With the advent of genomics and bioinformatics it became evident that numerous other RNA forms exist and have specific functions including small RNAs sRNA RNA thermometers and riboswitches to regulate core metabolic pathways bacterial pathogenesis iron homeostasis quorum sensing and biofilm formation All of these functions and more are presented in Regulating with RNA in Bacteria and Archaea written by RNA biologists from around the globe Divided into eight sections RNases and Helicases Cis Acting RNAs Cis Encoded Base Pairing RNAs Trans Encoded Base Pairing RNAs Protein Titration and Scaffolding General Considerations Emerging Topics and Resources this book serves as an excellent resource for established RNA biologists and for the many scientists who are studying regulated cellular systems It is no longer a fair assumption that gene expression regulation is the provenance of proteins only or that control is exerted primarily at the level of transcription This book makes clear that regulatory RNAs are key partners along with proteins in controlling the complex interactions and pathways found within prokaryotes <u>Roles of Regulatory RNAs in Bacterial Pathogens</u> Olga Soutourina,Florence Hommais,2022-07-07 *RNA Delivery Function for Anticancer Therapeutics* Loutfy H. Madkour,2022-01-25 This book presents an overview of the current status of translating the RNAi cancer therapeutics in the clinic a brief description of the biological barriers in drug delivery and the roles of imaging in aspects of administration route systemic circulation and cellular barriers for the clinical translation of RNAi cancer therapeutics and with partial content for discussing the safety concerns It then focuses on imaging guided delivery of RNAi therapeutics in preclinical development including the basic principles of different imaging modalities and their advantages and limitations for biological imaging With growing number of RNAi therapeutics entering the clinic various imaging methods will play an important role in facilitating the translation of RNAi cancer therapeutics from bench to bedside RNAi technique has become a powerful tool for basic research to selectively knock down gene expression in vitro and in vivo Our scientific and industrial communities have started to develop RNAi therapeutics as the next class of drugs for treating a variety of genetic disorders such as cancer and other diseases that are particularly hard to address with current treatment strategies Key Features Provides insight into the current advances and hurdles of RNAi therapeutics Accelerates RNAi miRNAs and siRNA drug development for cancer therapy from bench to bedside Addresses various modifications and novel delivery strategies for miRNAs piRNAs and siRNA delivery in anticancer therapeutics Explores the need for the interaction of hematologists cell biologists immunologists and material scientists in the development of novel cancer therapies Describes the current status of clinical trials related to miRNA and siRNA based cancer therapy Presents remaining issues that need to

be overcome to establish successful therapies **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 Systems Biology Nikolaus Rajewsky,Stefan Jurga,Jan Barciszewski,2018-08-29 Many breakthroughs in experimental devices advanced software as well as analytical methods for systems biology development have helped shape the way we study DNA RNA and proteins on the genomic transcriptional translational and posttranslational level This book highlights the comprehensive topics that encompass systems biology with enormous progress in the development of genome sequencing proteomic and metabolomic methods in designing and understanding biological systems Topics covered in this book include fundamentals of modelling networks circuits and pathways spatial and multi cellular systems image driven systems biology evolution noise and decision making in single cells systems biology of disease and immunology and personalized medicine Special attention is paid to epigenomics in particular environmental conditions that impact genetic background The breadth of exciting new data towards discovering fundamental principles and direct application of epigenetics in agriculture is also described The chapter Deciphering the Universe of RNA Structures and Trans RNA RNA Interactions of Transcriptomes in vivo from Experimental Protocols to Computational Analyses is available open access under a CC BY 4 0 license via link springer com **Role of RNA in Molecular Diagnostics of Cancer** Cesar Wong,William Cho,Lawrence Wing Chi Chan,2020-07-01 **Bioinformatics of Non-Coding RNAs with Applications to Biomedicine: Recent Advances and Open Challenges** Carlo Maria Croce,Alfredo Ferro,Alessandro Laganà,2017-01-27 The recent discovery of small and long non coding RNAs ncRNAs has represented a major breakthrough in the life sciences

These molecules add a new layer of complexity to biological processes and pathways by revealing a sophisticated and dynamic interconnected system whose structure is just beginning to be uncovered Genetic and epigenetic aberrations affecting ncRNA gene sequences and their expression have been linked to a variety of pathological conditions including cancer cardiovascular and neurological diseases Latest advances in the development of high throughput analysis techniques may help to shed light on the complex regulatory mechanisms in which ncRNA molecules are involved Bioinformatics tools constitute a unique and essential resource for non coding RNA studies providing a powerful technology to organize integrate and analyze the huge amount of data produced daily by wet biology experiments in order to discover patterns identify relationships among heterogeneous biological elements and formulate functional hypotheses This Research Topic reviews current knowledge introduces novel methods and discusses open challenges of this exciting and innovative field in connection with the most important biomedical applications It consists of four reviews and six original research and methods articles spanning the full scope of the Research Topic **Role of Mitochondria-Associated Non-Coding RNAs in Intracellular Communication** Samarjit Das,Eleonora Leucci,Eric Barrey,Nina Entelis,John Hollander,Veronica Andrea Burzio,2022-09-30 Computational Biology of Non-Coding RNA Xin Lai,Shailendra Gupta,Julio Vera Gonzalez,2024-12-19 This second edition details a collection of state of art methods including identification of novel ncRNAs and their targets functional annotation and disease association in different biological contexts Chapters guide readers through an overview of disease specific ncRNAs computational methods and workflows for ncRNA discovery annotation based on high throughput sequencing data bioinformatics tools and databases for ncRNA analyses network based methods and kinetic modelling of ncRNA mediated gene regulation Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Computational Biology of Non Coding RNA Methods and Protocols Second Edition aims to ensure successful results in the further study of this vital field **Non-coding RNA in immunotherapies and immune regulation** Bertrand Kaeffer,Antoine Louveau,Chen Chen,2023-01-02 **MicroRNA in Human Malignancies** Massimo Negrini,George A. Calin,Carlo M. Croce,2022-02-18 MicroRNA in Human Malignancies offers a deep overview of the role and translational significance of miRNAs in the development of cancer and other malignancies The book establishes the foundations of the field by covering essential mechanisms and the translational potential of miRNAs in the field of oncology Specific topics covered include invasion and metastasis miRNAs and metabolism and opportunities of miRNAs in therapeutics Chapters on diseases include content on disease related pathophysiology as well as diagnostic prognostic and predictive value This book is an essential reference for students entering the field as well as researchers and investigators Provides fundamental and translational chapters that facilitate the acquisition of knowledge needed to design and perform innovative miRNA related research

studies Synthesizes current research with a critical review on the field Offers in depth research by leading experts in the field   *The Involvement of Systemic Homeostasis in Tumour Biology* Wei-Lin Jin,Hongying Pan,Qian Wang,Gerhard Schmalz,2023-10-13 Systemic homeostatic mechanisms include several aspects such as metabolic neuroendocrine immune and physiological homeostasis Irreversible damage or reversible imbalance of such homeostatic processes may initiate cancers by altering the regulation of the molecular machinery Systemic homeostasis related genes have been found to be intimately involved in oncological processes and in some instances have shown prognostic value Thus future gene targeting approaches for cancer should not only focus on classical cancer drivers but also address systemic homeostasis related genetic mechanisms Identification of systemic homeostasis related genes with diagnostic prognostic or therapeutic value can advance translational cancer research Increasing numbers of research studies have reported systemic homeostasis related genes relevance to various types of cancer For example cancer cells have been shown to activate a critical mechanism of oxygen homeostasis hypoxia inducible factors HIFs family genes in order to adapt to the tumor microenvironment and develop into a more aggressive phenotype In addition methylene tetrahydrofolate dehydrogenase MTHFD family genes are involved in mitochondrial one carbon metabolism which is essential for maintaining systemic metabolic homeostasis and have recently been found overexpressed in many cancers and have been correlated to poor survival outcomes The overexpression of transferrin family genes with iron transporting function has been linked with iron accumulation which is a known initiating factor in cancer Another example is Forkhead box O FOXO family genes which serve as a critical regulator of immune homeostasis and can regulate cancer immunity by negatively regulating the expression of immunosuppressive gene programmed death 1 ligand 1 PD L1 Apart from these examples other systemic homeostatic mechanisms such as glucose homeostasis energy homeostasis lipid homeostasis phosphate homeostasis cholesterol homeostasis and mineral homeostasis may also be implicated in cancer pathogenesis Although accruing research is focused on describing systemic homeostatic mechanisms in cancer biology several research questions remain unaddressed The utilization of recent analytic tools and bioinformatics as systems biology approaches has the potential to address these research gaps Therefore in this special issue we will collect articles focusing on the application of bioinformatics and systems biology based investigations of systemic homeostatic mechanisms in malignant diseases Both original research and review articles are welcomed however publications based on the analysis on only one database will not be accepted e g TCGA   *Research Awards Index* ,1989

   Virulence Mechanisms of Bacterial Pathogens Indira T. Kudva,Nancy A. Cornick,Paul J. Plummer,Qijing Zhang,Tracy L. Nicholson,John P. Bannantine,Bryan H. Bellaire,2020-07-10 Ground breaking overview of an enduring topic Despite the use of antibiotics bacterial diseases continue to be a critical issue in public health and bacterial pathogenesis remains a tantalizing problem for research microbiologists This new edition of Virulence Mechanisms of Bacterial Pathogens broadly covers the knowledge base surrounding this topic and presents recently unraveled bacterial virulence strategies and cutting

edge therapies A team of editors led by USDA scientist Indira Kudva compiled perspectives from experts to explain the wide variety of mechanisms through which bacterial pathogens cause disease the host interface host cell enslavement and bacterial communication secretion defenses and persistence A collection of reviews on targeted therapies rounds out the seven sections of this unique book The new edition provides insights into some of the most recent advances in the area of bacterial pathogenesis including how metabolism shapes the host pathogen interface interactions across species and genera mechanisms of the secretion systems evasion survival and persistence mechanisms new therapies targeting various adaptive and virulence mechanisms of bacterial pathogens Written to promote discussion extrapolation exploration and multidimensional thinking Virulence Mechanisms of Bacterial Pathogens serves as a textbook for graduate courses on bacterial pathogenesis and a resource for specialists in bacterial pathogenicity such as molecular biologists physician scientists infectious disease clinicians dental scientists veterinarians molecular biologists industry researchers and technicians **Biomedical Index to PHS-supported Research** ,1988 *Bioinformatics in Aquaculture* Zhanjiang (John) Liu,2017-01-24 Bioinformatics derives knowledge from computer analysis of biological data In particular genomic and transcriptomic datasets are processed analysed and whenever possible associated with experimental results from various sources to draw structural organizational and functional information relevant to biology Research in bioinformatics includes method development for storage retrieval and analysis of the data Bioinformatics in Aquaculture provides the most up to date reviews of next generation sequencing technologies their applications in aquaculture and principles and methodologies for the analysis of genomic and transcriptomic large datasets using bioinformatic methods algorithm and databases The book is unique in providing guidance for the best software packages suitable for various analysis providing detailed examples of using bioinformatic software and command lines in the context of real world experiments This book is a vital tool for all those working in genomics molecular biology biochemistry and genetics related to aquaculture and computational and biological sciences

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