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Shao-Yao Ying *Editor*

MicroRNA Protocols

Second Edition

 Springer Protocols

Microrna Protocols Methods In Molecular Biology

Nobuyoshi Kosaka

Microrna Protocols Methods In Molecular Biology:

MicroRNA Profiling Sweta Rani,2022-11-28 This second edition provides updated and comprehensive methods on miRNA biogenesis and their role in the development and progression of various human diseases Chapters detail miRNA biogenesis isolating RNA extracellular vesicles EVs circulating miRNAs analyzing miRNA and miRDeep P2 protocols for total RNA isolation from cells cell derived products isolation and characterization of exosomes serum plasma specimens and software tools Written in the 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 protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and cutting edge MicroRNA Profiling Methods and Protocols Second Edition aims to provide comprehensive and accessible methods to undergraduate graduate and established scientist

Microrna Protocols Shao-Yao Ying,2016-05-01 Extensive studies have been conducted on the identification biogenesis and processing of microRNA miRNA as well as research on the exact mechanism by which miRNAs bring about translational silencing of their targets In addition numerous publications point to an important role of miRNAs in development reprogramming epigenetics pathogenesis of cancer oncogenes and tumor suppressors biomarkers of various disease onset and regulation of adipogenesis and obesity yet many questions still remain In MicroRNA Protocols Second Edition experts in the field provide up to date coverage of this diverse area of study The specific chapters of this edition are related to the analysis of miRNA targets and expression profiling various methods to determine its regulation of gene expression the preparation and isolation of miRNAs in specific tissues its detection in the saliva and potential application in cosmetics wound healing and prostate cancer 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 known pitfalls Fully updated and easy to use MicroRNA Protocols Second Edition aims to stimulate readers to explore diverse ways to understand the mechanisms in which miRNAs facilitate the molecular aspects of not only biomedical research but also a wide range of other research fields

MicroRNA

Detection and Target Identification Tamas Dalmay,2023-01-23 This updated volume reflects new and evolved techniques to study detection profiling and manipulation of microRNAs miRNAs in plants and animals After overviews of how best to detect identify and validate microRNAs the book continues by exploring state of the art protocols for microRNA detection approaches to profile the expression level of microRNAs spatial expression analysis describe in silico analysis of microRNAs and their targets as well as protocols for functional analysis of microRNAs and their targets by CRISPR Cas Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date MicroRNA Detection and Target Identification Methods and Protocols

Second Edition aims to ensure successful results in the further study of this vital field **MicroRNA Protocols** Shao-Yao Ying,2008-02-04 MicroRNA Protocols provides diverse novel and useful descriptions of miRNAs in several species including plants worms flies fish chicks mice and humans These include some useful adaptations and applications that could be relevant to the wider research community who are already familiar with the identification of miRNAs This volume will stimulate the reader to explore diverse ways to understanding the mechanism in which miRNAs facilitate the molecular aspects of the biomedical research **MicroRNAs in Development** Tamas Dalmay,2011-03-17 Since the discovery of microRNAs developmental biologists have striven to understand the role of miRNAs in development and disease MicroRNAs in Development Methods and Protocols collects contributions from expert researchers in order to provide practical guidelines to this complex study Divided into three convenient sections this detailed volume covers various techniques to detect and profile miRNA expression followed by protocols to manipulate the activity of miRNAs in various organisms and it concludes with a section that outlines different methods to identify and validate miRNA targets in animals and plants Written in the highly successful Methods in Molecular BiologyTM series format chapters contain introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and accessible MicroRNAs in Development Methods and Protocols serves as a practical guide for scientists of all backgrounds and conveys the appropriate sense of fascination associated with this vital field of research **Plant MicroRNAs** Stefan de Folter,2025-05-16 This second volume is a collection of new and updated protocols to study miRNA functions in plants Chapters guide readers from the identification and detection of plant miRNAs bioinformatic analyses to strategies for functional analysis of miRNAs and their targets Furthermore it contains a few introductory chapters on plant miRNA functioning and on their conservation and evolution 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 Plant MicroRNAs Methods and Protocols Second Edition aims to provide protocols to help new researchers while also supporting established researchers to broaden the scope of their investigations **MicroRNA and Cancer** Wei Wu,2018-08-23 This volume details basic principles of experimental and computational methods for the study of microRNAs in cancer research and therefore provides a firm grounding for those who wish to develop further applications 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 MicroRNA and Cancer Methods and Protocols Second Edition aims to ensure successful results in the further study of this vital field **Circulating MicroRNAs** Nobuyoshi Kosaka,2013 MicroRNAs miRNAs are small non coding RNAs that regulate various biological phenomena such as

development and homeostasis. The dysregulation of miRNA leads to disease progression particularly cancer. In Circulating MicroRNAs Methods and Protocols expert researchers in the field detail recent advances in the isolation, purification and analysis of circulating miRNAs from a variety of sources for research. The book is divided into three main topics. The first section involves the study of secretory miRNAs in cell-cell communication and the second the study of circulating miRNAs in body fluids. The last describes the novel techniques used to study circulating miRNAs. 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 key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Circulating MicroRNAs Methods and Protocols seeks to aid scientists in dealing with the recent advances of RNAi technology from the bench to the bedside.

RNAi and MicroRNA-Mediated Gene

Regulation in Stem Cells Baohong Zhang, Edmund J. Stellwag, 2010-08-16. This cutting edge text will be a valuable resource for scientists and aspiring graduate students interested in the intersection of RNAi, miRNA and stem cell molecular biology and exciting areas of research such as regenerative medicine and cancer.

MicroRNA Protocols Shao-Yao

Ying, 2006-04-01. MicroRNA Protocols provides diverse, novel and useful descriptions of miRNAs in several species including plants, worms, flies, fish, chicks, mice and humans. These include some useful adaptations and applications that could be relevant to the wider research community who are already familiar with the identification of miRNAs. This volume will stimulate the reader to explore diverse ways to understanding the mechanism in which miRNAs facilitate the molecular aspects of the biomedical research.

miRNA Biogenesis Ulf Andersson, Vang Ørom, 2018-06-30. This detailed volume collects chapters that seek to expand our knowledge of molecular events and extended molecular networks in gene regulation. The contents explore numerous aspects of miRNA biogenesis, a sophisticated series of events that assure a finely tuned regulation of miRNA expression and activity. Written for the highly successful Methods in Molecular Biology series, 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 practical, miRNA Biogenesis Methods and Protocols aims to contribute to the further development of knowledge and application of miRNA biogenesis, both in the basic research lab and in the clinic.

[Next-Generation MicroRNA Expression Profiling Technology](#) Jian-Bing Fan, 2011-12-08. The rapid pace of microRNA miRNA research continues to drive the advances of techniques for miRNA expression profiling and innovative technologies that are more sensitive, specific, quantitative and that are compatible with a wide range of biospecimens have been developed during the past few years. In Next Generation MicroRNA Expression Profiling Technology Methods and Protocols, expert researchers in the field contribute detailed examinations of the most current approaches being used today. This volume includes comprehensive coverage of methodologies that have been developed for miRNA profiling as well as next gen sequencing technology, miRNA databases and specialized applications such

as cancer studies and miRNA based non invasive biomarker development Written in the highly successful Methods in Molecular BiologyTM series format chapters feature 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 Next Generation MicroRNA Expression Profiling Technology Methods and Protocols provides an ideal guide for novices and experts alike who are seeking to utilize these powerful technologies *MicroRNA Target Identification* Alessandro Laganà,2019-04-17 This detailed book provides a comprehensive state of the art presentation of all aspects of miRNA target identification from the prediction of miRNA binding sites on their target molecules to their experimental validation and downstream functional analysis It also explores methodologies and tools for target prediction and related analysis as well as tutorials on specific tasks tools and analysis pipelines Written for the highly successful Methods in Molecular Biology series 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 practical MicroRNA Target Identification Methods and Protocols updates on basic and advanced concepts involving miRNA target identification and delivers an extremely useful guide to specific computational tasks and analysis in miRNA research *RNA Silencing* Gordon Carmichael,2008-02-04 A collection of readily reproducible methods for the design preparation and use of RNAs for silencing gene expression in cells and organisms The techniques range widely and include methods addressing the biochemical aspects of the silencing machinery RNA silencing in non mammalian organisms and the in vivo delivery of siRNAs and silencing vectors There are also techniques for designing preparing and using RNAs to silence gene expression for fine tuning regulation by targeting specific isoforms of a given gene and for the study and use of microRNAs The protocols follow the successful Methods in Molecular BiologyTM series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls *MiRNA Maturation* Christoph Arenz,2014 In miRNA Maturation Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study miRNA maturation These included established methods such as fluorescent and non fluorescent methods for homogenous assays of Dicer mediated miRNA maturation or an in vivo assay for Drosha activity Moreover the volume also contains useful but less common methods that are hard to find elsewhere 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 key tips on troubleshooting and avoiding known pitfalls Authoritative and practical miRNA Maturation Methods and Protocols seeks to widen the view on miRNA as biological mediator and potential drug target *RNAi and Small Regulatory RNAs in Stem Cells* Baohong Zhang,2017-08-01 This detailed collection provides an accessible compendium of up to date methods focused on the study of RNAi and small

regulatory miRNAs in stem cells Beginning with a brief introductory section the volume continues by exploring methods and protocols for RNAi screening transfection and the knockdown of specific genes and pathways in several animal species including humans and mice recently developed methods for miRNA expression and functional analysis as well as usage of CRISPR Cas 9 to knockout an individual gene for functional studies Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics list of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Practical and authoritative RNAi and Small Regulatory RNAs in Stem Cells Methods and Protocols aims to accelerate progress in this crucial field by reducing the time required to decipher and put into practice procedures published in the literature **New**

and Emerging Proteomic Techniques Dobrin Nedelkov,Randall W. Nelson,2008-02-04 Leading researchers and innovators describe in step by step detail the latest techniques that promise to significantly impact the practice of proteomics as well as its success in developing novel clinical agents The methods span the entire spectrum of top down and bottom up approaches including microarrays gels chromatography and affinity separations and address every aspect of the human proteome both quantitatively and qualitatively The techniques of protein detection utilized are diverse and range from fluorescence and resonance light scattering to surface plasmon resonance and mass spectrometry The protocols follow the successful Methods in Molecular Biology™ series format each offering step by step laboratory instructions an introduction outlining the principles behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls 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 Mass Spectrometry Data Analysis in Proteomics Rune Matthiesen,2008-02-02

Mass Spectrometry Data Analysis in Proteomics is an in depth guide to the theory and practice of analyzing raw mass spectrometry MS data in proteomics As MS is a high throughput technique proteomic researchers must attend carefully to the associated field of data analysis and this volume outlines available bioinformatics programs algorithms and databases available for MS data analysis General guidelines for data analysis using search engines such as Mascot Xtandem and VEMS

are provided with specific attention to identifying poor quality data and optimizing search parameters. Several different types of MS data are discussed followed by a description of optimal methods for conversion of raw data into peak lists for input to search engines. Choosing the most accurate and complete databases is emphasized and a report of available sequence databases is included. Methods for assembling expressed sequence tags (ESTs) into assembled nonredundant databases are provided along with protocols for further processing the sequences into a format suitable for MS data. Mass Spectrometry Data Analysis in Proteomics describes publicly available applications whenever possible.

MicroRNAs and the Immune System Silvia Monticelli, 2016-08-23

In recent years the critical role of microRNAs has been revealed within the biology of cells that constitute the immune system. In *MicroRNAs and the Immune System Methods and Protocols* expert researchers explore the latest techniques for studying miRNA expression including the most up to date data on splinted ligation and qRT-PCR assays as well as high throughput profiling through cloning, deep sequencing and microarrays. Chapters outline methods to study miRNA functions in various cell types from a single cell type level to entire model organisms and present studies of miRNAs in the context of viruses and the immune response. Tools are also provided to help navigate bioinformatics databases on miRNAs and their targets. Composed in the highly successful *Methods in Molecular Biology*™ series format each chapter contains a brief introduction, step by step methods, a list of necessary materials and a Notes section which shares tips on troubleshooting and avoiding known pitfalls. *Contemporary and innovative MicroRNAs and the Immune System Methods and Protocols* is an essential handbook for immunologists, biochemists and molecular biologists.

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