

Gaetano Santulli *Editor*

microRNA: Medical Evidence

From Molecular Biology
to Clinical Practice

Microrna Evidence Molecular Clinical Experimental

**Liang Cheng,Xin Zhang,Chuan-Xing
Li,Rui Guo**



Microrna Evidence Molecular Clinical Experimental:

microRNA: Medical Evidence Gaetano Santulli, 2015-12-11 This volume explores microRNA function in a wide array of human disorders providing a clinical basis for precision medicine and personalized therapies using these molecules The twenty one chapters all authored by internationally renowned experts open with an introduction contextualizing microRNA manipulation within today's initiatives towards precision medicine The following chapters explore the clinical role of microRNAs in the diagnosis and treatment of metabolic and cardiovascular disorders focusing on mitochondrial fitness arterial hypertension cardiovascular remodeling cerebrovascular disease pulmonary hypertension diabetic kidney disease and kidney transplantation The subsequent chapters discuss the importance of microRNAs in the wound healing process and in skin disease in the pathogenesis of allergy in human ovulation and in infection The book concludes with chapters which outline the emerging role of microRNAs in doping and detail microRNA profiling microRNA Medical Evidence is an ideal companion to both microRNA Basic Science and microRNA Cancer Taken together these three books provide a state of the art overview of this rapidly expanding and fascinating field from the molecular level to clinical practice It will be invaluable to medical students physicians and researchers as a complete and unique guide in the exploration of microRNA in basic science cancer and clinical practice

Bioinformatics Analysis of Omics Data for Biomarker Identification in Clinical Research, Volume II Lixin Cheng, Hongwei Wang, Shibiao Wan, 2023-09-05 This Research Topic is part of a series with Bioinformatics Analysis of Omics Data for Biomarker Identification in Clinical Research Volume I <https://www.frontiersin.org/research-topics/13816/bioinformatics-analysis-of-omics-data-for-biomarker-identification-in-clinical-research> The advances and the decreasing cost of omics data enable profiling of disease molecular features at different levels including bulk tissues animal models and single cells Large volumes of omics data enhance the ability to search for information for preclinical study and provide the opportunity to leverage them to understand disease mechanisms identify molecular targets for therapy and detect biomarkers of treatment response Identification of stable predictive and interpretable biomarkers is a significant step towards personalized medicine and therapy Omics data from genomics transcriptomics proteomics epigenomics metagenomics and metabolomics help to determine biomarkers for prognostic and diagnostic applications Preprocessing of omics data is of vital importance as it aims to eliminate systematic experimental bias and technical variation while preserving biological variation Dozens of normalization methods for correcting experimental variation and bias in omics data have been developed during the last two decades while only a few consider the skewness between different sample states such as the extensive over-repression of genes in cancers The choice of normalization methods determines the fate of identified biomarkers or molecular signatures From these considerations the development of appropriate normalization methods or preprocessing strategies may promote biomarker identification and facilitate clinical decision making

Molecular Pathway Analysis Using High-Throughput OMICS Molecular Data Anton Buzdin, 2024-10-26 The field molecular

pathway analysis evolves rapidly and many progressive methods have recently been discovered Molecular Pathway Analysis Using High Throughput OMICS Data contains the largest collections of molecular pathways For the first time guidelines on how to do genomic epigenetic transcriptomic proteomic and metabolomic data analysis in real world research practice are given Molecular Pathway Analysis Using High Throughput OMICS Molecular Data also focuses on the pathway analysis applications for solving tasks in biotechnology pharmaceuticals and molecular diagnostics It demonstrates how pathway analysis can be applied for the research and treatment of chronic and acute diseases for next generation molecular diagnostics for drug design and preclinical testing relevant real world examples molecular tests and web resources will be reviewed in depth The book shows a tendency of erasing the borders between chemistry physics informatics mathematics biology and medicine by means of novel research approaches and instruments providing a truly multidisciplinary approach Provides theoretical insights links to available resources and their descriptions and protocols related to multiple possibilities and options of the molecular pathway analysis Elucidates unique instruments i for the quantitative pathway analysis using metabolomic data and ii for algorithmic hypothesis free reconstruction and functional annotation of the molecular pathways that have a strong potential to revolutionize the field Includes intuitive practical guidelines on the analysis of genomic epigenetic transcriptomic proteomic and metabolomic data at the molecular pathway level for non bioinformaticians Provides state of the art in the field of Big molecular data analysis for research medicine biotechnology pharmaceuticals and next generation molecular diagnostics

Bioinformatics Analysis of Omics Data for Biomarker Identification in Clinical Research

Lixin Cheng,Yunyan Gu,Yanni Sun,Shibiao Wan,Hongwei Wang,2022-01-10 AACR 2019 Proceedings: Abstracts 1-2748

American Association for Cancer Research,2019-03-08 American Association for Cancer Research 2019 Proceedings

Abstracts 1 2748 Part A **Computational Epigenetics in Human Diseases, Cell Differentiation, and Cell**

Reprogramming, Volume I Jianzhong Su,Meng Zhou,Yongchun Zuo,Xiaotian Zhang,2021-02-24 **MicroRNA in**

Development and in the Progression of Cancer Shree Ram Singh,Pranela Rameshwar,2014-04-21 miRNAs are a class of

endogenous small non protein coding RNA molecules 22 nucleotides which are novel post transcriptional regulators of gene

expression Since we have hundreds of miRNAs the major challenge is now to understand their specific biological function In

fact the experimental evidence suggests that signaling pathways could be ideal candidates for miRNA mediated regulation

Several studies suggest that miRNAs affect the responsiveness of cells to signaling molecules such as WNT Notch TGF and

EGFR Altered expression of particular miRNAs has been implicated in the onset and development of cancer and could be

used as potential biomarkers for the disease Recently many studies have found miRNAs have crucial regulatory roles in

Cancer stem cells CSCs a kind of tumor initiating cells TICs and dormancy Findings also suggest that DNA methylation may

be important in regulating the expression of many miRNAs in several cancer initiating cells Several miRNAs are known to

either upregulated or downregulated in CSCs when compared to non cancerous cells from the same tissues CSCs are a small

subpopulation of cells identified in a variety of tumors and involve in self renewal differentiation chemoresistance and tumorigenesis The volume will give a comprehensive account of important advancements in the area of miRNAs and cancer

Identification of immune-related biomarkers for cancer diagnosis based on multi-omics data Liang Cheng,Xin Zhang,Chuan-Xing Li,Rui Guo,2023-02-02 **Intelligent Data Analysis: Developing New Methodologies Through**

Pattern Discovery and Recovery Wang, Hsiao-Fan,2008-07-31 Pattern Recognition has a long history of applications to data analysis in business military and social economic activities While the aim of pattern recognition is to discover the pattern of a data set the size of the data set is closely related to the methodology one adopts for analysis Intelligent Data Analysis Developing New Methodologies Through Pattern Discovery and Recovery tackles those data sets and covers a variety of issues in relation to intelligent data analysis so that patterns from frequent or rare events in spatial or temporal spaces can be revealed This book brings together current research results problems and applications from both theoretical and practical approaches **Advances in neuroprotective agents for cerebral ischemia treatment** Yongjun Sun,Li-Nan

Zhang,Toshiko Yamazawa,Zibin Gao,Long Wang,2023-04-20 Advances in Mechanisms of Renal Fibrosis Hui Y. Lan,David

J. Nikolic-Paterson,2018-07-26 Scarring of the glomerular and tubulointerstitial compartments is a hallmark of progressive kidney disease Renal fibrosis involves a complex interplay between kidney cells leukocytes and fibroblasts in which transforming growth factor TGF plays a key role This eBook provides a comprehensive update on TGF signalling pathways and introduces a range of cellular and molecular mechanisms involved in renal fibrosis both upstream and downstream of TGF The wide variety of potential new targets described herein bodes well for the future development of effective therapies to tackle the major clinical problem of progressive renal fibrosis **MicroRNA** Junjie Xiao,2022-07-19 MicroRNA From

Bench to Bedside provides an in depth expansive overview of microRNA from fundamentals to clinical practice It presents researchers with detailed insights on the topic of microRNA exploring foundational knowledge that is followed by methodologies and the latest technologies for research and potential theragnostic and therapeutic applications for specific diseases The book consists of eight parts beginning with an introduction to microRNA and the current state of the field followed by sections on biogenesis and maturation of microRNA and methodology and bioinformatics where chapters focus on isolation and detection techniques Sections then move on to molecular mechanisms and gene regulation considering topics such as transcriptional regulation and epigenetic regulation as well as the role of microRNA as biomarkers Additionally microRNA and human disease and microRNA based therapeutics are explored focusing on a wide range of diseases such as cancer age related disease cardiovascular disease microRNA targeted therapy in hepatitis and therapeutic strategies for diabetes The book concludes with a discussion on advances and future perspectives in microRNA investigation Covers the topic of microRNA in detail from foundational knowledge to clinical application Explores the physiological and pathological roles of microRNAs in various human diseases including neurological cardiovascular and age related diseases

Discusses future directions and challenges in the field Includes chapters on methodology and bioinformatics for microRNA research Iron Deficiency and Excess: Diagnosis, Management and Impact on Human Health Patrícia Molz, Gomathi Ramaswamy, Piotr F. Czempik, 2025-10-30 Iron is a vital component of many proteins and enzymes in the human body playing a crucial role in oxygen transport hemoglobin cellular respiration and DNA synthesis Iron deficiency is a significant global health concern leading to anemia and impacting cognitive function growth and development Conversely iron overload can also be detrimental causing organ damage and other health issues This research topic aims to advance our understanding of iron nutrition and its impact on human health Therefore we aim to explore strategies to improve dietary iron intake particularly for populations at risk of deficiency Additionally the topic will investigate safe and effective iron supplementation approaches and their potential interactions with other dietary factors The topic will delve into the role of iron in various health conditions including anemia iron overload disorders and chronic diseases like heart disease and diabetes Finally advances in iron diagnostics such as iron related biomarkers algorithms and validation of POCTs will also be explored in this paper This Research Topic is open for original articles narrative review systematic review and meta analysis focusing on iron nutrition including Novel dietary sources of iron and strategies to enhance iron bioavailability from plant based foods Assessment of iron deficiency and iron overload using current and emerging techniques Development of safe and efficacious iron supplementation strategies for different populations Investigation of the role of iron in various health conditions including anemia iron overload disorders and chronic diseases Studies on the interaction of iron with other dietary components and its impact on health POCTs for assessing the iron deficiency status **Advances in Osteoimmunology** Claudine Blin-Wakkach, Teun J. de Vries, 2020-01-21 Regulatory RNAs in the Nervous System, 2nd Edition Tommaso Pizzorusso, Alessandro Cellerino, Laure Bally-Cuif, 2018-11-13 Until about a decade ago the non coding part of the genome was considered without function RNA sequencing studies have shown however that a considerable part of the non coding genome is transcribed and that these non coding RNAs nc RNAs can regulate gene expression Almost on weekly basis new findings reveal the regulatory role of nc RNAs exert in many biological processes Overall these studies are making increasingly clear that both in model organisms and in humans complexity is not a function of the number of protein coding genes but results from the possibility of using combinations of genetic programs and controlling their spatial and temporal regulation during development senescence and in disease by regulatory RNAs This has generated a novel picture of gene regulatory networks where regulatory nc RNAs represent novel layers of regulation Particularly well characterized is the role of microRNAs miRNAs small nc RNAs that bind to mRNAs and regulate gene expression after transcription This message is particularly clear in the nervous system where miRNAs have been involved in regulating cellular pathways controlling fundamental functions during development synaptic plasticity and in neurodegenerative disease It has also been shown that neuronal miRNAs are tightly regulated by electrical activity at the level of transcription biogenesis stability and specifically

targeted to dendrites and synapses Deregulation of expression of miRNAs is proposed not only as potential disease biomarker but it has been implicated directly in the pathogenesis of complex neurodegenerative disease This so called RNA revolution also lead to the exploitation of RNA interference and the development of related tools as potential treatment of a vast array of CNS disease that could benefit from regulation of disease associated genes In spite of these advancements the relatively young age of this field together with the inherent high molecular complexity of RNA regulation of biological processes have somewhat hindered its communication to the whole of the neuroscience community This Research Topic aims at improving this aspect by putting around the same virtual table scientists covering aspects ranging from basic molecular mechanisms of regulatory RNAs in the nervous system to the analysis of the role of specific regulatory RNAs in neurobiological processes of development plasticity and aging Furthermore we included papers analyzing the role of regulatory RNAs in disease models from neuromuscular to higher cognitive functions and more technically oriented papers dealing with new methodologies to study regulatory RNA biology and its translational potential

MicroRNA Cancer Regulation Ulf Schmitz,Olaf

Wolkenhauer,Julio Vera,2013-02-03 This edited reflects the current state of knowledge about the role of microRNAs in the formation and progression of solid tumours The main focus lies on computational methods and applications together with cutting edge experimental techniques that are used to approach all aspects of microRNA regulation in cancer We are sure that the emergence of high throughput quantitative techniques will make this integrative approach absolutely necessary in the near future This book will be a resource for researchers starting out with cancer microRNA research but is also intended for the experienced researcher who wants to incorporate concepts and tools from systems biology and bioinformatics into his work Bioinformaticians and modellers are provided with a general perspective on microRNA biology in cancer and the state of the art in computational microRNA biology

The Road from Nanomedicine to Precision Medicine Shaker A. Mousa,Raj

Bawa,Gerald F. Audette,2020-01-06 The enormous advances in nanomedicine and precision medicine in the past two decades necessitated this comprehensive reference which can be relied upon by researchers clinicians pharmaceutical scientists regulators policymakers and lawyers alike This standalone full color resource broadly surveys innovative technologies and advances pertaining to nanomedicine and precision medicine In addition it addresses often neglected yet crucial areas such as translational medicine intellectual property law ethics policy FDA regulatory issues nano nomenclature and artificial nano machines all accomplished in a user friendly broad yet interconnected format The book is essential reading for the novice and the expert alike in diverse fields such as medicine law pharmacy genomics biomedical sciences ethics and regulatory science The book s multidisciplinary approach will attract a global audience and serve as a valuable reference resource for industry academia and government

Aldosterone ,2019-01-24 Aldosterone Volume 109 the latest release in the Vitamins and Hormones series first published in 1943 covers the field of hormone action vitamin action X ray crystal structure physiology and enzyme mechanisms with this release focusing on topics relating to Aldosterone Research Aldosterone and

Micrornas the Evolution of the Mineralocorticoid Receptor Aldosterone and Kidney Micrornas Adipocyte Mineralocorticoid Receptor Regulation of Aldosterone Secretion Leptin and Aldosterone Cell and Ligand Specific Interactions in Mineralocorticoid Receptor Signaling Primary Aldosteronism Present and Future Aldosterone Producing Adenomas Overexpression of the Mineralocorticoid Receptor Aldosterone and Myocardial Pathology and much more **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 Application of epigenomics data to improve human and livestock health Xiao Wang, Ying Yu, Lingzhao Fang, 2023-07-21

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