

Gaetano Santulli *Editor*

microRNA: Medical Evidence

From Molecular Biology
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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.

microRNA: Cancer Gaetano Santulli, 2015-12-11 This volume thoroughly explores the functional role of microRNAs in cancer. It not only expertly describes the molecular mechanisms underlying the malignant transformation process but also compiles cutting-edge research on microRNAs in several forms of cancer, including colorectal cancer, pancreatic cancer, leukemia, lymphoma, prostate cancer, lung cancer, ovarian cancer, and bone cancer. Distinguished experts currently working in prestigious institutions elegantly discuss these fundamental themes. The text, which opens with a foreword by the renowned Dr. Carlo M. Croce, is enhanced by abundant color photographs, schemes, diagrams, and tables that fully support and complement the content. **microRNA: Cancer** is an ideal companion to both **microRNA: Basic Science** and **microRNA: Medical Evidence**. 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.

Liver Cancer - Multidisciplinary Approach Georgios Tsoulfas, 2024-09-11 Hepatocellular carcinoma (HCC) represents one of the most significant health issues globally, given its high prevalence and challenging nature of liver physiology and hepatic surgery. This means that the most appropriate management of HCC should include a multidisciplinary approach combining expertise from various specialties. This book showcases the steps involved in the development, diagnosis, staging, and management of HCC and provides us with the views and thoughts of true experts in the field. As such, it is a useful companion for any physician or surgeon, whether training or practicing, who is interested in caring for these patients.

Recent Advances in Noncoding RNAs Lütfi Tutar, 2022-11-02 The discovery of noncoding RNAs (ncRNAs) has changed our

understanding of genome transcriptome and interactions with proteome in a cell Since the discovery of the first microRNA miRNA called lin 4 on *Caenorhabditis elegans* in 1993 our understanding of gene expression has deepened Further miRNA discoveries have led to the investigation of new ncRNA families and their function biogenesis and interactions with other types of molecules Recent developments in bioinformatics public databases sequencing technologies and biochemical techniques have increased our understanding of the biogenesis function and interactions of ncRNAs This book provides an overview of current ncRNA research dealing with human diseases and cancer and plant miRNAs microRNA: Basic Science Gaetano Santulli, 2015-12-11 This volume explores microRNA pathophysiology focusing on basic concepts in molecular and cellular biology Chapters contributed by leading scientists examine recently discovered pathways in several processes including aging diabetes cardiovascular disease hematopoiesis and mitochondrial fitness The authors contextualize microRNAs within epigenetics and micropeptidomics angiogenesis and atherosclerosis endometrial pathophysiology and more Throughout numerous color photographs diagrams of molecular pathways and tables enhance the text microRNA Basic Science is an ideal companion to both microRNA Medical Evidence 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 Biotargets of Cancer in Current Clinical Practice Mauro Bologna, 2012-04-03 Biotargets of Cancer in Current Clinical Practice presents an updated and reasoned review of the current status of knowledge concerning the major cancer types with a special focus on the current biomarkers genes involved and the potential future targets of innovative therapies The volume includes for each major cancer type a comprehensive although concise discussion of epidemiology affirmed and innovative biomarkers for diagnosis and descriptions of the relevant genes for prognosis and individualized therapy through biotarget specific new molecular treatments with the latest information on the validation status of each novel biomarker Individual chapters are dedicated to the major cancer types plus a special chapter on metastasis The present debate on patentability of genetic information applied to diagnostics and therapeutics of cancer is also discussed **Medical Epigenetics**, 2021-08-27 Selected for Doody's Core Titles 2024 in Clinical Genetics Medical Epigenetics Second Edition provides a comprehensive analysis of epigenetics in health management across a broad spectrum of disease categories and specialties and with a focus on human systems epigenetic diseases that affect these systems and evolving modes of epigenetic based treatment Here more than 40 leading researchers examine how each human system is affected by epigenetic maladies offering an all in one resource on medical epigenetics not only for those directly involved with health care but investigators in life sciences biotech companies graduate students and others who are interested in applied aspects of epigenetics Incorporating both diagnostic and prognostic epigenetic approaches this volume also fully supports the application of epigenetics in precision medicine This second edition

of Medical Epigenetics a volume in the Translational Epigenetics series has been fully revised to address recent advances in disease epigenetics and role of epigenetics in precision medicine with all new chapters on skin cancer epigenetics network analysis in medical epigenetics machine learning in epigenetic diseases and clinical trials of epigenetics drugs Features chapters from leading researchers and clinicians dedicated to the burgeoning role of epigenetics in medical practice Covers emerging topics including twin epigenetics as well as epigenetics of gastrointestinal disease muscle disorders endocrine disorders ocular medicine pediatric diseases sports medicine noncoding RNA therapeutics pain management and regenerative medicine Organized from system disorders to multi system disorders that involve epigenetic aberrations Examines the role of epigenetics in precision medicine **MicroRNAs and cardiovascular disease** Tiago

Pereira-da-Silva,2022-10-27 According to the World Health Organization cardiovascular diseases are the leading cause of death globally taking an estimated 17.9 million lives each year most of which are attributable to atherosclerosis Notably the mechanisms that regulate atherosclerotic disease development and expression are not fully understood yet MicroRNAs are small non coding molecules of ribonucleic acid that regulate the gene expression at the post transcriptional level and play a key role in the pathophysiology of different cardiovascular diseases including atherosclerosis Moreover circulating microRNAs have been studied as biomarkers of different diseases and specific circulating microRNA profiles are associated with the presence of atherosclerosis of different arterial territories and multi territorial atherosclerosis These issues are discussed in the book including the core results of the translational research carried out by our group Knowledge of microRNA profiles in such context provided insights into the pathophysiology of atherosclerosis and supports the potential clinical value of microRNAs as noninvasive biomarkers *MicroRNA Targeted Cancer Therapy* Fazlul H. Sarkar,2014-04-22

Since the discovery of microRNAs miRNAs some twenty years ago by Victor Ambros David Baulcombe and Gary Ruvkun these three scientists worked to uncover the mystery of miRNA the small segments of nucleotides that silence genes While studying the development of the nematode worm Ambros and Ruvkun discovered miRNA in animals while Baulcombe discovered it in plants Since their discovery it took more than two decades to fully appreciate the value of miRNA in human health and diseases Emerging evidence suggests that the activation of oncogenes and or the inactivation of tumor suppressor genes contribute to the development and progression of tumors The regulation of genes is by far controlled by many transcription factors which are often deregulated during the development and progression of cancer In addition emerging evidence clearly suggests that the deregulation of miRNAs or small non coding RNAs could also regulate the expression of genes and likewise miRNA genes are also regulated by transcription factors The most attractive feature of miRNAs is that one miRNA can regulate many target genes mRNAs and thus miRNA targeted therapy is highly promising because multiple genes could be regulated by targeting a single miRNA which becomes very important for the killing of highly heterogeneous populations of cancer cells within a tumor mass Therefore miRNA targeted therapy is an attractive attribute of miRNA

research which is covered through eighteen chapters compiled in this book MicroRNA targeted Cancer therapy and it is hoped that the field of miRNA research will be appreciated through critical reading of these chapters on the cutting edge research on miRNAs

Recent Trends in Cancer Biology: Spotlight on Signaling Cascades and microRNAs Sundas Fayyaz, Ammad Ahmad Farooqi, 2018-03-07 Cancer is a multifaceted disease and overwhelmingly increasing experimental evidence has helped us to develop a deeper understanding of the role of signal transduction cascades in cancer development and progression Tissue microarrays and next generation sequencing technologies have assisted us to gather missing pieces of jigsaw puzzle and we now know that deregulation of spatio temporally controlled signaling cascades play fundamental role in metastasis and resistance against wide ranging therapeutics This book offers a balanced overview of the rapidly emerging cutting edge research in molecular oncology and good source of knowledge for established oncologists basic and medical students and pharmaceutical industry associated R D departments

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

Genetics and Molecular Mechanisms of Oral and Esophageal Squamous Cell Carcinoma Bin Qiao, Di Wu, Die Wang, 2022-03-04

Crosstalk between MicroRNA and Oxidative Stress in Physiology and Pathology Antonella Fioravanti, Francesco Dotta, Antonio Giordano, Luigi Pirtoli, 2020-06-18 MicroRNAs miRNAs are small noncoding RNAs that are 19-24 nucleotides in length following maturation Recent evidence has demonstrated their key role as post transcriptional regulators of gene expression through the binding of specific sequences within target messenger RNA mRNA miRNAs are involved in the synthesis of a very large number of proteins and it is speculated that they could regulate up to 30% of the human genome They control virtually every cellular process and are essential for animal development cell differentiation and homeostasis Altered miRNA expression has been linked to such pathological events as inflammatory degenerative or autoimmune processes and have been associated with several diseases including cancer cardiovascular diseases diabetes mellitus and rheumatic and neurological disorders Recently miRNAs have been found in many different biological fluids and this observation suggests the potential of miRNAs as new candidate biomarkers for diagnosis classification prognosis and responsiveness in the treatment of different pathological conditions Furthermore the

development of therapeutic strategies that involve either restoring or repressing miRNAs expression and activity has attracted much attention. Significant progress has been made in the systems for delivery of miRNAs even if substantial improvements in this area are still necessary. Although they have been extensively studied, a number of interesting questions regarding the physiological and pathological role of miRNAs have been postulated and their potential diagnostic and therapeutic role remain yet unanswered. Reactive oxygen species (ROS) are free radical containing oxygen molecules derived from cellular oxidative metabolism including enzyme activities and mitochondrial respiration and play a pivotal role in many cellular functions. Whereas ROS are essential for normal cellular processes, their aberrant production or failure of the capacity to scavenge excessive ROS induces an altered redox status with excessive synthesis of free radicals leading to an imbalance in the redox environment of the cell. The loss of normal ROS levels causes lipid, protein and DNA damage which contribute to the development of various pathologies including neurological disorders, rheumatic and cardiovascular diseases, diabetes and cancer. Increasing evidence highlights that there is crosstalk between miRNAs and components of redox signaling even if this complex and the characteristics of mutual interaction need to be amply elucidated. Hence, both miRNAs and oxidative stress are involved in the multifactorial development and progression of acute and chronic diseases by influencing numerous signaling and metabolic pathways.

The Special Issue entitled "Crosstalk between MicroRNA and Oxidative Stress in Physiology and Pathology" of the International Journal of Molecular Sciences includes original articles and reviews that provide new insights into the interaction between miRNAs and oxidative stress under normal and pathological conditions which can assist in the development of new therapeutic strategies. Finally, I would like to thank all the authors for their excellent contribution. I hope this Special Issue will provide readers with updated knowledge about the role of miRNAs and oxidative stress in physiology and pathology.

Integration of Omics Approaches and Systems Biology for Clinical Applications Antonia Vlahou, Fulvio Magni, Harald Mischak, Jerome Zoidakis, 2018-01-24. Introduces readers to the state of the art of omics platforms and all aspects of omics approaches for clinical applications. This book presents different high throughput omics platforms used to analyze tissue, plasma and urine. The reader is introduced to state of the art analytical approaches, sample preparation and instrumentation related to proteomics, peptidomics, transcriptomics and metabolomics. In addition, the book highlights innovative approaches using bioinformatics, urine miRNAs and MALDI tissue imaging in the context of clinical applications. Particular emphasis is put on integration of data generated from these different platforms in order to uncover the molecular landscape of diseases. The relevance of each approach to the clinical setting is explained and future applications for patient monitoring or treatment are discussed. Integration of omics Approaches and Systems Biology for Clinical Applications presents an overview of state of the art omics techniques. These methods are employed in order to obtain the comprehensive molecular profile of biological specimens. In addition, computational tools are used for organizing and integrating these multi source data towards developing molecular models that reflect the pathophysiology of diseases.

Investigation of chronic kidney disease CKD and bladder cancer are used as test cases These represent multi factorial highly heterogeneous diseases and are among the most significant health issues in developed countries with a rapidly aging population The book presents novel insights on CKD and bladder cancer obtained by omics data integration as an example of the application of systems biology in the clinical setting Describes a range of state of the art omics analytical platforms Covers all aspects of the systems biology approach from sample preparation to data integration and bioinformatics analysis Contains specific examples of omics methods applied in the investigation of human diseases Chronic Kidney Disease Bladder Cancer Integration of omics Approaches and Systems Biology for Clinical Applications will appeal to a wide spectrum of scientists including biologists biotechnologists biochemists biophysicists and bioinformaticians working on the different molecular platforms It is also an excellent text for students interested in these fields

Genomic Applications in Pathology George Jabboire Netto, Karen L. Kaul, 2018-12-10 The recent advances in genomics are continuing to reshape our approach to diagnostics prognostics and therapeutics in oncologic and other disorders A paradigm shift in pharmacogenomics and in the diagnosis of genetic inherited diseases and infectious diseases is unfolding as the result of implementation of next generation genomic technologies With rapidly growing knowledge and applications driving this revolution along with significant technologic and cost changes genomic approaches are becoming the primary methods in many laboratories and for many diseases As a result a plethora of clinical genomic applications have been implemented in diagnostic pathology laboratories and the applications and demands continue to evolve rapidly This has created a tremendous need for a comprehensive resource on genomic applications in clinical and anatomic pathology We believe that our current textbook provides such a resource to practicing molecular pathologists hematopathologists and other subspecialized pathologists general pathologists pathology and other trainees oncologists geneticists and a growing spectrum of other clinicians With periodic updates and a sufficiently rapid time from submission to publication this textbook will be the resource of choice for many professionals and teaching programs Its focus on genomics parallels the evolution of these technologies as primary methods in the clinical lab The rapid evolution of genomics and its applications in medicine necessitates the frequent updating of this publication This text will provide a state of the art review of the scientific principles underlying next generation genomic technologies and the required bioinformatics approaches to analyses of the daunting amount of data generated by current and emerging genomic technologies Implementation roadmaps for various clinical assays such as single gene gene panels whole exome and whole genome assays will be discussed together with issues related to reporting and the pathologist s role in interpretation and clinical integration of genomic tests results Genomic applications for site specific solid tumors and hematologic neoplasms will be detailed Genomic applications in pharmacogenomics inherited genetic diseases and infectious diseases will also be discussed The latest iteration of practice recommendations or guidelines in genomic testing put forth by stakeholder professional organizations such as the College of

American Pathology and the Association for Molecular Pathology will be discussed as well as regulatory issues and laboratory accreditation related to genomic testing All chapters will be written by experts in their fields and will include the most up to date scientific and clinical information

microRNA: Cancer Gaetano Santulli, 2015-12-18 This volume thoroughly explores of the functional role of microRNAs in cancer It not only expertly describes the molecular mechanisms underlying the malignant transformation process but also compiles cutting edge research on microRNAs in several forms of cancer including colorectal cancer pancreatic cancer leukemia lymphoma prostate cancer lung cancer ovarian cancer and bone cancer Distinguished experts currently working in prestigious institutions elegantly discuss these fundamental themes The text which opens with a foreword by the renowned Dr Carlo M Croce is enhanced by abundant color photographs schemes diagrams and tables that fully support and complement the content microRNA Cancer is an ideal companion to both microRNA Basic Science and microRNA Medical Evidence 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

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

Encyclopedia of Biomedical Gerontology, 2019-11-20 Encyclopedia of Biomedical Gerontology Three Volume Set presents a wide range of topics ranging from what happens in the body during aging the reasons and mechanisms relating to those age related

changes and their clinical psychological and social modulators and determinants The book covers the biological and medical aspects of gerontology within the general framework of the biological basis of assessing age biological mechanisms of aging age related changes in biological systems human age related diseases the biomedical practicality and impracticality of interventions and finally the ethics of intervention Provides a one stop resource to information written by world leading scholars in the field of biomedical gerontology Fills a critical gap of information in a field that has seen significant progress in the last 10 years

Degenerative Cervical Myelopathy Michael G. Fehlings, 2023-11-24 Degenerative Cervical Myelopathy From Basic Science to Clinical Practice lays the foundation for understanding DCM manifestation pathophysiology diagnosis and treatment strategies The book covers the latest basic and clinical research updates on patient management strategies and discusses promising neuroprotective therapies for the future of DCM care Written by international experts across a range of topics related to degenerative cervical myelopathy the book helps readers understand the challenges and future directions of patient management As degenerative cervical myelopathy DCM is the leading cause of spinal cord dysfunction and one of the most common indications for spinal surgery worldwide the term DCM encompasses a group of chronic non traumatic spinal cord injuries that occur due to degenerative changes in the cervical spine e g disc spondylosis or repetitive dynamic injury from hyper mobility Covers recent clinical trial advancements and the impact of trial findings Presents recent clinical guidelines for the management of degenerative cervical myelopathy providing readers with insights regarding the translation of research from bench to bedside Provides readers with the skills needed to understand the translational pathway using real life examples

Genetic and epigenetic aspects of non-coding RNAs in physiology and disease Amanda Salviano-Silva, Ticiana D. J. Farias, Angelica Beate Winter Boldt, Gabriel Adelman Cipolla, 2023-01-11

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