

Gaetano Santulli *Editor*

microRNA: Medical Evidence

From Molecular Biology
to Clinical Practice

Microrna Molecular Clinical Practice Experimental

R Sanford



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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.

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.

The crosstalk between emerging cell death and immune microenvironment remodeling in cancer progression and treatment Bufu Tang, Xuanzhang Huang, Weiliang Hou, Ling Wang, Jifeng Wang, 2025-11-13 The field of cancer research has increasingly focused on the intricate interplay between regulated cell death (RCD) pathways and the immune microenvironment in tumor progression and treatment. Regulated cell death encompassing processes such as ferroptosis, cuproptosis, and pan apoptosis plays a pivotal role in organismal development and disease pathogenesis. Recent studies have highlighted the significance of these cell death mechanisms in tumorigenesis, suggesting their potential as therapeutic targets. Ferroptosis, characterized by iron-dependent phospholipid peroxidation, is particularly relevant in treatment-resistant cancer cells which are often in a stromal state and prone to metastasis. Cuproptosis, a copper and mitochondria-dependent cell death mechanism, and pan apoptosis mediated by the PANoptosome complex further expand the landscape of RCD. Despite these advances, the precise mechanisms by which these pathways influence the tumor immune microenvironment remain inadequately understood, necessitating further investigation to harness their therapeutic potential.

This research topic aims to explore the effects of emerging regulatory cell death modes on tumor disease development and progression with a focus on remodeling the tumor immune microenvironment. By examining the crosstalk between tumor progression and treatment through the lens of ferroptosis, cuproptosis and pan apoptosis, the research seeks to uncover novel therapeutic strategies that can beneficially impact neoplastic diseases. Key objectives include identifying biomarkers and mechanisms of these RCD pathways, understanding their complex effects on the immune microenvironment and evaluating potential novel drugs and nanoparticles that modulate these processes. To gather further insights into the crosstalk between emerging cell death pathways and immune microenvironment remodeling in cancer, we welcome articles addressing but not limited to the following themes: Biomarkers and mechanisms of cuproptosis, ferroptosis or pan apoptosis in inflammatory diseases; Complex effects of emerging forms of tumor cell death on the immune microenvironment as well as the regulated death of other cells in the immune microenvironment that affect tumor biology; Combination study of the crosstalk effects of cuproptosis, ferroptosis and pan apoptosis in tumor progression and treatment; The potential novel drugs and nanoparticles to induce or inhibit new RCD pathways and their therapeutic effects on cancer; Effects of modulating RCD processes on cancer drug resistance. Please note manuscripts consisting solely of bioinformatics or computational analysis of public genomic or transcriptomic databases which are not accompanied by validation independent cohort or biological validation in vitro or in vivo are out of scope for this section and will not be accepted as part of this Research Topic.

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.

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.

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.

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 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.

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.

Molecular Oncology of Breast Cancer Jeffrey Stuart Ross, Gabriel N. Hortobagyi, 2005. The first comprehensive reference to focus on the molecular development and treatment of the disease. *Molecular Oncology of Breast Cancer* provides authoritative information across the spectrum of modern breast cancer research and clinical care. Edited by two world class experts in cancer pathology, drug development and patient management with contributions from over 50 experts, this ground breaking text describes the genes, proteins and biologic pathways that are being evaluated today and will be tested in the

future to derive the molecular signature of each newly diagnosed breast cancer For the first time readers can now obtain in a single volume up to date information on how molecular based tests are being used to identify predisposition provide earliest detection decide classification based on genetic fingerprint and predict therapy specific outcomes MOBC includes unique chapters on functional imaging and the impact of targeted therapies on the FDA approval process This book gives readers vital up to date information on important molecular discoveries that affect the everyday management of the breast cancer patient

Genomic Applications in Pathology George Jabboure 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

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 Computational Epigenetics in Human Diseases, Cell Differentiation, and Cell Reprogramming, Volume I Jianzhong Su,Meng Zhou,Yongchun Zuo,Xiaotian Zhang,2021-02-24 **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 *Decoding Non-Coding RNA Implicated in Cancer Cell Survival & Growth Modulation* Ramkrishna Mitra,Wei Jiang,2022-06-03

Advancing Science and Innovation in Healthcare Research Debasmita Bhattacharya,Prabir Kumar Das,Samapika Das Biswas,2025-08-13 While basic science research explores into unraveling biological processes pathways and mechanisms to identify targets and understand disease progression engineering focuses on developing techniques equipment and procedures to improve patient outcomes Advancing Science and Innovation in Healthcare Research Health Horizons not only contributes to the comprehension of human health and disease attenuation but also sheds light on mechanisms and introduces new techniques to combine these two areas and bridge knowledge gaps Comprising 29 chapters this book introduces readers to the application of modern technologies such as bioinformatics bioengineering and artificial intelligence for advancing human health It explores the systems biology approach utilizing multi omics techniques and metagenomic profiling Researchers in systems biology bioinformatics and biomedical applications will find this an essential reference Deciphers the importance of ground breaking basic science research and innovative techniques used to ameliorate diseases and improve health Enhances understanding of human health and reduces the impact of diseases by revealing the underlying mechanisms and introducing innovative techniques addressing knowledge gaps Deals with modern technologies that can be applied for diagnosis and therapeutics of different diseases of different diseases **Chronic Myeloid Leukemia: New Insights for the Healthcare Professional: 2011 Edition** ,2012-01-09 Chronic Myeloid Leukemia New Insights for the Healthcare Professional 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive

information about Chronic Myeloid Leukemia The editors have built Chronic Myeloid Leukemia New Insights for the Healthcare Professional 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Chronic Myeloid Leukemia in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Chronic Myeloid Leukemia New Insights for the Healthcare Professional 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Principles & Practice of Neuro-Oncology

,2010-10-21 Neuro oncologic brain and spine cancers account for 19 000 new cases and 13 000 deaths per year The early and proper diagnosis of these virulent cancers is critical to patient outcomes and diagnosis and treatment strategies are continually evolving The multidisciplinary team that manages these patients involves medical and radiation oncology neurosurgery neuroimaging nurses and therapists Principles and Practices of Neuro Oncology establishes a new gold standard in care through a comprehensive multidisciplinary text covering all aspects of neuro oncology Six major sections cover all topics related to epidemiology and etiology molecular biology clinical features and supportive care imaging neuroanatomy and neurosurgery medical oncology and targeted therapies and radiation oncology for adult and pediatric cancers Expert contributors from multiple disciplines provide detailed and in depth discussions of the entire field of neuro oncology including histopathologic harmonization neurosurgical techniques quality of life and cognitive functions and therapeutic changes in terms of combined modality treatments advanced radiation techniques the advent of new drugs especially targeted agents and the tantalizing early promise of personalized therapeutic approaches With contributions from over 180 authors numerous diagrams illustrations and tables and a 48 page color section Principles and Practice of Neuro Oncology reflects the breadth and depth of this multi faceted specialty

[Biomarkers in Environmental and Human Health Biomonitoring](#) Ritu Mishra,Sughosh Madhav,Rahul Kumar Dhaka,Parveen Garg,2024-05-29 Biomarkers in Environmental and Human Health Biomonitoring An Integrated Perspective provides a holistic view of the biomonitoring of environmental degradation accumulated toxicity and associated human health concerns The book incorporates theoretical and practical aspects of the biomonitoring of environmental pollution and the health surveillance of ecological communities using samples from living organisms which are analyzed for contaminants and toxin levels In the first half the book provides a general overview if the different types of biomarkers their significance as bioindicators for contaminants and detection of toxicity as well as how they can be utilized in the restoration of degraded ecosystems The second half of the book discusses molecular biomarkers and how they are used as diagnostic and prognostic tools for pollution monitoring It also reviews analytical tools used to validate the biomarkers in the detection and monitoring of pollution and disease Finally the book delves into how

novel approaches like genetic ecotoxicology Big Data and artificial intelligence calculates the potential consequences of environmental pollution on the ecosystems and on human health Covers the fundamentals types significance and limitations of biomarkers Examines various types of plants animals and secondary metabolites in identifying and monitoring toxicity in different ecosystems and potential impacts on health Reviews biomarker based and bioinformatic tools in the detection and monitoring of environmental pollution and associated human health **Alternative pre-mRNA Splicing** Stefan

Stamm,Chris Smith,Reinhard Lührmann,2012-08-01 This book was written for graduate and medical students as well as clinicians and postdoctoral researchers It describes the theory of alternative pre mRNA splicing in twelve introductory chapters and then introduces protocols and their theoretical background relevant for experimental research These 43 practical chapters cover Basic methods Detection of splicing events Analysis of alternative pre mRNA splicing in vitro and in vivo Manipulation of splicing events and Bioinformatic analysis of alternative splicing A theoretical introduction and practical guide for molecular biologists geneticists clinicians and every researcher interested in alternative splicing Website www.wiley-vch.de/home/splicing

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