

Gaetano Santulli *Editor*

# microRNA: Medical Evidence

From Molecular Biology  
to Clinical Practice

# Microrna Evidence Molecular Clinical Experimental

**Antonia R. Sepulveda, John P. Lynch**



## **Microrna Evidence Molecular Clinical Experimental:**

**microRNA: Cancer** Gaetano Santulli, 2015-12-11 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 *MicroRNAs in Cancer* Cesar Lopez-Camarillo, Laurence A. Marchat, 2013-02-22 MicroRNA miRNA biology is a cutting edge topic in basic as well as biomedical research This is a specialized book focusing on the current understanding of the role of miRNAs in the development progression invasion and metastasis of diverse types of cancer It also reviews their potential for applications in cancer diagnosis prognosis and th

## **Molecular Genetics and Emerging Therapies for Epithelial Ovarian Cancer:**

**Basic Research and Clinical Perspectives** Stergios Boussios, Eleftherios Pierre Samartzis, Nicholas Pavlidis, J. Alejandro Perez-Fidalgo, 2023-11-06 Epithelial ovarian cancer EOC is the most lethal gynecological disorder due to a lack of effective early detection strategies Worldwide approximately 230 000 women are diagnosed annually whereas 150 000 die It represents the seventh most commonly diagnosed cancer among women in the world with 5 year survival rate of 46% More than one fifth of EOC have been related to hereditary conditions Considerable efforts have been made to implement screening of the general population to diagnose EOC early nevertheless this has been ineffective and there is no approved strategy Nowadays new approaches for early diagnosis and prevention based on molecular genomics are in development Whole genome sequencing has established the potency of the somatic genome characterised with diverse DNA repair deficiencies that can be used to stratify EOCs into distinct biological groups with predictive signatures of resistance or relapse The incorporation of next generation sequencing NGS into clinical practice remains challenging for two reasons Firstly the EOC risk is not clear for some of the included genes and secondly the variant of uncertain significance rates increase as more genes are analyzed Finally beyond germline pathogenic variants somatic mutations may also affect therapeutic choices and as such upfront tumor sequencing may be equally important to NGS particularly as we continue to challenge treatment paradigms in the first line management of EOC

**Current Cancer Treatment** Mirjana Rajer, Eva Segelov, 2020-06-24 This book is a collection of in depth chapters on many aspects of contemporary cancer treatment Written

by experts worldwide each chapter provides a detailed summary of the state of the art knowledge in the area with extensive references and clear and informative diagrams The volume is divided into two sections Basic Science and Clinical Challenges The five chapters in the first section cover MicroRNA the role of angiogenesis in the tumor microenvironment microbial metabolites in the gastrointestinal microenvironment the role of dendritic cells in anti tumor immunity and challenges of current cancer biomarkers The two chapters in the second section cover pediatric CNS tumors and the role of sentinel node biopsy in endometrial cancer The information in this book is designed for cancer clinicians and interested readers to whom this knowledge is important for focusing research and improving patient outcomes

**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

*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

*Cardiovascular Genetics and Genomics in Clinical Practice* Sanjiv J. Shah, MD, Donna K. Arnett, PhD, 2014-11-10 This is the only book that presents clinical cases to illuminate basic concepts of cardiovascular genetics and genomics as practitioners encounter them in day to day practice The unique use of real world case discussions facilitates the memorization and understanding of basic principles which can be more readily applied to actual cases

MicroRNAs: Key Regulators of Oncogenesis Sadegh Babashah, 2014-07-08 Aberrant expression and function of microRNAs miRNAs in cancer have added a new layer of complexity to the understanding of development and progression of the disease state It has been demonstrated that miRNAs have a crucial function in oncogenesis by regulating cell proliferation and apoptosis as oncogenes or tumor suppressors The expression signatures of miRNAs provide exciting opportunities in the diagnosis prognosis and therapy of cancer Since miRNAs can function as either oncogenes or tumor suppressor genes in oncogenesis the potential of using these small RNAs as therapeutic targets opens up new opportunities for cancer therapy by either inhibiting or augmenting their activity

**Cardiovascular and Metabolic Disease** Philip Peplow, James Adams, Tim Young, 2015-05-18 Cardiovascular and metabolic diseases remain the number one cause of death in developed countries and their prevalence is increasing rapidly in developing nations This book brings together the recent information on these disorders and the links that exist between them in order to provide a complete picture of drug discovery for these conditions The main three sections comprehensively discuss obesity hypertension and cardiovascular disease and diabetes in turn following an introduction to the molecular links between them The final chapter provides perspectives on future directions of the field Chapters are contributed by leaders in the field from academia and industry and cover biomarkers risk factors gene environment interactions therapies and the various types of animal models that have been used to study each disease Case studies describing the implementation of animal models in drug development further enhance the book s usefulness as a comprehensive guide to this important therapeutic area Providing a full picture of the various types of animal models that have been used to study obesity hypertension and insulin resistance with recent case studies this book provides a valuable resource for medicinal chemists

and clinicians working in these disease areas      **MicroRNAs in Medicine** Charles H. Lawrie, 2013-10-30 MicroRNAs in Medicine provides an access point into the current literature on microRNA for both scientists and clinicians with an up to date look at what is happening in the emerging field of microRNAs and their relevance to medicine Each chapter is a comprehensive review with descriptions of the latest microRNA research written by international leaders in their field Opening with an introduction to what microRNAs are and how they function the book goes on to explore the role of microRNAs in normal physiological functions infectious diseases non infectious diseases cancer circulating microRNAs as non invasive biomarkers and finally their potential as novel therapeutics Including background information on the field as well as reviews of the latest research breakthroughs MicroRNAs in Medicine is a one stop source of information to satisfy the specialists and non specialists alike appealing to students researchers and clinicians interested in understanding the potential of microRNAs in medicine and research      *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      *Frontiers in Clinical Drug Research - Anti-Cancer Agents: Volume 8* Atta-ur-Rahman, 2021-12-03 Frontiers in Clinical Drug Research Anti Cancer Agents is a book series intended for pharmaceutical scientists postgraduate students and researchers seeking updated and critical information for developing clinical trials and devising research plans in anti cancer research Reviews in each volume are written by experts in medical oncology and clinical trials research and compile the latest information available on special topics of interest to oncology and pharmaceutical chemistry researchers The eighth volume of the book features reviews on these topics Key data management elements in clinical trials for oncological therapeutics Prospects for therapeutic targeting of microRNAs in brain tumors Breast cancer vaccines current status and future approach Desmocollin 3 and cancer MDM2 p53 antagonists under clinical evaluation a promising cancer targeted therapy for cancer patients harbouring wild type tp53 Towards targeted therapy anticancer agents targeting cell organelle mitochondria Anticancer therapeutic strategies in gliomas chemotherapy immunotherapy and molecularly targeted therapy in adults      **MicroRNAs & Cardiovascular Disease** Zhiguo Wang, 2010 Annotation Micro RNAs miRNAs are known to play an important role in gene expression regulation Owing to their ever increasing implications in the control of various biological and pathological processes miRNAs have now been considered novel biomarkers of various human diseases including cancer viral disease cardiovascular disorders metabolic disturbances etc Unique expression profiles have been associated with specific pathological states Cardiovascular disease is

among the main causes of mortality in developed countries The pathological process of the heart is associated with altered expression profile of genes that are important for cardiac function The implications of miRNAs in the pathological process of the cardiovascular system have recently been recognized and the research on miRNAs in relation to cardiovascular disease is now in rapid progress The aim of this ebook is to present updated research on the subject with analyses from published reports Micro RNAs and Cardiovascular Disease caters to the growing interest and information needs of cardiac clinicians and gene expression researchers

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

**Novel Therapeutic Advances in Glioblastoma** ,2020-05-22 Novel Therapeutic Advances in Glioblastoma Volume 151 in the International Review of Neurobiology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including Blood brain barrier and pathophysiology of brain tumors Promising strategies of glioblastoma treatment personalized genotoxic therapy and stem cell transplantation Extracellular matrix and biocompatible materials in glioblastoma treatment Expression of Twist associated to microcirculation patterns of human glioma correlated with progression and survival of the patient Advanced Multimodal Imaging in Differentiating Glioma Recurrence from Post radiotherapy Changes Advanced Multimodal Imaging in Differentiating Glioma Recurrence from Post radiotherapy Changes and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the International Review of Neurobiology series Updated release includes the latest information on glioblastomas

**Molecular Pathology of Neoplastic Gastrointestinal Diseases** Antonia R. Sepulveda,John P. Lynch,2013-01-28 Molecular Pathology of Neoplastic Gastrointestinal Diseases reviews the molecular aspects that characterize the spectrum of neoplastic conditions that affect the gastrointestinal tract providing the reader with current up to date knowledge For each disease entity chapters provide reviews on the molecular basis of the individual disease molecular testing approaches currently available or in development for diagnosis or for gene target characterization for selective targeted therapies recommended guidelines for clinical application of molecular tests are included whenever available molecular testing for hereditary predisposition or disease risk animal models and cell culture models of disease

**Alcohol Research** ,2013 Neurobiology of Alcohol Dependence Antonio Noronha,Changhai Cui,Robert Adron Harris,John C. Crabbe,2014-05-02 Recent scientific advances have provided substantial information on the brain circuits and pathways relevant to various aspects of dependence Neurobiology of Alcohol Dependence highlights the most recent data at the molecular cellular neurocircuitry and behavioral levels fostering an understanding how neuroplasticity and neuroadaptation occur and how different neural pathways and neurocircuits contribute to dependence Highlights recent advances in understanding alcohol addiction from molecular cellular neurocircuitry and behavioral levels Integrates several emerging areas of research and discusses the application of novel research techniques to the understanding of alcohol dependence Chapters authored by leaders in the field around the globe the broadest most expert coverage available

**Animal Models for Medications Screening to Treat Addiction** Richard L Bell,Shafiqur Rahman,2016-04-04 Animal Models for Medications Screening to Treat Addiction the latest volume in the



International Review of Neurobiology series provides a comprehensive overview of the state of the art research on the topic. It reviews the current knowledge and understanding in the field, presenting a starting point for researchers and practitioners entering the field. Brings together information on the current state of medication development for drug addiction using animal models. Contains comprehensive descriptions of various models associated with many forms of drug addiction. Adds new information for translational research in the field of drug addiction.

## **Microrna Evidence Molecular Clinical Experimental** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Microrna Evidence Molecular Clinical Experimental**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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