

Sadegh Babashah *Editor*

# MicroRNAs: Key Regulators of Oncogenesis

# Micrornas Key Regulators Of Oncogenesis

**Curtis D. Klaassen**

## **Micrornas Key Regulators Of Oncogenesis:**

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 **RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells** Baohong Zhang,Edmund J. Stellwag,2010-08-16 This cutting edge text will be a valuable resource for scientists and aspiring graduate students interested in the intersection of RNAi miRNA and stem cell molecular biology and exciting areas of research such as regenerative medicine and cancer **Transactions** Biochemical Society (Great Britain),2009

**Science** John Michels (Journalist),2008 A weekly record of scientific progress **Mini Reviews in Medicinal Chemistry**,2009 **Cancer Research**,2009-10 **MicroRNAs in Development and Cancer** Frank J. Slack,2011 MicroRNAs have recently emerged as key regulators of gene expression during development and are frequently misexpressed in human disease states in particular cancer These 22 nucleotide long transcripts act to promote or repress cell proliferation migration and apoptosis during development all of which are processes that go awry in cancer Thus microRNAs have the ability to behave like oncogenes or tumor suppressors In addition their small size and molecular properties make them amenable as targets and therapeutics in cancer treatment This book goes into detail on how microRNAs represent a paradigm shift in thinking about gene regulation during development and disease and provide the oncologist with a potentially powerful new battery of agents to diagnose and treat cancer **Biology Annual Report**,2007 **MicroRNAs and Oxidative Stress** Luciana Batista,2013

**The Basic Science of Oncology, Sixth Edition** Lea Harrington,Robert E. Bristow,Ian F. Tannock,Richard Hill,2021-01-08 Complete coverage of the basis of cancer and molecular biology from globally recognized experts The Basic Science of Oncology is an accessible and thorough introduction to cancer causation cancer biology and the biology underlying cancer treatment You ll find everything you need to know about the latest critical thinking in oncology as well ready to apply information about state of the art science and therapeutic applications Written by leading oncology researchers and clinicians this is an essential resource for health professionals students advanced undergraduates and graduates in biological sciences and clinicians needing an understanding of cancer cells Presented in full color The Basic Science of Oncology reflects the latest research and developments in the field Features NEW chapters Epigenetics and Principles of Genome Regulation and Targeted Cancer Diagnosis and Treatment Thoroughly revised content with expanded coverage of key topics such as immune system and immunotherapy tumor growth and metabolism vaccine development

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**Basic Science of Oncology, Fifth Edition** Ian F. Tannock, Richard P. Hill, Robert G. Bristow, Lea Harrington, 2013-07-31  
Basic Science of Oncology 5e is an engaging state of art review of cancer causation cancer biology and the biology underlying cancer treatment The fifth edition features critical updates in all areas of the fast moving field of cancer care

Control and Regulation of Transport Phenomena in the Cardiac System, Volume 1123 Samuel Sideman, Rafael Beyar, Amir Landesberg, 2008-04-14 Leading researchers in the life sciences and engineers involved in research of transport phenomena in biological systems have contributed chapters that identify analyze and modify the control and regulation mechanisms of transport phenomena in biological systems with particular emphasis on the cardiac system Included in the contributions to this volume are the following topics signaling mechanisms and transport phenomena blood tissue exchange and inter tissue transport cellular membrane transport and endocytosis of ions and metabolites intracellular transport energetics and molecular motors system biology uni and multi scale transport models and hierarchical analysis and clinical considerations cardiac protection metabolic and pharmaceutical augmentation and interferences NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit [www.blackwellpublishing.com/nyas](http://www.blackwellpublishing.com/nyas) ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order [www.nyas.org](http://www.nyas.org) Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit [www.nyas.org/membership/main.asp](http://www.nyas.org/membership/main.asp) for more information about becoming a member

**American Journal of Respiratory and Critical Care Medicine** ,2009 Circulation ,2007 The Involvement of MicroRNAs in Autocrine HGH-mediated Oncogenesis Mikhail Pertziger, 2014 MicroRNAs miRNAs are short 17-25 nucleotide RNAs which are ubiquitous regulators of gene expression Regulation of miRNA expression has recently been highlighted as a key aspect affecting the pathogenesis of many types of malignancies including breast and colon cancer Furthermore regulation of the enzymes involved in miRNA processing has also been implicated in the development and progression of several cancers including breast cancer The human growth hormone hGH insulin like growth factor 1 IGF 1 axis has emerged as an important mediator of tumour development Tumoral hGH expression positively correlates with lymph node metastasis tumour stage HER 2 status and poor outcome in breast cancer patients Recent reports suggest that the hGH IGF 1 axis may influence the expression of miRNAs and this study investigates whether miRNA expression and the expression of key proteins involved in miRNA processing are affected by autocrine hGH in breast and colon cancer cells The study also assessed the

functional implications of autocrine hGH expression in colon carcinoma cells Our initial findings demonstrate that forced expression of hGH in colon carcinoma cells increases total cell number by increasing cell proliferation and survival and stimulates anchorage independent cell growth and motility Conversely functional inhibition of endogenously expressed hGH decreases total cell number due to reduced proliferation and survival and inhibits anchorage independent cell growth and motility Autocrine hGH modulates miRNA expression profiles in both breast and colon cancer cells increasing expression of several oncogenic miRNAs and reducing expression of tumour suppressive miRNAs One consequence of such deregulation is increased Nuclear Factor KappaB NFkB activity in hGH expressing breast cancer cells Furthermore autocrine hGH decreases the expression of components of the miRNA biogenesis pathway Drosha and Dicer and modulates the expression of Ago1 and Ago2 in mammary carcinoma cells Our findings demonstrate that autocrine hGH enhances the oncogenicity of colon carcinoma cells In addition autocrine hGH regulates the expression of a subset of miRNAs in breast and colon carcinoma cells and regulates the expression of key proteins involved in miRNA processing in breast cancer cells Thus deregulation of miRNA physiology may be one mechanism whereby autocrine hGH contributes to tumour progression

**World Cancer Report 2008** International Agency for Research on Cancer,2008-12-31 The World Cancer Report 2008 provides a comprehensive overview of cancer for all those working in the field of health care and research and the general reader as well It presents information on cancer patterns diagnosis causes and prevention concisely clearly outlining the growing public health crisis Simultaneously there is a clear message of hope although cancer is a great and growing devastating disease it is largely preventable *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.),2007

**Casarett & Doull's Toxicology: The Basic Science of Poisons, 9th Edition** Curtis D. Klaassen,2018-11-23 Toxicology s gold standard text completely updated to reflect the latest breakthroughs and discoveries A Doody s Core Title for 2024 2021 Casarett Doull s Toxicology The Basic Science of Poisons Ninth Edition equips you with an unsurpassed understanding of modern toxicology including the key principles concepts mechanisms chemical specific toxicity and modes of thought that are the foundation of the discipline This trusted classic not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Casarett Doull s Toxicology The Basic Science of Poisons Ninth Edition is logically divided into seven sections General Principles of Toxicology Disposition of Toxicants Non Organ Directed Toxicity Target Organ Toxicity Toxic Agents Environmental Toxicology Applications of Toxicology Many new contributors capture the progress made in toxicology over the past few years This edition is markedly updated from the previous edition with more than one third of the chapters authored by scientists who have not made previous contributions to the book Sharing their expertise they deliver dynamic new coverage of the importance of apoptosis autophagy cytokines growth factors oncogenes cell cycling receptors gene regulation protective mechanisms repair mechanisms transcription

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