

Jose Russo · Irma H. Russo

# Role of the Transcriptome in Breast Cancer Prevention

# Role Of The Transcriptome In Breast Cancer Prevention

**Michael D. Waters, Claude L. Hughes**



## **Role Of The Transcriptome In Breast Cancer Prevention:**

**Role of the Transcriptome in Breast Cancer Prevention** Jose Russo, Irma H. Russo, 2012-11-07 This book will provide the latest advances in molecular and cellular biology for establishing the foundation of a complete understanding of the mechanisms of breast differentiation leading to cancer prevention The authors are based on the epidemiological evidence indicating that early first full term pregnancy is a protective factor in human against breast cancer and they have used this paradigm and developed experimental systems in both in vivo and in vitro that have demonstrated mechanistically how the differentiation at the organ and cellular level takes place This knowledge has provided the blueprint for developing better understanding of the basis of cancer prevention The transcriptoma analysis of the breast of pre and post menopausal women has established a genomic signature imprinted in the breast that differs according to the reproductive history of the woman showing that early first full term pregnancy reprogram the organ This reprogramming takes place at the chromatin level by changing the transcriptional process The modification of the transcriptional control is due to the expression of non coding RNA sequences and posttranscriptional control driven by the spliceosome The plasticity of the genome of the human breast make possible this reprogramming that is not only induced by the physiological process of pregnancy but by the use of hormones that mimic pregnancy without pregnancy The author have established the basis of clinical trials for prevention and the discovery that short 15aa peptides of the chorionic gonadotropin hormone can be used in human breast cancer prevention based on preclinical and clinical data

**The Future of Prevention and Treatment of Breast Cancer** Jose Russo, 2021-07-26 The objective of this book is to provide a critical analysis of the present prevention strategies for breast cancer emphasizing the cost benefits and quality of life of the patient Rooted in the present knowledge of breast cancer biology and prevention and treatment options the book will describe the future tools that could be available to oncologists and how these new approaches may change the landscape of recurrence and survival of the disease Special emphasis will be given to the prevention strategies counterposing the present limitations and conflicting prevention guidelines for both hereditary and preventive non hereditary breast cancer and propose how the implementation of new strategies based on the present knowledge could save millions of lives and be more cost efficient The book will present a critical status of the treatment and prevention of breast cancer and detail how a quantum leap could be achieved in the field by applying present basic research knowledge to clinical application

**Memoirs Of A Cancer Researcher** Jose Russo, 2019-03-20 This narrative of a cancer researcher spans a period in which biomedicine research has been so revolutionary The educational background and socioeconomic circumstances of the author make the story unique shedding light on many important intellectual achievements The author also provides an insightful view on how decisions at the upper echelon of scientific institutions affect cancer researchers The vivid account of scientific discovery and intellectual evolution provides a fine example for the next generation of cancer researchers

**The Role of Steroid Hormones and Growth Factors in**

**Cancer** Marzia Di Donato,Paul J. Higgins,Isabel R. Schlaepfer,Gustavo Cernera,2022-08-25 **Cancer Epidemiology and Prevention** Michael Thun,Martha S. Linet,James R. Cerhan,Christopher A. Haiman,David Schottenfeld,2017-11-07 BThe definitive reference for budding and experienced cancer epidemiologists alike American Journal of Epidemiology Practitioners in epidemiology and oncology will find immense value in this JAMA Now revised for the first time in more than a decade this fourth edition of CANCER EPIDEMIOLOGY AND PREVENTION provides a comprehensive summary of the global patterns of cancer incidence and mortality current understanding of the major causal determinants and a rationale for preventive interventions Special attention is paid to molecular epidemiologic approaches that address the wider role of genetic predisposition and gene environment interactions in cancer etiology and pathogenesis For both seasoned professionals and newer generations of students and researchers this fourth edition of CANCER EPIDEMIOLOGY AND PREVENTION remains the authoritative reference textbook in the field a work of distinction that every lab library student professional or researcher should have close at hand *Role of Sex Steroids and Their Receptors in Cancers* Pia Giovannelli,Pandurangan Ramaraj,Cecilia Williams,2022-11-22 *Decoding the Epigenetic Landscape: Elucidating Cancer Pathology and Identifying Novel Therapeutic Targets* Han Yao,Dawei Chen,Yichao Hou,2025-10-13 Epigenetic modifications encompass a range of mechanisms that alter gene expression without changing the DNA sequence itself These include DNA methylation histone modification variations in DNA replication timing nucleosome positioning and changes in heterochromatin states Such epigenetic alterations are known to interact with cellular metabolism influencing the expression of metabolic genes This interaction can lead to metabolic reprogramming and alterations in cellular redox states The reprogramming of metabolism further influences the activity of enzymes that generate transcription factors which in turn can induce further epigenetic changes and affect the expression of specific genes Given this intricate interplay epigenetics profoundly impacts the initiation development progression immunosuppression metastasis and drug resistance of cancer

The Elusive Road Towards Effective Cancer Prevention and Treatment Franklyn De Silva,Jane Alcorn,2022-10-28 Cancer will remain a global major health problem unless new diagnostic prognostic and management approaches are discovered to address both loss of life and quality of life Here we summarize the general physiology pathology heterogeneity and evolution of cancer current status limitations and challenges associated with prevention incidence treatment survival and mortality as well as future directions with regards to solid tumors Perspectives are provided on how to improve pre clinical understandings outcomes and patient care Further this comprehensive timely overview of the literature has educational value as part of an academic course seminar or as a supplementary text Features This book summarizes the current status successes difficulties advancements limitations and challenges in medical interventions that impact patients quality of life Includes concise descriptions of all relevant cell and molecular biology concepts including evolutionary paradigms hallmarks of cancer and heterogeneity to help understand the pathophysiology of cancer cancer associated disease conditions and

effective cancer therapy Contains an array of colorful figures and schematics summarizing complex informative pathological physiological and biochemical concepts Covers a multitude of sub topics pertaining to cancer biology including diagnosis chemotherapy radiotherapy and targeted therapy metastasis disseminated and circulating tumor cells and cancer stem cells drug resistance and cellular reprogramming complex epigenetics tumor derived exosomes oncogenic viruses metabolic syndrome and cancer metabolism convoluted neovascularization efficient biomarkers immunotherapy role of nutraceuticals and natural products Provides perspectives on how to improve pre clinical understandings and outcomes linking toxicological and pharmacological aspects in patient care This timely relevant comprehensive assortment of scientific literature has educational value to a wider audience including as part of an academic course seminar or as a supplementary text

**Targeting Signaling Pathways in Solid Tumors Part C**, 2024-10-11 Targeting Signaling Pathways in Solid Tumors Part C Volume 389 in the International Review of Cell and Molecular Biology series highlights new advances in the field with this new volume presenting interesting chapters on topics such as Drugging the Undruggable Advances in Targeting KRAS Signaling in Solid Tumors Emerging Trends in Gastrointestinal Cancers Targeting Developmental Pathways in their Carcinogenesis and Tumor Progression Importance of targeting various cell signaling pathways in solid cancers Targeting signaling pathways in cancer stem cells a potential approach for developing novel anticancer therapeutics Factors affecting heterogeneity in breast cancer microenvironment A narrative review and much more Additional sections cover Exploring TLR Signaling Pathways as Promising Targets in Cervical Cancer The Road Less Travelled Provides the latest information on cancer research Offers outstanding and original reviews on a range of cancer research topics Serves as an indispensable reference for researchers and students alike

**Plant-Based Therapeutics, Volume 2** Ivan A. Ross, 2024-10-18 For centuries research has been conducted on the therapeutics of Brassicaceae plants and their health promoting effects Cato the Elder 234 149 BCE documented their properties in his work De agri cultura and recommended using cabbage to compress wounds swelling burns and bone dislocations For arthritis he recommended chopped raw cabbage mixed with coriander and cured cabbage mixed with vinegar and honey In a groundbreaking discovery in the 1990s scientists at Johns Hopkins University isolated sulforaphane from broccoli revealing its potent anticancer properties This naturally occurring compound has proven highly effective safe and tolerable and holds immense promise as a chemoprevention agent It has the potential to combat various cancers including breast prostate gastrointestinal melanoma lung brain and bladder But its potential does not stop there It also shows promise in treating cardiovascular and neurodegenerative diseases and diabetes offering hope for those affected The cancer protecting properties of Brassica plants are mediated through compounds that induce a variety of physiological processes including antioxidant action detoxifying enzymes inducing apoptosis and cell cycle regulation Glucosinolate breakdown products can affect several stages of cancer development including the inhibition of activation enzymes phase I and the induction of detoxification enzymes phase II Isothiocyanates and indole products formed

from glucosinolates regulate cancer cell development by regulating target enzymes controlling apoptosis inhibiting angiogenesis metastasis and the migration of cancer cells and blocking the cell cycle Sulforaphane found in abundance in broccoli sprouts plays a crucial role in upregulating the transcriptional activity of specific genes and restoring epigenetic alterations This is particularly significant as it modifies epigenetic pathways by targeting histone deacetylases and DNA methyltransferases These modifications in turn alter gene transcription and expression particularly in the case of cancers This intricate process of gene regulation is a fascinating study area making broccoli sprouts a compelling component of the epigenetic diet Sulforaphane induces the cytoprotective enzyme NQO1 The inducible expression of NQO1 is regulated principally through the Keap1 Nrf2 ARE signaling pathway The activation of the Nrf2 Keap1 signaling pathway heralds the beneficial actions of drugs known to affect Nrf2 signaling such as dimethyl fumarate an FDA approved treatment for multiple sclerosis and bardoxolone methyl for chronic kidney disease There is optimism that the overall strategies are moving forward Sulforaphane rich broccoli sprout extracts provide one avenue toward this end

**Transcriptome Profiling** Mohammad Ajmal Ali, Joongku Lee, 2022-10-07 Transcriptome Profiling Progress and Prospects assists readers in assessing and interpreting a large number of genes up to and including an entire genome It provides key insights into the latest tools and techniques used in transcriptomics and its relevant topics which can reveal a global snapshot of the complete RNA component of a cell at a given time This snapshot in turn enables the distinction between different cell types different disease states and different time points during development Transcriptome analysis has been a key area of biological inquiry for decades The next generation sequencing technologies have revolutionized transcriptomics by providing opportunities for multidimensional examinations of cellular transcriptomes in which high throughput expression data are obtained at a single base resolution Transcriptome analysis has evolved from the detection of single RNA molecules to large scale gene expression profiling and genome annotation initiatives Written by a team of global experts key topics in Transcriptome Profiling include transcriptome characterization expression analysis of transcripts transcriptome and gene regulation transcriptome profiling and human health medicinal plants transcriptomics transcriptomics and genetic engineering transcriptomics in agriculture and phylotranscriptomics Presents recent development in the tools and techniques in transcriptomic characterization Integrates expression analysis of transcripts and gene regulation Includes the application of transcriptomics in human health genetic engineering and agriculture

*Novel Biomarkers and Big Data-Based Biomedical Studies in Cancer Diagnosis and Management* Lin Zhang , Qingyu Luo, 2025-06-05 Cancer is a multifaceted disease that can elude the natural defense mechanisms of the immune system Due to the heterogeneity and complexity of cancer the technical methods used for pre treatment evaluation prediction of treatment efficacy and prognosis analysis still require further research Immunotherapy has shown immense potential in the treatment of numerous types of cancer Cancer immunotherapy aims to eliminate malignant cells based on their antigen composition and tumor associated antigens PD 1 and PD L1 are

crucial targets for cancer immunotherapy Although various inflammatory factors and immune markers have been identified to aid in selecting appropriate treatment chemotherapy or immunotherapy monitoring treatment efficacy and predicting prognosis the combination of different markers in predictive models performs better than a single marker in enhancing the accuracy of treatment efficacy and clinical judgments In the context of precise cancer treatment novel diagnoses predictive factors and predictive models are essential for better comprehension of cancer treatment and prognosis The amalgamation of big data and artificial intelligence has been widely utilized in various cancer fields including basic cancer research particularly in molecular biological mechanisms metabolic reprogramming tumor biology and clinical transformation research such as cancer prediction early diagnosis methods and development of new treatment methods The systematic and objective data provided by big data and artificial intelligence can guide diagnosis optimize clinical treatment decisions and have a far reaching impact on clinical transformation This research topic aims to explore novel biomarkers and predictive models that predict prognosis treatment efficacy and toxic side effects in cancer patients We welcome submissions including but not limited to

- 1 Clinical research investigating novel biomarkers and their comprehensive predictive models for cancer treatment including chemotherapy radiation therapy targeted therapy and immunotherapy and prognosis
- 2 Original research investigating inflammatory and immune factors associated with various types of cancer particularly breast and gastrointestinal cancer
- 3 Reviews and meta analyses of effective biomarkers and predictive models in cancer treatment and prognosis
- 4 Cancer related basic research and clinical transformation research based on big data and artificial intelligence
- 5 Accurate detection and diagnosis of early cancer intelligent prediction models of neoadjuvant treatment and targeted treatment response of cancer

**Schottenfeld and Fraumeni Cancer Epidemiology and Prevention** Michael J.

Thun,Martha S. Linet,James R. Cerhan,Christopher A. Haiman,David Schottenfeld,2018 The definitive reference for budding and experienced cancer epidemiologists alike American Journal of Epidemiology Practitioners in epidemiology and oncology will find immense value in this JAMA Since its initial publication in 1982 CANCER EPIDEMIOLOGY AND PREVENTION has served as the premier reference work for students and professionals working to understand the causes and prevention of cancer in humans Now revised for the first time in more than a decade this fourth edition provides a comprehensive summary of the global patterns of cancer incidence and mortality current understanding of the major causal determinants and a rationale for preventive interventions Special attention is paid to molecular epidemiologic approaches that address the wider role of genetic predisposition and gene environment interactions in cancer etiology and pathogenesis New and timely chapters on environmental and social epidemiologic factors include The role of social class disparities The role of obesity and physical inactivity The potential effects of electromagnetic fields and radiofrequency radiation The principles of cancer chemoprevention For both seasoned professionals and newer generations of students and researchers this fourth edition of CANCER EPIDEMIOLOGY AND PREVENTION remains the authority in the field a work of distinction that every lab library

student professional or researcher should have close at hand Transcriptome and Single-Cell Sequencing Analyses to Classify Immune Subtypes, Uncover Novel Biomarkers, and Assess Immunotherapeutic Responses in Cancer Hongda Liu, Jie Shen, Zheng Gong, Xianzhou Song, Peixin Dong, 2024-07-24 According to the most recent projections of the International Agency for Research on Cancer IARC there would be around 19.3 million new cases of cancer and 10 million cancer related deaths globally in 2022 Cancer research has never halted In particular research into the cancer immunological microenvironment is gaining popularity **Journal of the National Cancer Institute**, 2011 Science of Ashwagandha: Preventive and Therapeutic Potentials Sunil C. Kaul, Renu Wadhwa, 2017-09-13 Rapidly increasing aging population and environmental stressors are the two main global concerns of increasing incidence of a variety of pathologies in the modern society The complex etiologies and pathologies cause major challenges to disease treatment On the other hand several herbs are known for their health caring and disease curing activities Ashwagandha a popular herb in Indian traditional home medicine Ayurveda has gathered increasing recognition in recent years when the chemically synthesized drugs for single target therapies showed limited success and adverse toxic effects Ashwagandha is known as a powerful adaptogen and trusted to enhance function of the brain reproductive system cell mediated immunity and increase the body's defense against disease and possess anti inflammatory anticancer and anti arthritic activities In this book for the first time we provide a complete portrait on scientific understanding of the effects of Ashwagandha and its active principles for a variety of preventive and therapeutic activities The Role of Iron in Cancer Progression Maryam Mehrpour, Ahmed Hamai, Chang Gong, 2022-11-04 **Nutrition and Cancer Prevention** Thomas Prates Ong, Fernando Salvador Moreno, 2019-11-27 Cancer is a major global public health problem Among different environmental and lifestyle factors contributing to cancer risk diet is a key one On the one hand obesity and increased consumption of red and processed meat ethanol sugar and saturated fatty acids are associated with increased cancer risk On the other hand consumption of micronutrients such as vitamin D selenium zinc folate and bioactive compounds from fruits and vegetables is associated with decreased risk Written by an influential international team of experts this book presents and discusses current topics on nutrition and cancer prevention It covers both nutritional influences on different cancers plus specific chapters on the commonly occurring cancers Nutritional genomics based studies show that some dietary components modulate carcinogenesis through complex cellular and molecular mechanisms A better understanding of these different cellular and molecular mechanisms is needed to establish efficient dietary recommendations for cancer prevention This book will provide such an understanding serving as an important book for all those working in nutritional health food science and cancer research **Translational Toxicology and Therapeutics** Michael D. Waters, Claude L. Hughes, 2017-11-10 Written by leading research scientists this book integrates current knowledge of toxicology and human health through coverage of environmental toxicants genetic epigenetic mechanisms and carcinogenicity Provides information on lifestyle choices that can reduce cancer risk Offers a

systematic approach to identify mutagenic developmental and reproductive toxicants Helps readers develop new animal models and tests to assess toxic impacts of mutation and cancer on human health Explains specific cellular and molecular targets of known toxicants operating through genetic and epigenetic mechanisms      **Selenium and Selenoproteins in Cancer** Francesco Galli, 2017-10-19 Selenium and Selenoproteins in Cancer Volume 136 the latest release in the Advances in Cancer Research series provides invaluable information on the fast moving field of cancer research This updated volume includes chapters on The epidemiology of selenium and human cancer Selenium epigenetics and cancer Selenium status and cancer risk Nutritional aspects of selenium and breast cancer risk focus on cellular and molecular mechanisms Selenoproteins in tumorigenesis and cancer progression Selenoproteins and metastasis The tumor microenvironment and inflammatory factors and Selenium dependent glutathione peroxidases during tumor development This new release in the series presents original reviews on research regarding the prevention and treatment of cancer with selenium Provides information on cancer research and prevention Offers outstanding and original reviews on a range of cancer research topics with this volume focusing on the role of selenium and selenoproteins in cancer prevention Serves as an indispensable reference for researchers and students alike

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