

Membrane Alterations in Cancer

A. Makita

 Springer

Membrane Alterations In Cancer

Gabriel D. Dakubo



Membrane Alterations In Cancer:

Membrane Alterations in Cancer Akira Makita,1983-10-01 In recent years much attention has been paid to cell membrane alterations associated with transformation and malignancy Alterations of tumor cell membrane have been demonstrated in terms of cell biology such as increased agglutinability of tumor cells with lectins and elevation of sugar transport across the membrane Changes in the carbohydrate chains of cell surface glycoproteins and glycolipids probably ascribable to quantitative and qualitative shifts of synthetic and possibly degradative enzymes have been extensively studied Some enzymes which are localized on the cell surface are shed into the circulation of cancer patients and are of potential clinical value While it is clear that new insights into a number of problems have been generated we still do not understand the mechanisms by which changes at the level of the genome bring about membrane changes and how these in turn are the basis for the cancer phenotype autonomous growth metastasis and altered differentiation and function **Cancer Biology** Raymond W. Ruddon,2007-04-05 The fourth edition of this classic text provides a thorough yet concise review of the cellular and molecular mechanisms involved in the transformation of normal into malignant cells the invasiveness of cancer cells into host tissues and the metastatic spread of cancer cells in the host organism It defines the fundamental pathophysiologic changes that occur in tumor tissue and in the host animal or patient Each chapter discusses the historical development of a field citing the key experimental advances to the present day and evaluates the current evidence that best supports or rules out concepts of the molecular and cellular mechanisms regulating cancer cell behavior For all the areas of fundamental cancer research an effort has been made to relate basic research findings to the clinical disease states The book is well written and well illustrated with schematic diagrams and actual research data to demonstrate points made in the text There is also an extensive up to date bibliography making the book valuable to scientists and to physicians students and nurses interested in the field of cancer biology The topics covered include pathologic characterization of human tumors epidemiology of human cancer regulation of cell proliferation and differentiation cellular and molecular phenotypic characteristics of the cancer cell mechanisms of carcinogenesis tumor initiation and promotion viral carcinogenesis oncogenes and oncogene products growth factors chromosomal alterations in cancer mechanisms of tumor metastasis host tumor interactions fundamental aspects of tumor immunology and the advances in cancer cell biology that will lead to improved diagnosis and treatment of cancer in the future **Membranes** Raz Jelinek,2018-05-07 Describes the properties of cellular membranes and their relationship with fundamental biological processes This book provides insight on the chemistry structures model systems and techniques employed for studying membrane properties and processes A major focus is on the prominence of membranes in diverse physiological processes and disease as well as applications of membranes and biomimetic membrane systems in varied disciplines The book aims to illuminate the significance and beauty of membrane science and serve both as an entry point for scholars wishing to embark on membrane research as well as scientists already

working in the field **Biological Responses in Cancer** Enrico Mihich, 2013-11-11 The series of volumes entitled **Biological Responses in Cancer** provides information on approaches through which the interaction between neoplastic and normal cells may be modified. Topics discussed in various volumes include immunological and host defense systems, control mechanisms of cell and population growth, cell differentiation and cell transformation. This volume is specifically concerned with various aspects of cell interactions and regulation within heterogeneous tumor cell populations and their role in tumor progression and metastasis. Knowledge in this area is likely to provide new leads toward the exploitation of novel cellular sites and mechanisms in the development of new types of therapies of cancer. Several topics are discussed within these general areas of consideration. The possibly unique characteristics and mechanisms of tumor vascularization and the potential sites of interference with angiogenesis that might have therapeutic implications are critically evaluated. Tumor cell normal tissue interactions involved in different phases of the growth and metastatic processes are discussed in two chapters dealing with mechanisms of tumor invasion and with the role of collagen in mammary tumor growth. Here again potential leads are identified that may be exploited toward the development of new therapeutic approaches. The evolution of phenotypic diversity as a phenomenon complicating the biology of tumor metastasis and consequently affecting the opportunities offered by chemotherapy is also critically considered **The Pathobiology of Neoplasia** A.E.

Sirica, 2012-12-06 This book is directed primarily to advanced graduate and medical students, postdoctoral trainees and established investigators having basic research interests in neoplasia. Its content is based in part on the lecture outlines and selected histopathology laboratory components of an advanced course entitled *The Pathobiology of Experimental Animal and Human Neoplasia* developed by me for the Experimental Pathology Curriculum of the Department of Pathology at the Medical College of Virginia. In this regard an effort has been made to integrate pathology with carcinogenesis, genetics, biochemistry and cellular and molecular biology in order to present a comprehensive and current view of the neoplastic process. For focus emphasis is mainly being placed on the neoplastic cells themselves and not on associated host mediated responses. It is hoped that this book will accomplish its purpose of providing students and researchers who already possess strong but diverse basic science backgrounds with unifying concepts in tumor pathobiology so as to stimulate new research aimed at furthering our understanding of neoplastic disease. I wish to express my appreciation and heartfelt thanks to the authors whose individual ranges of expertise and research experience clearly bring to their respective chapters unique perspectives that easily transcend any redundancy that may be present. In addition I am grateful to Drs George Vennart, Saul Kay and Fred Meier and to Ms Connie Wilkerson of the Department of Pathology at MCV for their helpful comments and their review of some of the material *Cancer Biomarkers in Body Fluids* Gabriel D. Dakubo, 2016-09-01 The molecular and genetic signatures of cancer are represented in the peripheral circulation and other body fluids giving rise to the liquid biopsy concept. This new paradigm of molecular profiling of cancer cells offers several advantages over traditional tissue

biopsy It is convenient noninvasive conforms to current clinical practice enables real time disease monitoring and the study of tumor evolution can easily be sampled multiple times and this sample is more representative of the heterogeneous cancer cells than biopsy sampling Indeed all aspects of cancer molecular genetic information stemming from DNA both nuclear and mitochondria RNA coding and noncoding peptides and proteins metabolites and lipids are present in body fluids as free cell surface bound or enclosed in membrane vesicles and are being harnessed for disease management Additionally circulating tumor and tumor stem cells provide prognostic information and also enable the study of the intricate molecular processes associated with metastasis and drug resistance This treatise deals with the general principles of the molecular pathology of cancer and its associated imprints in circulation The transitional process from discovery prototype development translational research to product development can be complex and costly The critical path to biomarker development and qualification for successful use in drug development is detailed herein as well This book is of interest to Cancer Researchers Oncologists Clinicians Surgeons Medical Students Nurses Diagnostic Laboratories and Pharmaceutical Industries *Advances in Cancer Research* George F. Vande Woude, George Klein, 2007-04-03 The Advances in Cancer Research series provides invaluable information on the exciting and fast moving field of cancer research A very special event the Nobel Minisymposium Molecular Oncology From Bench to Bedside held at the Karolinska Institutet in Stockholm Sweden was marked the celebration of George and Eva Klein s combined 160th birthday To honor this occasion this 2nd of two volumes brings together contributions by their former students colleagues and collaborators of the past fifty years into a volume of Advances in Cancer Research dedicated to George and Eva Over a decade ago a subdivision of ACR called Foundations in Cancer Research was initiated and the tributes honoring the Kleins bodies of work presented at the minisymposium are especially appropriate for the series **Mechanisms of Invasion and Metastasis** Marc M. Mareel, Patrick De Baetselier, Frans M. Van Roy, 1991-04-23 This book covers important biological immunological and molecular information essential for understanding the rationale and results of experiments and clinical observations on cell cell and cell substrate adhesion hydrolytic activities cell motility immunological and other host elements of the host tumor ecosystem at different sites of the metastatic process genetic and epigenetic elements of the acquisition and the expression of invasive phenotypes 38 tables and 60 computer drawn figures provide comprehensive overviews and a methodological chapter emphasizing the differences and similarities between assays and their relevance for natural situations has also been included Clinical and experimental cancer researchers as well as as post graduate students interested in cancer research will find this book to be an indispensable reference resource **Research Awards Index**, 1988 [The Chemical Biology of Long Noncoding RNAs](#) Stefan Jurga, Jan Barciszewski, 2020-10-01 This book offers a comprehensive and detailed overview of various aspects of long non coding RNAs It discusses their emerging significance in molecular medicine ranging from human cancers to cardiovascular and metabolic diseases Transcriptomic studies have demonstrated that the majority of genomes found in complex organisms are expressed

in highly dynamic and cell specific patterns producing huge numbers of intergenic antisense and intronic long non protein coding RNAs lncRNAs Thousands of lncRNAs have been identified and unlike mRNA they have no protein coding capacity A large repertoire of ncRNAs actively transcribed from the mammalian genome control diverse cellular processes both in terms of development and diseases through a variety of gene regulatory mechanisms lncRNAs have emerged as a new paradigm in epigenetic regulation of the genome Given its scope the book will be of particular interest to molecular chemical cell and developmental biologists as well as specialists in translational medicine involved in disease oriented research It also offers a valuable resource for in silico experts seeking a deeper understanding of lncRNA expression and function through computational analysis of the NGS data

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Current Research on Clinical Cancer Diagnosis, Therapy, and Patient Care Smithsonian Science Information Exchange. Current Cancer Research Project Analysis Center, 1975. 2775 references to research projects being conducted in the United States and elsewhere. Entries arranged under 11 topics: e.g., Cancer therapy; Supportive care of cancer patients and Rehabilitation. Entries include title, researcher, address, contract number, summary, and supporting agency. Indexes by subjects, investigators, contractors, supporting agencies, and contractor numbers. *Current Catalog*. National Library of Medicine.

biology and the genetic roots of oncogenesis Provides in depth coverage of the latest in precision oncology and nanotheranostics including development and clinical use Explores the integration of nanotechnology with precision medicine for creating individualized treatments Includes case studies and regulatory insights that guide pharmaceutical innovation and clinical practice **Mammalian Cell Membranes** G. A. Jamieson,D. M. Robinson,2014-05-20 Mammalian Cell Membranes Volume Three Surface Membranes of Specific Cell Types reviews the knowledge on surface membranes of the various cell types which have been studied in detail This volume contains 10 contributions that cover the review of mammalian cell membranes The topics discussed in the book include epithelial membranes and vitamin A the erythrocyte the platelet and lymphoid cells The carbohydrate components of tumor cell periphery the composition and structure of excitable nerve membrane and the role of membranes in the fertilization process are covered as well Cytologists molecular biologists biochemists and anatomists will find the book very invaluable

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