

Pierre Savagner

Rise and Fall of Epithelial Phenotype:

Concepts of Epithelial-Mesenchymal Transition



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Rise And Fall Of Epithelial Phenotype Concepts Of Epithelial Mesenchymal Transition

Rebecca G. Bagley

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Rise And Fall Of Epithelial Phenotype Concepts Of Epithelial Mesenchymal Transition:

Rise and Fall of Epithelial Phenotype Pierre Savagner, 2007-07-05 Epithelial phenotype is a dynamic stage of differentiation that can be modulated during several physiological or pathological events. The rapid conversion to a mesenchymal like phenotype is called an epithelial mesenchymal transition (EMT). The Rise and Fall of Epithelial Phenotype is the first book to comprehensively introduce the concept of EMT. The first part of this volume describes main examples and models and explains their physiological relevance. These examples include hydra morphogenesis, gastrulation in mouse, *Drosophila* and sea urchin as well as neural crest cell migration and heart morphogenesis in vertebrates. Part two reviews in detail specific EMT molecular pathways covering extracellular induction, transduction and transcription response and modulation of cell-cell adhesion structures. It emphasizes new specific pathways with potential medical applications. EMTs can also be linked to pathological events such as wound healing and cancer progression as detailed in this section of the book.

Ovarian Cancer M. Sharon Stack, David A. Fishman, 2009-09-18 Ovarian carcinoma continues to be responsible for more deaths than all other gynecologic malignancies combined due to a continued inability to achieve detection of early rather than advanced stage disease and the lack of effective tumor specific therapeutics. Ovarian carcinogenesis, invasion and metastatic dissemination require a complex cascade of interrelated genetic, molecular and biochemical events that regulate the neoplastic transition of normal ovarian surface epithelium. This updated second edition includes exciting new advances in ovarian cancer detection and treatment and provides an analysis of current research into aspects of malignant transformation, growth control and metastasis. A more detailed understanding of these processes may ultimately translate into the development of novel approaches for the detection and control of ovarian cancer. *Ways to improve tumor uptake and penetration of drugs into solid tumors* Fabrizio Marcucci, Angelo Corti, Ronald Berenson, 2014-12-05 The main scope of this topic is to give an update on pharmacologic and non pharmacologic approaches to enhance uptake and penetration of cancer drugs into tumors. Inadequate accumulation of drugs in tumors has emerged over the last decade as one of the main problems underlying therapeutic failure and drug resistance in the treatment of cancer. Insufficient drug uptake and penetration is causally related to the abnormal tumor architecture. Thus poor vascularization, increased resistance to blood flow and impaired blood supply represent a first obstacle to the delivery of antitumor drugs to tumor tissue. Decreased or even inverted transvascular pressure gradients compromise convective delivery of drugs. Eventually an abnormal extracellular matrix offers increased frictional resistance to tumor drug penetration. Abnormal tumor architecture also changes the biology of tumor cells which contributes to drug resistance through several different mechanisms. The variability in vessel location and structure can make many areas of the tumor hypoxic which causes the tumor cells to become quiescent and thereby resistant to many antitumor drugs. In addition the abnormally long distance of part of the tumor cell population from blood vessels provides a challenge to delivering cancer drugs to these cells. We have recently proposed additional

mechanisms of tumor drug resistance which are also related to abnormal tumor architecture First increased interstitial fluid pressure can by itself induce drug resistance through the induction of resistance promoting paracrine factors Second the interaction of drug molecules with vessel proximal tumor cell layers may also induce the release of these factors which can spread throughout the cancer and induce drug resistance in tumor cells distant from blood vessels As can be seen abnormal tumor architecture inadequate drug accumulation and tumor drug resistance are tightly linked phenomena suggesting the need to normalize the tumor architecture including blood vessels and or increase the accumulation of cancer drugs in tumors in order to increase therapeutic effects Indeed several classes of drugs that we refer to as promoter drugs have been described that promote tumor uptake and penetration of antitumor drugs including those that are vasoactive modify the barrier function of tumor vessels debulk tumor cells and overcome intercellular and stromal barriers In addition also non pharmacologic approaches have been described that enhance tumor accumulation of effector drugs e g convection enhanced delivery hyperthermia etc Some drugs that have already received regulatory approval e g the anti VEGF antibody bevacizumab exert antitumor effects at least in part through normalization of the tumor vasculature and enhancement of the accumulation of effector drugs Other drugs acting through different mechanisms of action are now in clinical development e g NGR TNF in phase II III studies and others are about to enter clinical investigation e g JO 1

Proprotein Convertases in Gynecological Cancers Daniel Bassi, Andres J. P. Klein-Szanto, 2012 Gynecological cancers include neoplasias of internal female genital organs mainly ovarian endometrial and cervical tumors and cancers of the external female genital structures Current scientific evidence indicates that both up and down regulation of the expression of PCs are part of the multiple changes occurring in these gynecological tumors Nevertheless the physiological significance of this puzzling pattern of PC expression remains elusive The fact that PCs can activate both pro and anticarcinogenic substrates may indicate that the nature of the overexpressed substrates in certain cancer types could determine the final outcome i e slowing or accelerating cancer development

Cellular Adhesion in Development and Disease, 2015-02-27 Cell adhesion is a fundamental determinant of embryonic development and organogenesis Cellular Adhesion in Development and Disease volume 112 in Current Topics in Developmental Biology comprehensively surveys current developments in understanding how adhesion systems affect organismal development Topics covered include nectins nectin like molecules and afadin in development cadherin adhesion signaling and morphogenesis endothelial cell junctions epidermal development and barrier formation and more This book surveys current understanding of how adhesion systems affect organismal development

Metastasis of Breast Cancer R.E. Mansel, Oystein Fodstad, Wen G. Jiang, 2007-06-14 Written by experts in the subject area the book covers a broad range of topics in the metastasis of breast cancer from genetics biology to clinical management Main topics include genetic control biology growth factors cell adhesion cell motility and invasion nature of bone metastasis sentinel node therapies hormonal links new biomarkers and detection of micrometastasis and diagnosis This timely book also covers the

current treatment options *Textbook of the Neurogenic Bladder* Jacques C, David Ginsberg, Gilles Karsenty, 2015-08-03 The editors of this comprehensive third edition of the Textbook of the Neurogenic Bladder have assembled an impressive team of world specialists to develop an essential resource for physicians, continence specialists and other health care professionals involved in the diagnosis and management of patients who have lost normal bladder function The book Epigenetic Regulation of Skin Development and Regeneration Vladimir A. Botchkarev, Sarah E. Millar, 2018-09-03 This indispensable volume highlights recent studies identifying epigenetic mechanisms as essential regulators of skin development, stem cell activity and regeneration Chapters are contributed by leading experts and promote the skin as an accessible model system for studying mechanisms that control organ development and regeneration The timely discussions contained throughout are of broad relevance to other areas of biology and medicine and can help inform the development of novel therapeutics for skin disorders as well as new approaches to skin regeneration that target the epigenome Part of the highly successful Stem Cells and Regenerative Medicine series Epigenetic Regulation of Skin Development and Regeneration uncovers the fundamental significance of epigenetic mechanisms in skin development and regeneration and emphasizes the development of new therapies for a number of skin disorders such as pathological conditions of epidermal differentiation, pigmentation and carcinogenesis At least six categories of researchers will find this book essential including stem cell developmental, hair follicle or molecular biologists and gerontologists or clinical dermatologists The Evolution of Organ Systems Andreas Schmidt-Rhaesa, 2007-08-30 Although there are several books on the phylogenetic relationships of animals, this is the first to focus on the consequences of such relationships for the evolution of organs themselves It provides a summary of evolutionary hypotheses for each of the major organ systems, describing alternative theories in those cases of continuing controversy

Extreme Tissue Engineering Robert A. Brown, 2013-01-02 Highly Commended at the BMA Book Awards 2013 Extreme Tissue Engineering is an engaging introduction to Tissue Engineering and Regenerative Medicine (TERM) allowing the reader to understand, discern and place into context the mass of scientific, multi-disciplinary data currently flooding the field It is designed to provide interdisciplinary ground-up explanations in a digestible, entertaining way, creating a text which is relevant to all students of TERM regardless of their route into the field Organised into three main sections, chapters 1 to 3 introduce and explain the general problems, chapters 4 to 6 identify and refine how the main factors interact to create the problems and opportunities we know all too well, chapters 7 to 9 argue us through the ways we can use leading-edge, extreme concepts to build our advanced solutions Students and researchers in areas such as stem cell and developmental biology, tissue repair, implantology and surgical sciences, biomaterials sciences and nanobiomedicine, bioengineering, bio-processing and monitoring technologies from undergraduate and masters to doctoral and post-doctoral research levels will find Extreme Tissue Engineering a stimulating and inspiring text Written in a fluid, entertaining style Extreme Tissue Engineering is introductory yet challenging, richly illustrated and truly interdisciplinary *The Tumor Microenvironment* Rebecca G.

Bagley,2010-09-02 The fact that tumors are composed of both tumor cells and host cells has long been known These tumor associated cells include vascular endothelial cells and pe cytes as well as inflammatory cells such as neutrophils monocytes macrophages mast cells and eosinophils and lymphocytes The tumor cells also interact with stromal cells and with elements of the tissue extracellular matrix What has been less appreciated is the role that these cells could have in modulating the growth invasion and metastasis of the tumor Early on the elements of what we now call the tumor microenvironment were considered to be more or less innocent bysta ers to the role of the tumor cells as they grew and invaded local sites Today there is an increased understanding of the critical role of the tumor microenvironment as dramatically influencing the course of tumor development and dissemination This volume represents a superb compilation of the latest thoughts and data regarding the role of each essential component of the tumor microenvironment in cancer development and progression Perhaps the earliest recognition of the role of nonmalignant cells as cancer re lators was the recognition that lymphocytes can participate in what was termed immune surveillance in the 1960s Our understanding of tumor immunity has improved markedly since then and there are now successful clinical studies sh ing the potential use of immune based therapies in cancer treatment

Handbook of Proteases in Cancer Sajal Chakraborti,2024-12-13 This handbook provides comprehensive coverage of the role of proteases and the associated biochemical pathways in cancer development and metastasis Proteases make up about 2% of the human genome and play a critical role in the tumor microenvironment Handbook of Proteases in Cancer Cellular and Molecular Aspects introduces the major classes of proteases and the signal transduction mechanisms associated with cancer initiation and progression It discusses the role of inflammation and immune responses in proteases induced cancer The book covers cancer induced gene expression and apoptotic and necrotic pathways in cancer This is useful for researchers and professionals in cancer research biochemistry and physiology Key Features Provides insights on the roles of proteases and anti proteases in the tumor microenvironment Covers various cancer induced apoptotic and necrotic pathways Discusses the mechanisms by which proteases induce an increase in inflammation immune response and gene expression Covers the function of protease activated receptors in cancer Reviews the different gene expression pathways and the ways they become erratic during protease induced cancer

Tumor Microenvironment Alexander Birbrair,2020-06-23 This book provides a comprehensive overview of the latest research on the molecular players in the tumor microenvironment including Cathepsin D galectins iron oxygen Phospholipase D1 leptin extracellular vesicles and more Taken alongside its companion volumes these books update us on what we know about the tumor microenvironment as well as future directions Tumor Microenvironment Molecular Players Part A is essential reading for advanced cell biology and cancer biology students as well as researchers seeking an update on research in the tumor microenvironment

The British National Bibliography Arthur James Wells,2006 The Epithelial-to-Mesenchymal Transition (EMT) in Cancer Joëlle Roche,2018-04-09 This book is a printed edition of the Special Issue The Epithelial to

Mesenchymal Transition EMT in Cancer that was published in *Cancers* **The Journal of Cell Biology** ,2006 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972 *Emerging Translational*

Opportunities in Comparative Oncology with Companion Canine Cancers Mark W. Dewhirst, Rodney L. Page, 2020-03-31

American Book Publishing Record ,2003 *Stem Cells* Laura Boni, Francesco Alviano, Gian Paolo Bagnara, 2025-02-13

The main objective of this book is to present a thorough update on stem cell research and the potential therapeutic applications of stem cells The text is structured following a path that starts from the molecular basics and the biological properties of pluripotent embryonic or reprogrammed stem cells and it compares the different degrees of stemness while describing the adult stem populations residing in the various tissues and organs of the human body and finally introduces the most recently discovered perinatal stem cells derived from placental tissues Starting from basic research the book discusses examples of regenerative medicine that translate the experimental findings into clinical applications of cell therapy Finally the book reviews how stem cells represent a model for understanding the physiological mechanisms that control their fate and the pathological mechanisms involved in the aberrant biology of cancer stem cells Each chapter has been conceived by distinguished researchers who provide detailed and updated contributions that distill knowledge in a very readable text

Journal of the National Cancer Institute ,2009

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