

Roberto Scatena
Alvaro Mordente
Bruno Giardina *Editors*

Advances in Cancer Stem Cell Biology

 Springer

Advances In Cancer Stem Cell Biology

Peipei Pang



Advances In Cancer Stem Cell Biology:

Advances in Cancer Stem Cell Biology Roberto Scatena,Alvaro Mordente,Bruno Giardina,2011-10-06 In recent years cancer stem cells have been recognized as important component in carcinogenesis and they seem to form the basis of many if not all tumor types Cancer stem cells or cancer cell like stem cells have been isolated from various cancers of different origin blood breast brain skin head and neck thyroid cervix lung retina colon pancreas and so on Cancer stem cells rare cells with indefinite proliferative potential that drive the formation and growth of tumours seem to show intriguing relationships with physiological stem cells Specifically these cancer cells show significant similarities in the mechanisms that regulate self renewal of normal stem cells Moreover tumour cells might directly arise from normal stem cells Further the cellular biology of cancer stem cells show a lot of similarities with normal stem cells

Advances in Cancer Stem Cell Biology

Hans-Juergen Schulten,Deema Hussein,Isabel Pires,Petra Krause,2021-05-24

Advancement in Cancer Stem Cell

Biology and Precision Medicine Nikhil Baban Ghatge,Eliza Chakraborty,Vicky Yamamoto,2022-04-19

Principles of

Stem Cell Biology and Cancer Tarik Regad,Thomas Sayers,Robert Rees,2015-04-01 Principles of Stem Cell Biology and Cancer Future Applications and Therapeutics Tarik Regad The John van Geest Cancer Research Centre Nottingham Trent University UK Thomas J Sayers Centre for Cancer Research National Cancer Institute Frederick USA and Robert Rees The John van Geest Cancer Research Centre Nottingham Trent University UK The field of cancer stem cells is expanding rapidly with many groups focusing on isolating and identifying cancer stem cell populations Although some progress has been made developing efficient cancer therapies targeting cancer stem cells remains one of the important challenges facing the growing stem cell research community Principles of Stem Cell Biology and Cancer brings together original contributions from international experts in the field to present the very latest information linking stem cell biology and cancer Divided into two parts the book begins with a detailed introduction to stem cell biology with a focus on the characterization of these cells progress that has been made in their identification as well as future therapeutic applications of stem cells The second part focuses on cancer stem cells and their role in cancer development progression and chemo resistance This section of the book includes an overview of recent progress concerning therapies targeting cancer stem cells Features An authoritative introduction to the link between stem cell biology and cancer Includes contributions from leading international experts in the field Well illustrated with full colour figures throughout This book will prove an invaluable resource for basic and applied researchers and clinicians working on the development of new cancer treatments and therapies providing a timely publication of high quality reviews outlining the current progress and exciting future possibilities for stem cell research

Cancer Stem Cells ,2019-01-26 Cancer Stem Cells Volume 141 in the Advances in Cancer Research series presents the latest release in this ongoing well regarded serial that provides invaluable information on the exciting and fast moving field of cancer research Topics covered in this new release include SIX EYA DACH network control of cancer stem cell properties

Dormancy and the cancer cell niche Clonal hematopoiesis A hematopoietic stem cell disorder of aging Stringent assays to study human breast cancer stem cells Regulation of breast cancer stem cell specification and maintenance by hypoxia inducible factors Cancer stem cells in breast and prostate fact or fiction and much more Provides information on cancer research Offers outstanding and original reviews on a range of cancer research topics with this release focusing on cancer stem cells Serves as an indispensable reference for researchers and students alike

Technological Advances in Cancer Stem Cell Research as Theory Basis in the Development of Animal Embryology Research Dr. Maslichah Mafruchati drh., M.Si, Buku ini berjudul Kemajuan Teknologi Sel Punca Kanker Penelitian Sebagai Landasan Teori Dalam Perkembangan Hewan Penelitian Embriologi Buku ini ditulis oleh seseorang yang ahli dibidangnya dan sudah mempunyai keilmuan publikasi baik nasional maupun internasional pembicara di seminar nasional dan internasional terkait materi buku Buku ini dapat digunakan untuk menambah khazanah ilmu pengetahuan bagi seluruh jenjang pendidikan dan masyarakat umum

Stem Cell Biology in Health and Disease Thomas Dittmar, Kurt S. Zänker, 2009-10-13 Stem Cell Biology in Health and Disease presents an up to date overview about the dual role of stem cells in health and disease The Editors have drawn together an international team of experts providing chapters which in this fully illustrated volume discuss the controversial debate on the great expectations concerning stem cell based regeneration therapies raised by the pluripotency of various stem cells the advantages and concerns about embryonic stem cells ES cells induced pluripotent stem cells iPS cells and adult stem cells such as bone marrow derived stem cells BMDCs the type of stem cells which has become of interest in the past decade namely so called cancer stem cells CSCs CSCs are now in the focus of cancer research since the eradication of tumour initiating cells would raise the changes of definitely cure cancer Professor Dittmar and Professor Zänker have edited a must read book for researchers and professionals working in the field of regenerative medicine and or cancer

Handbook of Research on Advancements in Cancer Therapeutics Kumar, Sumit, Rizvi, Moshahid Alam, Verma, Saurabh, 2020-11-27 The complexity of cancer demands an integrated approach from both a cancer biology standpoint and a pharmaceutical basis to understand the different anticancer modalities Current research has been focused on conventional and newer anticancer modalities recent discoveries in cancer research and also the advancements in cancer treatment There is a current need for more research on the advances in cancer therapeutics that bridge the gap between basic research pharmaceutical drug development processes regulatory issues and translational experimentation and clinical application Recent promising discoveries such as immunotherapies promising therapies undergoing clinical trials synthetic lethality carbon beam radiation and other exciting targeted therapies are being studied to improve and advance the studies of modern cancer treatment The Handbook of Research on Advancements in Cancer Therapeutics serves as a comprehensive guide in modern cancer treatment by combining and merging the knowledge from both cancer biology and the pharmacology of anticancer modalities The chapters come from multi disciplinary backgrounds including scientists and clinicians from both academia and various

industries to discuss nascent personalized therapies and big data driven cancer treatment While highlighting topic areas that include cancer prevention cancer therapeutics and cancer treatments through the lenses of technology medicine drugs and alternate therapies this book is ideally intended for oncologists radiation oncologists surgical oncologists and cancer biologists along with practitioners stakeholders researchers academicians and students who are interested in understanding the most fundamental aspects of cancer and the available therapeutic opportunities

Role of Cancer Stem Cells in Cancer Biology and Therapy Thomas Dittmar, Kurt S. Zanker, 2013-03-01 This book summarizes the latest findings about the role of cancer stem cells CSCs in cancer biology and how this knowledge could be used for novel anticancer therapies It provides an overview of CSCs in selected malignancies with particular emphasis on hematopoietic neoplasias It then reviews the role of CSCs in metastasis formation and initiation of cancer relapses It also examines the dark side of cancer therapy such as conventional cancer therapies that may lead to the origin of recurrence CSCs Finally it supplies a brief overview of current concepts that may allow for a selective eradication of CSCs

Cells—Advances in Research and Application: 2012 Edition, 2012-12-26 Cells Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Cells The editors have built Cells Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Cells in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cells Advances in Research and Application 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Cell Biology and Translational Medicine, Volume 7 Kursad Turksen, 2020-02-03 Much research has focused on the basic cellular and molecular biological aspects of stem cells Much of this research has been fueled by their potential for use in regenerative medicine applications which has in turn spurred growing numbers of translational and clinical studies However more work is needed if the potential is to be realized for improvement of the lives and well being of patients with numerous diseases and conditions This book series Cell Biology and Translational Medicine CBTMED as part of SpringerNature's longstanding and very successful Advances in Experimental Medicine and Biology book series has the goal to accelerate advances by timely information exchange Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas This current book is the seventh volume of a continuing series Chapter Application of iPSC to Modelling of Respiratory Diseases is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Advances in Stem Cell Aging K. Lenhard Rudolph, 2012 Up to date meeting

report of the Else Kröner Fresenius Symposium on Adult Stem Cell Aging Adult stem cells are present in most postnatal tissues of mammals Tissues with high rates of cell turnover depend on the functional capacity of stem cells for lifelong maintenance of tissue homeostasis Adult stem cells are also required for the regeneration of tissues in response to injury as in for example the regeneration of skeletal muscle In addition to its function in tissue homeostasis and regeneration adult stem cells can represent the cell type of origin of various types of cancers including leukemia and colorectal cancer Stem cells are the most long lived cells in the proliferative compartment of mammalian tissues Therefore stem cells have an increased risk of acquiring mutations that could ultimately lead to the transformation of tissue stem cells This publication presents the current knowledge in the field of stem cell aging which was discussed at the Else Kröner Fresenius Symposium on Advances in Stem Cell Aging in 2011 It will be of special interest to scientists working on stem cell research aging regeneration and cancer as well as physicians and scientists specializing in geriatric medicine internal medicine and surgery

Advances in Cancer Research George F. Vande Woude, George Klein, 2009-09-12 Advances in Cancer Research provides invaluable information on the exciting and fast moving field of cancer research Here once again outstanding and original reviews are presented on a variety of topics including tumor dormancy micro RNA tumor angiogenesis cancer in mouse models liposome based chemo and autoimmunotherapy signaling in angiogenesis targeted cancer therapy and regulatory t cells

Pluripotent Stem Cell Biology Craig Atwood, Sivan Vadakkadath Meethal, 2014-07-02 Pluripotent stem cells have the potential to revolutionize treatment options for a range of diseases and conditions This book presents recent advances in our understanding of the biological mechanisms of stem cell self renewal reprogramming and regeneration Also covered are novel methodological advances in the culture purification and use of stem cells as well as the ethical and moral dilemmas of embryo donation and adoption These advances will shape the utilization of stem cells for future basic and applied applications

Stem Cells: Biology and Engineering Phuc Van Pham, 2018-12-07 This new series based on a bi annual conference and its topics represents a major contribution to the emerging science of cancer research and regenerative medicine Each volume brings together some of the most pre eminent scientists working on cancer biology cancer treatment cancer diagnosis cancer prevention and regenerative medicine to share information on currently ongoing work which will help shape future therapies These volumes are invaluable resources not only for already active researchers or clinicians but also for those entering these fields plus those in industry Stem Cells Biology and Engineering is a proceedings volume which reflects papers presented at the Innovations in Regenerative Medicine and Cancer Research conference taken with its companion volume Tissue Engineering and Regenerative Medicine it provides a complete overview of the papers from that meeting of international experts

Physical Sciences and Engineering Advances in Life Sciences and Oncology Paul Janmey, Daniel Fletcher, Sharon Gerecht, Ross Levine, Parag Mallick, Owen McCarty, Lance Munn, Cynthia Reinhart-King, 2015-11-19 This book presents an Assessment of Physical Sciences and Engineering Advances in Life Sciences

and Oncology APHELION by a panel of experts It covers the status and trends of applying physical sciences and engineering principles to oncology research in leading laboratories and organizations in Europe and Asia The book elaborates on the six topics identified by the panel that have the greatest potential to advance understanding and treatment of cancer each covered by a chapter in the book The study was sponsored by the National Cancer Institute NCI at the National Institute of Health NIH the National Science Foundation NSF and the National Institute of Biomedical Imaging and Bioengineering at the NIH in the US under a cooperative agreement with the World Technology Evaluation Center WTEC

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Advances in Nanomaterials-based Cell Biology Research Yunfeng Lin, Ronghui Zhou, 2021-08-20 This book aims to comprehensively summarize the current research status of nanomaterials and cell biology It highlights the biological effects and biomedical applications of nanomaterials for specific diseases bone tissue engineering and skeletal muscle regeneration It also provides the details of the biomedical applications of nucleic acid nanomaterials in drug delivery carriers antimicrobial therapy vaccine and neurodegenerative diseases Therefore this book renders the audience a better understanding of nanomaterials along with the diverse applications in the cell biology field from recent works to perspectives

Prominin-1 (CD133): New Insights on Stem & Cancer Stem Cell Biology Denis Corbeil, 2012-11-19 Prominin 1 or otherwise known as CD133 is a glycoprotein that is present in humans and mice Since the first description of prominin in 1997 in mouse neuroepithelial cells and in human hematopoietic stem cells as AC133 antigen this molecule has aroused a large interest especially as a stem cell marker that gave rise to an ever growing body of publications and more recently its expression in cancer stem cells Controversies as to its role as a cancer stem and its detection in different models as well as its use as a prognostic marker have emerged Yet beyond its use as a stem cell and cancer stem cell marker prominin 1 CD133 displays unique biological features and appears of importance in other processes like for example in retinal biogenesis Indeed this five transmembrane plasma membrane glycoprotein which marks membrane protrusions is associated with several essential processes like cell polarity asymmetric cell division and membrane remodeling We propose to review current knowledge about this intriguing molecule and present pertinent information to

determine the biological role of prominins and assess their importance in medicine and cancer research The primary audience for this book is geared towards scientists and researchers with interest in cancer stem cells stem cells cell biology neurobiology and regenerative medicine

Cancer Stem Cells in Solid Tumors Alison L. Allan, 2011-08-12 The cancer stem cell hypothesis postulates that cancer arises from a subpopulation of tumor initiating cells or cancer stem cells CSCs While the idea of cancer stem cells has been around for more than a hundred years evidence from the fields of hematology and cancer biology has now demonstrated the critical role of stem cells in hematological malignancies and suggested that these same mechanisms are also central to the initiation progression and treatment of solid cancers Clinical and experimental studies have shown that CSCs exhibit many classical properties of normal stem cells including a high self renewal capacity and the ability to generate heterogeneous lineages the requirement for a specific niche microenvironment to grow and an increased capacity for self protection against harsh environments toxins and drugs

Cancer Stem Cells in Solid Tumors represents a detailed overview of cancer stem cells and their role in solid cancers Comprised of 24 chapters this volume will provide readers with a comprehensive understanding of this important and evolving field Topics covered include Introduction of the CSC hypothesis Historical perspectives and the contributing lessons from leukemia Current knowledge regarding the identification and role of CSCs in various forms of solid cancer including breast brain colorectal pancreatic prostate melanoma lung ovarian hepatocellular and head and neck cancer Molecular pathways involved in driving CSC function with a particular focus on the novel convergence of embryonic and tumorigenic signaling pathways In vitro and in vivo assays model systems and imaging modalities for studying CSCs The clinical importance of CSCs for cancer management and treatment including important implications for prognosis prediction and treatment resistance Consideration of the controversy surrounding the CSC hypothesis and important unanswered questions in this field This collective work was written by a group of prominent international experts in cancer biology oncology and or stem cell biology It will serve as a valuable resource for established researchers professors health care professionals and students in the medical and scientific community who are investigating stem cells and or oncology

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