

Prostate Cancer Signaling Networks Genetics And New Treatment Strategies Current Clinical Oncology

Androgen Action in Prostate Cancer Drug Management of Prostate Cancer Molecular Oncology: Underlying Mechanisms and Translational Advancements Gene Expression and Regulation in Mammalian Cells Gene Regulation, Epigenetics and Hormone Signaling Molecular Biology of Prostate Cancer Role of Capsaicin in Oxidative Stress and Cancer Chemical Abstracts Protein Kinase C in Cancer Signaling and Therapy Signaling Pathways and Molecular Mediators in Metastasis The OMICs Stem Cells and Cancer Insulin-like Growth Factors and Cancer Characterization, regulation, and interactions within the protease web Prostate Cancer Castration Resistant Prostate Cancer, An Issue of Urologic Clinics - E-Book Stromal-epithelial Hedgehog Signaling in Prostate Cancer AR Signaling in Human Malignancies: Prostate Cancer and Beyond Prostate Cancer Prostate Cancer: New Insights for the Healthcare Professional: 2011 Edition Tumor Progression and Therapeutic Resistance Knobil and Neill's Physiology of Reproduction Oncogene Proteins Immune Surveillance Systems Biology of Cancer Testicular Cancer: New Insights for the Healthcare Professional: 2012 Edition Prostate Cancer, An Issue of Hematology/Oncology Clinics of North America, E-Book Cancer Research Modern Molecular Biology: Identification and Characterization of Genes Involved in Prostate Cancer Progression Tumor Suppressor Genes in the Pathogenesis of Prostate Cancer Unravelling Cancer Signaling Pathways: A Multidisciplinary Approach Anticancer Research Abeloff's Clinical Oncology E-Book Managing Metastatic Prostate Cancer In Your Urological Oncology Practice Reproductive Issues and the Aging Male Molecular Aspects of Cancer and Its Therapy Epigenetics and Human Health Cancer Signaling Identification and Characterization of Novel Genes Involved in Signaling Pathways that Disrupt Phenotypic Reversion in a Model of Human Breast Cancer Cells in 3-D 1rECM Cultures

Androgen Action in Prostate Cancer

Cancer is a multifaceted and genomically complex disease and data obtained through high throughput technologies has provided near complete resolution of the landscape of how genomic, genetic and epigenetic mutations in cancerous cells effectively influence homeostasis of signaling networks within these cells, between cancerous cells, tumor microenvironment and at the organ level. Increasingly sophisticated information has helped us in developing a better understanding of the underlying mechanisms of cancer, and it is now known that intra-tumor genetic heterogeneity, cellular plasticity, dysregulation of spatio-temporally controlled signaling cascades, and loss of apoptosis are contributory in cancer development, progression and the development of resistance against different therapeutics. It is becoming progressively more understandable that earlier detection of pre-existing or emerging resistance against different therapeutics may prove to be helpful in personalizing the use of targeted cancer therapy. Despite the fact that there is a continuously increasing list of books, being guest edited by researchers, books on the subject are often composed of invited reviews without proper

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sequence and continuity and designed for a particular readership. This book progressively shifts and guides the readers from basic underlying mechanisms to translational approaches to treat cancer.

Drug Management of Prostate Cancer

An overview of the current systems biology-based knowledge and the experimental approaches for deciphering the biological basis of cancer.

Molecular Oncology: Underlying Mechanisms and Translational Advancements

Gene Expression and Regulation in Mammalian Cells

Androgens are critical regulators of prostate differentiation and function, as well as prostate cancer growth and survival. Therefore, androgen ablation is the preferred systemic treatment for disseminated prostate cancer. Androgen action is exerted in target tissues via binding the androgen receptor (AR), a nuclear receptor transcription factor. Historically, the gene expression program mediated by the AR has been poorly understood. However, recent gene expression profiling and more traditional single-gene characterization studies have revealed many androgen-regulated genes that are important mediators of androgen action in both normal and malignant prostate tissue. This book will focus on the androgen-regulated gene expression program, and examine how recently identified androgen-regulated genes are likely to contribute to the development and progression of prostate cancer. Recent studies that have attempted to unravel how these genes are deregulated in androgen depletion independent prostate cancer will be included

Gene Regulation, Epigenetics and Hormone Signaling

The KLK proteins and their encoding genes are increasingly attracting attention among scientists and clinicians worldwide as they represent interesting and functionally distinct biomarkers both under physiological and pathophysiological conditions. This volume on kallikrein-related peptidases (KLKs) reviews the characterization, regulation, and interactions of these proteases within the protease web.

Molecular Biology of Prostate Cancer

"Central dogma" was presented by Dr. Francis Crick 60 years ago. The information of nucleotide sequences on DNAs is

transcribed into RNAs by RNA polymerases. We learned the mechanisms of how transcription determines function of proteins and behaviour of cells and even how it brings appearances of organisms. This book is intended for scientists and medical researchers especially who are interested in the relationships between transcription and human diseases. This volume consists of an introductory chapter and 14 chapters, divided into 4 parts. Each chapter is written by experts in the basic scientific field. A collection of articles presented by active and laboratory-based investigators provides recent advances and progresses in the field of transcriptional regulation in mammalian cells.

Role of Capsaicin in Oxidative Stress and Cancer

Protein kinase C (PKC), a family of serine-threonine kinases, rocketed to the forefront of the cancer research field in the early 1980's with its identification as an effector of phorbol esters, natural products with tumor promoting activity. Phorbol esters had long been of interest to the cancer research field due to early studies in the mouse skin carcinogenesis model, which showed that prolonged topical application of phorbol esters promoted the formation of skin tumors on mice previously treated with mutagenic agents. Research in the last years has established key roles for PKC isozymes in the control of cell proliferation, migration, adhesion, and malignant transformation. In addition, there is a large body of evidence linking PKC to invasion and cancer cell metastasis. Moreover, it is now well established that the expression of PKC isozymes is altered in various types of cancers. More importantly, small molecule inhibitors have been developed with significant anti-cancer activity. The relevance of PKC isozymes in cancer signaling is therefore remarkable. This book will have 4 sections. There will be 23 chapters. Each section will have a brief introduction by an expert in the field (~ 1-2 pages).

Chemical Abstracts

Prostate cancer is the most common noncutaneous prostate cancer. Research has revealed several distinct malignancy and the second leading cause of cancer mechanisms of castration-resistant disease that may deaths among men in the United States. It is a critical converge in patients with disease progression on public health problem and remains incurable in the ADT. Many approaches are currently being evaluated metastatic setting with mortality that usually occurs as to improve the treatment of this condition and these a result of castration-resistant disease. findings have identified several potential targets for Since Huggins and Hodges' report of the dra- therapeutic intervention. These include drugs that are matic clinical effects of suppressing serum testos- more active or less toxic chemotherapy agents; drugs terone levels in men with advanced prostate cancer that induce androgen deprivation; drugs that target in 1941, hormone therapy (also called androgen the androgen receptor and/or androgen synthesis; deprivation therapy [ADT]) has become widely drugs that target specific pathways, including ang- accepted as the mainstay of therapy for the treat- genesis and tyrosine kinase

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inhibitors, endothelin ment of advanced prostate cancer. ADT combined antagonists and matrix metalloproteinase inhibitors; with radiation therapy is a standard of care in the and immunologic approaches. Many of these agents treatment of men with locally advanced prostate seem promising and the rationale and efficacy of cancer on the basis of evidence that shows improved these emerging therapies remain to be validated in survival. The role of ADT in the management of future clinical trials.

Protein Kinase C in Cancer Signaling and Therapy

Castrate Resistant Prostate Cancer is advanced disease that has stopped responding to hormone therapy. This issue of the Urologic Clinics focuses on the various forms of therapy including immunotherapy, first line chemotherapy, and novel targeted agents. Articles on defining the disease and palliative care are also included.

Signaling Pathways and Molecular Mediators in Metastasis

This text provides a comprehensive review of pathophysiology, molecular and cell biology aspects of CRPC, discusses all major clinical trials that have led to approval of 6 new drugs since 2004, explores the role of bone preservation strategies, in depth analysis of combination and sequencing strategies, outlines upcoming novel drugs and trends in research, and stresses the role of palliative care in this incurable disease. Managing Metastatic Prostate Cancer in Your Urological Oncology Practice will serve as a very useful resource for physicians and researchers dealing with, and interested in prostate cancer. It provides a concise yet comprehensive summary of the current status of the field that will help guide patient management and stimulate investigative efforts. All chapters are written by experts in their fields and will include the most up to date scientific and clinical information.

The OMICs

This book is a printed edition of the Special Issue "AR Signaling in Human Malignancies: Prostate Cancer and Beyond" that was published in Cancers

Stem Cells and Cancer

This book highlights recent progress in the molecular, cellular and immunological mechanisms that contribute to the pathophysiology of cancer and the design of therapeutic modalities based upon these molecular insights. This volume serves to introduce the general reader as well as the cancer specialist to personalized perspectives of particular topics in

cancer research by leading research groups in the field. The combination of a "review"-approach with a more research-oriented approach in discussions of specific research topics provides a stimulating and, hopefully, forward-looking volume which serves to update selected aspects of cancer research today. This combination will be useful to both the beginner as well as the more advanced biomedical scientist.

Insulin-like Growth Factors and Cancer

After first introducing the concept of epigenetics, this handbook and ready reference provides an overview of the main research on epigenetics. It adopts a multidisciplinary approach, involving molecular biology, molecular epidemiology and nutritional science, with a special focus of the book is on disease prevention and treatment. Of interest to all healthcare-related professionals as well as nutritionists, and the medical community focusing on disease prevention.

Characterization, regulation, and interactions within the protease web

Molecular biology has rapidly advanced since the discovery of the basic flow of information in life, from DNA to RNA to proteins. While there are several important and interesting exceptions to this general flow of information, the importance of these biological macromolecules in dictating the phenotypic nature of living creatures in health and disease is paramount. In the last one and a half decades, and particularly after the completion of the Human Genome Project, there has been an explosion of technologies that allow the broad characterization of these macromolecules in physiology, and the perturbations to these macromolecules that occur in diseases such as cancer. In this volume, we will explore the modern approaches used to characterize these macromolecules in an unbiased, systematic way. Such technologies are rapidly advancing our knowledge of the coordinated and complicated changes that occur during carcinogenesis, and are providing vital information that, when correctly interpreted by biostatistical/bioinformatics analyses, can be exploited for the prevention, diagnosis, and treatment of human cancers. The purpose of this volume is to provide an overview of modern molecular biological approaches to unbiased discovery in cancer research. Advances in molecular biology allowing unbiased analysis of changes in cancer initiation and progression will be overviewed. These include the strategies employed in modern genomics, gene expression analysis, and proteomics.

Prostate Cancer

The book will detail the history, successes, and failures of targeted therapies for cancer, with a particular focus on IGF systems and cancer.

Castration Resistant Prostate Cancer, An Issue of Urologic Clinics - E-Book

Stromal-epithelial Hedgehog Signaling in Prostate Cancer

Unravelling the intricate cell signalling networks and their significance in cancer poses major intellectual challenge. Keeping this in mind, the book aims at understanding the mechanism of action of different proteins and their complexes in the cancer signalling pathways. Hence, the proposed book that comprises 20 chapters provides a comprehensive introduction on cell signalling, its alterations in cancer, molecules that have been popular targets as well as the ones that are emerging as targets. In addition, it discusses different forms of therapy that are coming up for its treatment. Other than that, a major portion of the book is focused on studying different disciplines at the interface of biology and other areas of science that are being used to understand cancer biology in depth.

AR Signaling in Human Malignancies: Prostate Cancer and Beyond

Prostate Cancer

The first of its kind, this reference gives a comprehensive but concise introduction to epigenetics before covering the many interactions between hormone regulation and epigenetics at all levels. The contents are very well structured with no overlaps between chapters, and each one features supplementary material for use in presentations. Throughout, major emphasis is placed on pathological conditions, aiming at the many physiologists and developmental biologists who are familiar with the importance and mechanisms of hormone regulation but have a limited background in epigenetics.

Prostate Cancer: New Insights for the Healthcare Professional: 2011 Edition

Testicular Cancer: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Testicular Cancer in a compact format. The editors have built Testicular Cancer: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Testicular Cancer 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 Testicular Cancer: New Insights for the Healthcare Professional / 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/>.

Tumor Progression and Therapeutic Resistance

The Fourth Edition of Knobil & Neill continues to serve as a reference aid for research, to provide the historical context to current research, and most importantly as an aid for graduate teaching on a broad range of topics in human and comparative reproduction. In the decade since the publication of the last edition, the study of reproductive physiology has undergone monumental changes. Chief among these advances are in the areas of stem cell development, signaling pathways, the role of inflammation in the regulatory processes in the various tissues, and the integration of new animal models which have led to a greater understanding of human disease. The new edition synthesizes all of this new information at the molecular, cellular, and organismal levels of organization and present modern physiology a more understandable and comparative context. The Fourth Edition has been extensively revised, reflecting new fundamental advancements in this rapidly advancing field. Provides a common language for researchers across the fields of physiology, endocrinology, and biology to discuss their understanding of reproduction. Saves academic researchers time in quickly accessing the very latest details on reproductive physiology, as opposed to searching through thousands of journal articles.

Knobil and Neill's Physiology of Reproduction

Cancer, which has become the second-most prevalent health issue globally, is essentially a malfunction of cell signaling. Understanding how the intricate signaling networks of cells and tissues allow cancer to thrive - and how they can be turned into potent weapons against it - is the key to managing cancer in the clinic and improving the outcome of cancer therapies. In their ground-breaking textbook, the authors provide a compelling story of how cancer works on the molecular level, and how targeted therapies using kinase inhibitors and other modulators of signaling pathways can contain and eventually cure it. The first part of the book gives an introduction into the cell and molecular biology of cancer, focusing on the key mechanisms of cancer formation. The second part of the book introduces the main signaling transduction mechanisms responsible for carcinogenesis and compares their function in healthy versus cancer cells. In contrast to the complexity of its topic, the text is easy to read. 32 specially prepared teaching videos on key concepts and pathways in cancer signaling are available online for users of the print edition and have been integrated into the text in the enhanced e-book edition.

Oncogene Proteins

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Oncogene proteins are proteins coded by oncogenes. They include proteins resulting from the fusion of an oncogene and another gene. This new book presents the latest research in the field from around the world.

Immune Surveillance

Systems Biology of Cancer

Testicular Cancer: New Insights for the Healthcare Professional: 2012 Edition

This issue of Hematology/Oncology Clinics is focused on Prostate Cancer and highlights topics such as: Prevention, Early Detection, Biomarkers, Risk stratification, Imaging in Prostate Cancer, Adjuvant hormonal therapy, Management of patient with biochemical relapse, Management of patient with newly metastatic disease, and Bone Health Management.

Prostate Cancer, An Issue of Hematology/Oncology Clinics of North America, E-Book

Prostate Cancer: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Prostate Cancer. The editors have built Prostate Cancer: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Prostate Cancer 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 Prostate Cancer: New Insights for the Healthcare Professional: 2011 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/>.

Cancer Research

Modern Molecular Biology:

Identification and Characterization of Genes Involved in Prostate Cancer Progression

This book describes the mechanism of the anti-cancer effects of capsaicin including the involvement of cytochrome P-450 in the bioactivation; identification of mitochondria as the key target site for oxidative stress; involvement of mitochondrial respiratory chain in the production of ROS; prevention of chemically-induced carcinogenesis, discussion on TRPV-1 receptor mediated or independent anti-cancer effects; identification of p53 activation as a possible mechanism; involvement of Cox-2 in apoptosis, suppression of transcription factors such as NF-kB and STAT-3; inhibition of cell survival pathways including PI3K/Akt and the involvement of intrinsic mitochondrial cell death pathway.

Tumor Suppressor Genes in the Pathogenesis of Prostate Cancer

This volume presents the entire breadth of translational cancer research and brings together members of academia and industry in the expectation of accelerating interactions and progress in the field. A variety of key topics are presented, beginning with discovery of molecular targets and pathways (oncogene, cell survival, tumor suppression, cell death), host-neoplasm interactions (cell adhesion, matrix proteases), early detection, monitoring progression, understanding tumor progression and metastasis, immune surveillance, in vivo molecular imaging, animal models, drug discovery including chemistry, high-throughput assays, mechanism determination, target validation, therapeutic window and some progress in clinical trials for more advanced agents and targets.

Unravelling Cancer Signaling Pathways: A Multidisciplinary Approach

Anticancer Research

Immune Surveillance deals with the issues regarding tumor immunology and surveillance, in which the central theme is all about the life span of the mammalian host that is depleted by the environment with mutagenic agents and solutions. The book is divided into six chapters. It includes discussions on the organization and modulation of cell membrane receptors, as well as the origin and expression of membrane antigens. It also covers the topics on the triggering mechanisms for and effector mechanisms activated by the cellular recognition. These topics analyze and evaluate alternatives for the recognition and destruction mechanisms in the knowledge of cell cooperation and requirements for immune recognition. A chapter provides discourse on a solution for the paradox of thriving tumors based on the demonstrable in vitro host immunity. Another discusses the generation of antibody diversity and the theory of self-tolerance. The last chapter explains the evaluation of the evidence for immune surveillance. This reference will be invaluable to those who specialize in

immunology.

Abeloff's Clinical Oncology E-Book

Award winning authors present a comprehensive review of new perspectives in prostate cancer research and open up new directions in the clinical management of prostate cancer. The authors focus on the biology, genetics, molecular signaling networks in the disease process, and recent advances in the treatment of prostate cancer. This state-of-the-art title provides key insights into cutting edge advances in prostate cancer and into future, novel treatment strategies.

Managing Metastatic Prostate Cancer In Your Urological Oncology Practice

Reproductive Issues and the Aging Male

This work presents the most advanced discoveries from translational research laboratories directly involved in identifying molecules and signalling pathways that play an instrumental role in metastasis. In contrast to other works, conventionally focused on a single type of tumour, the various chapters in this book provide a broad perspective of the similarities and discrepancies among the dissemination of several solid malignancies. Through recurrent and overlapping references to molecular mechanisms and mediators, the readers will gain knowledge of the common ground in metastasis from a single source. Finally, an introductory chapter provides a clinical perspective of the problems presented by metastatic tumours for diagnosis and treatment. The work presented here is directed to researchers in tumour biology with a developing interest in metastatic dissemination as well as medical and graduate students seeking to expand and integrate the notions acquired in basic cancer biology and oncology courses.

Molecular Aspects of Cancer and Its Therapy

Practical and clinically focused, Abeloff's Clinical Oncology is a trusted medical reference book designed to capture the latest scientific discoveries and their implications for cancer diagnosis and management of cancer in the most accessible manner possible. Abeloff's equips everyone involved - from radiologists and oncologists to surgeons and nurses - to collaborate effectively and provide the best possible cancer care. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Select the most appropriate tests and imaging studies for cancer diagnosis and staging of each type of cancer, and manage your patients in the most effective way possible by using all of the latest techniques and approaches in oncology. Enhance your understanding of complex concepts with a color art

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program that highlights key points and illustrates relevant scientific and clinical problems. Stay at the forefront of the latest developments in cancer pharmacology, oncology and healthcare policy, survivorship in cancer, and many other timely topics. See how the most recent cancer research applies to practice through an increased emphasis on the relevance of new scientific discoveries and modalities within disease chapters. Streamline clinical decision making with abundant new treatment and diagnostic algorithms as well as concrete management recommendations. Take advantage of the collective wisdom of preeminent multidisciplinary experts in the field of oncology, including previous Abeloff's editors John E. Niederhuber, James O. Armitage, and Michael B. Kastan as well as new editors James H. Doroshow from the National Cancer Institute and Joel E. Tepper of Gunderson & Tepper: Clinical Radiation Oncology. Quickly and effortlessly access the key information you need with the help of an even more user-friendly, streamlined format. Access the complete contents anytime, anywhere at Expert Consult, and test your mastery of the latest knowledge with 500 online multiple-choice review questions.

Epigenetics and Human Health

The OMICs: Applications in Neuroscience summarizes the state of the art in high-throughput approaches (collectively known as 'OMICs') in neurology and neuroscience, and is of interest to both neurologists tracking the progress of these methods towards clinical applications, and neuroscientists curious about the most recent advances in this ever-changing field. The explosion of high-throughput assays has introduced large datasets, computational servers, and bioinformatics approaches to neuroscience, and medicine in general. The book includes a rich survey of the most relevant OMICs applications and how they relate to neurology and neuroscience. The reader is given an overview of the method, a perspective on the current and future applications, and published examples illustrating practical uses.

Cancer Signaling

Prostate Cancer: Biology, Genetics, and the New Therapeutics, Second Edition, reviews new, valuable approaches to the treatment of prostate cancer in men. The latest edition contains new material on molecular imaging, new treatments for prostate cancer, molecular targets, cell signaling pathways, bioinformatics, and pathogenomics. The book details the latest innovations and advances in prostate cancer and may be used as a rapid reference text for readers. The volume profiles the latest advances in cancer research and treatment and includes profound studies in prostate stem cells, cancer-host interactions, hedgehog signaling in development and cancer, cholesterol and cell signaling, gene therapy for advanced prostate cancer, and noninvasive strategies such as molecular imaging to visualize gene expression. This new edition also investigates expression profiling and somatic alterations in prostate cancer progression and linkage studies of prostate cancer families to identify susceptibility genes. The issues of racial differences in prostate cancer mortality, radiotherapy for

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the treatment of locally advanced prostate cancer, recombinant antibody candidates for treatment, taxane-based chemotherapy, lethal phenotypes, and novel and efficient translation clinical trials are also presented in great depth. Prostate Cancer: Biology, Genetics, and the New Therapeutics, Second Edition, provides readers with a general reference for prostate cancer from prevention to therapy and will be of value to clinicians, scientists, and administrators who strive to solve the cancer problem.

Identification and Characterization of Novel Genes Involved in Signaling Pathways that Disrupt Phenotypic Reversion in a Model of Human Breast Cancer Cells in 3-D 1rECM Cultures

Describes the role of cancer stem cells and progenitor cells in the progression to cancer. This volume refers to the role of stem cells in well-characterized diseases such as prostate and hepatocellular cancer, melanoma, chronic myeloid leukaemia and stem cell/cancer stem cell properties.

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