

Book Reviews

Editorial Policy. Recently published books and journals (one copy) are invited by the Editorial Office for announcement and review in ANTICANCER RESEARCH (no fee). Each announcement should include the full title of the publication, authors or editors, the number of pages, price, year of publication, ISBN and publisher. Publishers will be notified upon receipt of books and tear sheets of reviews will be sent after publication. Books will be returned to the sender only if the announcement is rejected. Reviews will be objective and clear regarding the content, quality and usefulness of the publication.

Cancer Gene Profiling. Methods and Protocols.

Edited by R. Grützmann, C. Pilarsky.

2010, pp. 450, Eur 89.95, ISBN: 978-1-934115-76-3.

Humana Press, Springer Science + Business Media, New York, NY, USA.

Over the last few years, the methods for analyzing cancer-related genes on a molecular level have changed rapidly. The advent of incredible new technology, such as automated sequencing, has served as a catalyst for many advances in the area of gene profiling, and has enabled the research community to investigate populations of cells in a given tissue. This Volume examines the world of cancer gene profiling in light of these new advances, providing highly developed microarray techniques alongside modern methods for arraying tissues and proteomics. Chapters bring together the experiences of leading scientists in each method of profiling, providing a clear overview of the ground-breaking techniques used to perform these experiments effectively. Composed in the successful *Methods in Molecular Biology™* series format, each chapter contains a brief introduction, step-by-step methods, a list of necessary materials, and a Notes section which shares tips on troubleshooting and avoiding known pitfalls.

Comprehensive and state-of-the-art, *Cancer Gene Profiling: Methods and Protocols* is a fundamental guidebook for researchers in the field of cancer gene profiling, as well as for those individuals in the area of biomedical/translational research.

Stem Cells in the Respiratory System.

Edited by M. Rojas.

2010, pp. 168, Eur 149.95, ISBN: 978-1-60761-774-7.

Humana Press, Springer Science + Business Media, New York, NY, USA.

In this exploration of a hugely dynamic and fast-evolving field of research, leading researchers share their collective wisdom on the role that stem cells could play in the context of physiological stress and lung injury. The text focuses on reviewing the most relevant—and recent—ideas on using local, endogenous, and exogenous progenitor/stem cells in preventing and treating injury to the lung.

The lungs are one of the most complex organs in the human body, with a mature adult lung boasting at least 40 morphologically differentiated cell lineages. Our entire blood

supply passes through the lung's alveolar units during oxygenation. This interaction with the outside world, along with the intricacies of its structure, makes the lung a highly susceptible organ that is vulnerable to numerous types of injury and infection. This means that the mechanisms of lung repair are in themselves correspondingly complex.

Because of their multipotentiality, as well as the fact of the lung's relatively rapid cell turnover, stem cells are thought to be an important alternative cell-base therapy in lung injury. Despite the controversial nature of stem cell research, there has been growing interest in both local and endogenous stem cells in the lung. This highly topical book with chapters on everything from using mesenchymal stem cells in lung repair to the effect of physical activity on the mobilization of stem and progenitor cells, represents an exciting body of work by outstanding investigators and will be required reading for those with an interest in the subject.

Protein Kinase C in Cancer Signaling and Therapy.

Edited by M.G. Kazanietz.

2010, pp. 494, Eur 149.95, ISBN: 978-1-60761-542-2.

Springer Science + Business Media, New York, NY, USA.

The Protein Kinase C (PKC) serine-threonine kinases represent one of the first families of signaling molecules implicated in carcinogenesis. Originally identified as the intracellular targets for the phorbol esters, natural products with tumor promoting activity, PKC isozymes are known to mediate the actions of growth factors and hormones, and have been widely implicated in the control of cell proliferation, survival, migration, adhesion, and malignant transformation. In addition, there is a large body of evidence linking PKC to invasion and cancer cell metastasis. Moreover, expression of PKC isozymes is altered in various types of cancers and correlates in many cases with the progression of the disease. Over-expression of PKC isozymes in mouse models can lead to the development of cancer. PKCs also mediate the action of chemotherapeutic drugs or in some cases they are involved in the resistance to chemotherapeutic agents. More importantly, small molecule PKC inhibitors have been developed with significant anti-cancer activity. The relevance of PKC isozymes in cancer signaling is therefore remarkable.

This volume is composed of twenty-three chapters written by leading experts in the field. The book is divided into four sections: Regulation of PKC isozyme function: from genes to biochemistry, PKC isozymes in the control of cell function, PKC isozymes in cancer, and PKC isozymes as targets for cancer therapy. Each section of the volume begins with an introduction by an established professional in the field of PKC, followed by chapters that elucidate the importance of PKC in current cancer research.

Immunotherapy of Cancer. Methods and Protocols.

Edited by P. Yotnda.

2010, pp. 356, Eur 109.95, ISBN: 978-1-60761-785-3.

Humana Press, Springer Science + Business Media, New York, NY, USA.

A continuously evolving technique, immunotherapy for the treatment of cancer now incorporates the use of immune cells infused during bone marrow transplants as well as approaches like cell and gene therapy, while stem cell-based therapies, tissue engineering, and targeting have also contributed to the latest successes in pre-clinical immunotherapy studies. In this volume, expert researchers in the field describe detailed procedures for trainees and experts in the area of basic, clinical science who wish to undertake their own cutting-edge immunotherapy studies. In addition to the protocols, the volume also contains two general overviews providing useful updates in each area as well as summaries of recent pre-clinical and clinical trials. Written in the successful *Methods in Molecular Biology*TM series format, chapters include introductions to their respective topics, lists of the necessary materials, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and up-to-date, *Immunotherapy of Cancer: Methods and Protocols* seeks to guide scientists along the path to a further developed system of immunotherapeutic treatments in order to reduce and hopefully eradicate this terrible disease.

Bioactive Compounds and Cancer.

Edited by J.A. Milner, D.F. Romagnola.

2010, pp. 824, Eur 199.95, ISBN: 978-1-60761-626-9.

Humana Press, Springer Science + Business Media, New York, NY, USA.

Because of the wealth of new information generated by the scientific community during the last decade on the role of nutrition on cancer risk, this book provides a forum for presentation and discussion of recent scientific data and highlights a set of dietary recommendations. This volume presents chapters that highlight laboratory and clinical findings on how selected nutrients function as signaling molecules and, as such, influence cellular behavior and cancer predisposition. This important compendium focuses on understanding the role of nutrition in cancer biology, the molecular action of bioactive food components and xenobiotics on cancer risk, the role of dietary components in cancer prevention and/or treatment, and nutrition education with the most up to date dietary recommendations that may reduce cancer risk. This volume will be of interest to specialized health professionals, clinicians, nurses, basic and clinical researchers, graduate students, and health officials of public and private organizations.

mTOR Pathway and mTOR Inhibitors in Cancer Therapy.

Edited by V.A. Polunovsky, P.J. Houghton.

2010, pp. 301, Eur 149.95, ISBN: 978-1-60327-270-4.

Humana Press, Springer Science + Business Media, New York, NY, USA.

This volume provides an up-to-date survey of the rapidly advancing field of cancer therapy. Our understanding of the mechanisms involved in cancer genesis and progression underwent unprecedented expansion during the last decade,

opening a new era of cancer treatment – targeted therapy. The surge in this area results in no small part from studies conducted jointly by basic health scientists and clinical investigators. It is our hope that this book will help foster even further collaboration between investigators in these two disciplines.

In this work, experts in TOR signaling have contributed in two thematic areas: mTOR Signaling and Cancer Therapy (chapters 1 - 8) and Therapeutic Targeting Downstream of mTOR (chapter 9 – 13). All chapters of the book are completely new or have been extensively updated by their authors; and we are indebted to all authors who have exemplified the links between these 2 thematic areas.

Hematopathology. Genomic Mechanisms of Neoplastic Diseases.

Edited by D. Crisan.

2010, pp. 358, Eur 159.95, ISBN: 978-1-60761-261-2.

Humana Press, Springer Science + Business Media, New York, NY, USA.

This volume will keep physicians abreast of the rapid and complex changes in genomic medicine, as exemplified by the molecular pathology of hematologic malignancies. This timely volume will update physicians on the complexities of genomic lesions, as well as offer an integrated framework encompassing molecular diagnosis, the new WHO classification of hematologic neoplasms with focus on molecular pathology, prognostic value of molecular tests, and molecular monitoring of response to gene-targeted therapy. As such, it will be of great value to hematologists, oncologists, pathologists, internal medicine and pediatric specialists, as well as bioscientific staff and laboratorians in private hospitals and academic institutions.

Drug Management of Prostate Cancer.

Edited by W.D. Figg, C.H. Chau, E.J. Small.

2010, pp. 428, Eur 159.95, ISBN: 978-1-60327-831-7.

Springer Science + Business Media, New York, NY, USA.

This book is a comprehensive, concise summary of the pharmacological treatments of prostate cancer. It is an authoritative and up-to-date reference on therapeutic options involving both standard of care and investigational agents. The chapters describe state of the art information on Hormone Therapy, Chemotherapy, Angiogenesis, Therapy for Bone Metastases, Immunotherapy, Prevention, and Drug Development. *Drug Management of Prostate Cancer* is an excellent resource for medical oncologists, trainees, researchers, and members of the pharmaceutical industry

Dietary Components and Immune Functions.

Edited by R.R. Watson, S. Zibadi, V.R. Preedy.

2010, pp. 693, Eur 179.95, ISBN: 978-1-60761-060-1.

Humana Press, Springer Science + Business Media, New York, NY, USA.

This volume focuses on immune modulation, immune mediated disease resistance, immune changes due to AIDS, immune modulated cancer therapy, and autoimmune diseases as modified by dietary supplement, bioactive foods and supplements. The potential value of such approaches in maintaining wellness and preventing disease are addressed by examining their effects *in vitro* and *in vivo* on innate and adaptive immune responses. Emerging fields of science and important discoveries relating to early stages of new nutraceuticals in cancer prevention, prior to clinical trials are also covered.

This volume represents a single source of material related to nutraceuticals and their constituents as they relate to cancer therapy and prevention. As such the book will be essential reading for nutritionists, pharmacologists, health care professionals, research scientists, cancer workers, pathologists, molecular or cellular biochemists, physicians, general practitioners as well as those interested in diet and nutrition in disease resistance via immune regulation.

Rectal Cancer. International Perspectives on Multimodality Management.

Edited by C.G. Willett.

2010, pp. 313, Eur 139.95, ISBN: 978-1-60761-566-8.

Humana Press, Springer Science + Business Media, New York, NY, USA.

This book delivers state of the art information on the evaluation and management of rectal cancer. Covering the spectrum of clinical management from initial evaluation and staging, to advances and controversies in management, to survivor outcomes, sphincter preservation and quality of life, it is a comprehensive resource for this rapidly changing field. Surgery, radiation therapy, chemotherapy, radiology, endoscopy, and pathology are fully explored, including the use of both novel and contemporary approaches in each of these disciplines. With examination of trials in the United States and Europe, this book features the unique clinical insights of a cadre of world renowned specialists.

Rectal Cancer: International Perspectives on Multimodality Management is an engaging discussion of current and future directions. This book is necessary reading for medical, surgical, and radiation oncologists as well as pathologists, radiologists, and gastroenterologists treating primary, recurrent, and metastatic rectal cancer.

Amyloidosis: Diagnosis and Treatment.

Edited by M.A. Gertz, S.V. Rajkumar.

2010, pp. 238, Eur 160.45, ISBN: 978-1-60761-630-6.

Humana Press, Springer Science + Business Media, New York, NY, USA.

An up-to-date reference on this fascinating set of complex disorders, this book features the most comprehensive strategies for diagnosing, classifying, imaging, treating, and managing amyloidosis in multiple organ systems. Beneficial to the spectrum of practitioners from residents to sub-specialists, this

book is a succinct authoritative text written by leaders in the field. The authors provide instruction on all forms of amyloidosis - including primary amyloidosis (AL), secondary amyloidosis (AA), and familial amyloidosis. With essential treatment algorithms, this volume is the gold-standard for all hematologists, oncologists, and internists caring for patients with this disease.

Handbook of Evidence-Based Radiation Oncology.

Second Edition. Edited by E.K. Hansen, M. Roach III.

2010, pp. 786, Eur 49.95, ISBN: 978-0-387-92987-3.

Springer Science + Business Media, New York, NY, USA.

The practice of radiation oncology has become increasingly evidence-based and in this setting it is critical to have a practical and portable reference. This handbook was edited and written by the medical staff of UCSF Department of Radiation Oncology with this purpose in mind, and it quickly established itself as a vital resource for the daily needs of radiation oncologists. The Second Edition of the Handbook builds on this success. Once again designed to fit in a white coat pocket, this convenient text is filled with the most important information on cancer management for all major anatomical sites. Easy-to-read tables present the most current 2010 AJCC and FIGO staging systems. Up-to-date treatment recommendations and brief summaries of key studies and trials are included throughout the book. New color figures are incorporated to reflect modern practice. Concisely written, and organized by body site for quick reference, this handbook was created from start to finish to meet the needs of the busy radiation oncologist.

IARC Monographs on the Evaluation of Carcinogenic Risk to Humans.

Volume 94: Ingested Nitrate and Nitrite, and Cyanobacterial Peptide Toxins.

2010, pp. 450, ISBN: 978-92-832-1294-2.

International Agency for Research on Cancer, Lyon, France.

This monograph focuses (a) on ingested nitrate and nitrite ions for which food and water are the major pathways of human exposure, and (b) on cyanobacterial peptidotoxins, microcystin-LR and nodularin. The book comprehensively presents exposure data, studies of cancer in humans and experimental animals, mechanistic and other relevant data.

Organic Chemist's Desk Reference.

Second Edition. By C. Cooper.

2011, pp. 268, £48.99, ISBN: 978-1-4398-1164-1.

CRC Press, Boca Raton, FL, USA.

Since the first publication in 1995, the Organic Chemist's Desk Reference has been essential reading for laboratory chemists who need a concise guide to the essentials of organic chemistry — the literature, nomenclature, stereochemistry, spectroscopy,

hazard information, and laboratory data. The past fifteen years have witnessed immense growth in the field of chemistry and new discoveries have continued to shape its progress. In addition, the distinction between organic chemistry and other disciplines such as biochemistry and materials science has become increasingly blurred. Extensively revised and updated, this new edition contains the very latest data that chemists need access to for experimentation and research. Revisions include: rearrangement of contents; expanded topics; updated information on mass spectroscopy, and infrared, ultraviolet, and nuclear magnetic resonance spectrometry; new sections on chiral separations and crystallography.

Prostate Cancer.

Second Edition. Edited by M. Mason, L. Moffat.
2010, pp. 102, £9.99, ISBN: 978-0-19-957393-6.
Oxford University Press, Oxford, UK.

Around 32,000 men in the UK are diagnosed with prostate cancer each year. It differs from most other cancers in the body, in that small areas of cancer within the prostate are very common and may not grow or cause any problems for many years. It is often diagnosed during a routine checkup so most men that are diagnosed often have no warning signs.

About one in three men over the age of 50 have some cancer cells within their prostate and nearly all men over the age of 80 have a small area of prostate cancer. It may cause pain, difficulty in urinating, erectile dysfunction and other symptoms, but early prostate cancer usually causes no symptoms.

Since the first edition of this book was published in 2003, there have been several groundbreaking studies completed that have changed the way that certain categories of the disease are treated. This new edition of the book includes sections on

radiotherapy, which is now known to be an effective treatment for men with residual prostate cancer after surgery, and a heavily updated chapter on advanced disease.

Cancer Sourcebook for Women.

Edited by K. Bellenir.
2010, pp. 698, US\$95.00, ISBN: 978-0-7808-1139-3.
Omingraphics, Holmes, PA, USA.

According to the National Cancer Institute, cancer continues to take a devastating toll. Among women in the United States, cancer is the second-leading cause of death after heart disease. Medical researchers fighting against cancer have made significant progress, however. In recent years, cancer incidence rates have been stable, and—although the annual rate of decline in cancer death rates among men have been twice as large as the declines in women—mortality has decreased for ten of the top 15 cancers in women. With improved cancer screening programs and innovative treatments, women receiving a cancer diagnosis today have a better chance of overcoming their disease than ever before.

This volume offers updated information about gynecologic cancers and other cancers of special concern to women, including breast cancer, cancers of the female reproductive organs, and cancers responsible for the highest number of deaths in women. It explains cancer risks—including lifestyle factors, inherited genetic abnormalities, and hormonal medications—and methods used to diagnose and treat cancer. Practical suggestions for coping with the treatment side effects are provided, and a section on cancer survivorship discusses methods for maintaining quality of life during and after treatment. The book concludes with a glossary of cancer-related terms, a directory of resources, and facts about locating support groups.

Announcements

**9th International Gastric Cancer Congress.
20-23 April 2011, Seoul, South Korea.**

Information: www.9igcc.com

**EPMA World Congress.
15-18 September 2011, Bonn, Germany.**

Information: European Association for Predictive, Preventive and Personalised Medicine, www.epmanet.eu