

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.

Molecular Approach to Cancer Management. 1st Edition.

Edited by G. Sherbet.

2017, pp 352, Eur 164.45, ISBN: 978-0-12-812896-1.
Academic Press, Elsevier, Cambridge, MA, USA.

Molecular Approach to Cancer Management discusses molecular mechanisms of cancer initiation, growth and secondary spread, emphasizing how this information can be used to devise new modes of treatment of cancer, especially in combating secondary spread. The book addresses the basic concepts relating to cancer biology, the genetic determinants, and the signal transduction cascades associated with tumor growth, EMT, stem cell maintenance and propagation, and invasion and metastasis. The salient features of the signaling systems that are amenable to targeted manipulation are emphasized to facilitate research and development in the design of novel therapies and for the planning of new trials.

This book is the only unique volume with coverage of topics that target therapy. As such, it is a valuable source for cancer researchers, molecular oncologists and members of the biomedical field who are interested in knowing more about molecular approaches to cancer therapy.

Key Features: • Covers all relevant topics with a defined aim of targeted therapy; • Encompasses the basic aspects of cancer invasion and metastasis; • Discusses signaling systems operating in normal cells and their deregulation in cancer cells; • Directs attention to the foci in signaling systems that can be targeted with a new and conventional drug-based approach.

Patient-Derived Mouse Models of Cancer. Patient-Derived Orthotopic Xenografts (PDOX).

Edited by R.M. Hoffman.

2017, pp 296, Eur 117.69, ISBN: 978-3-319-57423-3.
Springer International Publishing, Cham, Switzerland.

This book highlights seminal discoveries and also provides comprehensive and state-of-the-art approach to mouse models of human patient tumors. These areas include training, basic techniques, as well as general troubleshooting. Subsequent chapters focus on the different mouse models of patient tumors including the various strains of immunodeficient mice currently

available and the transplantation techniques that can be used as well as state-of-the-art imaging techniques. Practical applications of the models from drug discovery, genome analysis to personalized treatment are also covered. Written by experts in that field, each of these sections address these critical issues. A brief review of the existing literature addressing the particular topic follows in each section.

Presently, there is no single source to provide information on technique and uses of mouse models of human patient tumors. *Patient-Derived Mouse Models of Cancer* will satisfy this need for cancer researchers, oncologists, pharmaceutical and biotechnology industry scientists as well as molecular biologists studying *in vivo* systems.

Translational Advances in Gynecologic Cancers. 1st Edition.

Edited by M. Birrer, L. Ceppi.

2017, pp 354, Eur 103.44, ISBN: 978-0-12-803741-6.
Academic Press, Elsevier, Cambridge, MA, USA.

Translational Advances in Gynecologic Cancers straddles the bench and bed divide by highlighting important and interesting research that is translatable to the clinic. The contents of this book cover the entire spectrum, from promising laboratory based research, to clinical trial efforts. Further, new therapeutic indications based upon randomized phase III trials are also included.

Clinicians will learn about lab-based science that is about to enter the clinic, along with the rationale behind translational endpoints in trials. Researchers will be able to identify and understand the clinical needs of patients with these types of tumors to improve their research focus.

Key Features: • Provides a comprehensive description of all evolving translational gynecologic cancer research for clinicians; • Identifies knowledge gaps to inform the next research direction; • Ties together clinical research and patient needs to help both the researcher and clinician; • Addresses genomics, new target therapies, novel tools, and more for ovarian, endometrial, and cervical cancer.

Congenital and Acquired Bone Marrow Failure. 1st Edition.

Edited by M.D. Aljurf, E. Gluckman, C. Dufour.

2017, pp 274, Eur 82.57, ISBN: 978-0-12-804152-9.
Academic Press, Elsevier, Cambridge, MA, USA.

Congenital and Acquired Bone Marrow Failure is a comprehensive guide to congenital and acquired bone marrow failure in adult and pediatric patients. Chapters are divided into two sections, acquired aplastic anemia and inherited bone marrow failure syndromes. Content ranges from the basic, to the translational, and from the epidemiology of acquired aplastic anemia and telomere biology, to the management, treatment, and supportive care of pediatric, adult, and geriatric patients.

Contributors are world leading experts in the field of bone marrow failure. The book is required reading for residents, fellows, clinicians, and researchers across hematology, oncology, pathology, bone marrow transplantation, pediatrics, and internal medicine.

Key Features: • Provides an overview of all congenital and acquired bone marrow failure syndromes; • Focuses on the molecular pathogenesis, clinical manifestation and diagnosis, laboratory features, and treatment of each disease within the syndromes; • Features the area of supportive care which is a topic of great interest to infectious disease physicians and those involved in transfusion services.

Handbook of Supportive and Palliative Radiation Oncology.

Edited by M.S. Krishnan, M. Rasca, H.-H.M. Yu.
2017, pp 326, Eur 124.20, ISBN: 978-0-12-803523-8.
Academic Press, Elsevier, Cambridge, MA, USA.

Handbook of Supportive and Palliative Radiation Oncology serves as a practical tool and rapid reference to assist radiation oncology practitioners in direct patient care with common palliative care issues. Containing the most recent advances in translational palliative care research, each chapter is organized in a succinct fashion to discuss major symptom burdens, suggested assessment, and various management options. Each symptom and disease section is written to be a rapid, practical guide for clinicians on the floor.

The book starts with general approaches in palliative radiation oncology that are followed by a section that focuses on common symptoms in palliative care and their management. The next section of the book is devoted to site and disease-specific evaluation, intervention, and management.

Thyroid Cancer and Nuclear Accidents. 1st Edition.

Edited by S. Yanashita, G. Thomas.
2017, pp 246, Eur 82.75, ISBN: 978-0-12-812768-1.
Academic Press, Elsevier, Cambridge, MA, USA.

Thyroid Cancer and Nuclear Accidents: Long-Term Aftereffects of Chernobyl and Fukushima discusses the radiobiological effects of the release of radioiodine from two nuclear power plant accidents and appropriate interpretation of the results of thyroid ultrasound examination. The book pulls together expert opinion on radiation related thyroid cancer in an understandable manner, even for non thyroidologists.

The book explains what has been learned from both accidents in relation to prevention of thyroid cancer following nuclear power plant accidents. The book encompasses topics such as risk estimations of thyroid cancer following nuclear accidents and clinical aspects after those specific situations. Additionally, it discusses in detail the reports from Fukushima related to thyroid cancer in the population. This book is a valuable resource for oncologists and biomedical researchers with interest in nuclear accidents and cancer cases.

Key Features: • Offers an overview of the major cancer reports from the Chernobyl and Fukushima disasters; • Encompasses authoritative data and interpretation of the thyroid screening program in Japan; • Presents the content in a didactic way to help readers interpret and explain the topic to non-experts; • Discusses risk estimations of thyroid cancer following nuclear accidents.

Cancer Disparities, Volume 133. 1st Edition.

Edited by M.E. Ford, D.K. Watson.
2017, pp 174, Eur 140.30, ISBN: 978-0-12-809878-3.
Academic Press, Elsevier, Cambridge, MA, USA.

Cancer Disparities, the latest in the *Advances in Cancer Research* series, provides invaluable information on the exciting and fast-moving field of cancer research. This latest volume presents a broad introduction to a spectrum of factors contributing to cancer disparities that include ancestral informative markers' role in properly identifying race based on genetic ancestry, basic biological pathways contributing to cancer disparities, epidemiological factors linked to cancer disparities, and social/behavioral factors influencing cancer disparities.

Key Features: • Describes the complex interplay of contributors to cancer disparities, ranging from the micro to macro level, and based on the social, environmental, and biological determinants of health; • Provides a range of chapters reflecting the unique expertise of the authors in these diverse topic areas.

Applications of Mass Spectrometry Imaging to Cancer, Volume 134. 1st Edition.

Edited by R. Drake, L. McDonnell.
2017, pp 312, Eur 140.30, ISBN: 978-0-12-805249-5.
Academic Press, Elsevier, Cambridge, MA, USA.

Applications of Mass Spectrometry Imaging to Cancer, the latest volume in the *Advances in Cancer Research* provides invaluable information on the exciting and fast-moving field of cancer research. This volume presents original reviews on applications of mass spectrometry imaging to cancer.

Key Features: • Provides information on cancer research; • Offers outstanding and original reviews on a range of cancer research topics; • Serves as an indispensable reference for researchers and students alike.

Ecology and Evolution of Cancer. 1st Edition.

Edited by B. Ujvari, B. Roche, F. Thomas.
2017, pp 290, Eur 82.75, ISBN: 978-0-12-804310-3.
Academic Press, Elsevier, Cambridge, MA, USA.

Ecology and Evolution of Cancer is a timely work outlining ideas that not only represent a substantial and original contribution to the fields of evolution, ecology, and cancer, but

also goes beyond by connecting the interfaces of these disciplines. This work engages the expertise of a multidisciplinary research team to collate and review the latest knowledge and developments in this exciting research field.

The evolutionary perspective of cancer has gained significant international recognition and interest, which is fully understandable given that somatic cellular selection and evolution are elegant explanations for carcinogenesis. Cancer is now generally accepted to be an evolutionary and ecological process with complex interactions between tumor cells and their environment sharing many similarities with organismal evolution. As a critical contribution to this field of research the book is important and relevant for the applications of evolutionary biology to understand the origin of cancers, to control neoplastic progression, and to prevent therapeutic failures.

Ethical Challenges in Oncology. 1st Edition.

Edited by C. Gallafher, M. Ewer.

2017, pp 348, Eur 105.75, ISBN: 978-0-12-803831-4.
Academic Press, Elsevier, Cambridge, MA, USA.

Ethical Challenges in Oncology: Patient Care, Research, Education, and Economics covers a wide variety of topics and viewpoints about ethical issues that arise in oncology throughout the full cancer care continuum. This book provides a holistic view on oncology ethics, incorporating the knowledge and expertise of authors from various departments and oncology specialties within the University of Texas MD Anderson Cancer Center.

The first section focuses on the ethical issues associated with treating cancer patients. Next, the ethical challenges associated with oncology research, including funding, regulation, subject

selection and the big picture are explored. The third section covers ethical issues associated with education in oncology as it reflects both past and future trends in developing proficient health care providers, patients and even executives. Final sections concentrate on the ethical dilemmas associated with the economic repercussions of oncology, offering thoughts on how to alleviate the ethical consequences that can arise from the global effects of cancer and cancer treatment.

Nitric Oxide (Donor/Induced) in Chemosensitization, Volume 1. 1st Edition.

Edited by B. Bonavida.

2017, pp 248, Eur 189.75, ISBN: 978-0-12-811020-1.
Academic Press, Elsevier, Cambridge, MA, USA.

Nitric Oxide as a Chemosensitizing Agent, Volume One is the first book to describe several reviews by authoritative scientists and clinicians on novel findings in the reversal of drug resistant cancers by the combination treatment of Nitric Oxide and sub toxic concentrations of chemotherapeutic drugs that have been reported in both in vitro, in vivo and preclinical models. The book describes the various underlying chemical, molecular and genetic mechanisms by which NO and NO reactive species mediate the anti-cancer activity, thus reducing the threshold of drug resistance and enabling chemo therapeutic drugs to induce their cytotoxic activity and reversal of resistance.

This book exposes scientists and clinicians to this highly beneficial topic for research investigations and pharmaceutical companies to new avenues for R&D. It is a valuable resource for cancer researchers, oncologists and members of several areas of the biomedical field who are interested in understanding how to use Nitric Oxide as a sensitizing agent for chemotherapy.