

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.

Pathology of Pediatric Gastrointestinal and Liver Disease. Second Edition.

Edited by P. Russo, E.D. Ruchelli, D.A. Piccoli.
2014, pp. 699, Eur 117.69, ISBN: 978-3-642-54052-3.
Springer-Verlag, Berlin, Germany.

Pediatric gastrointestinal and liver biopsies account for a significant portion of the specimens examined by a pathology laboratory. The increasingly widespread use of endoscopic procedures in children, the improved sophistication of medical imaging techniques, and the exciting expansion of knowledge in genetic medicine have all led to new advances and opportunities in pediatric hepatogastroenterology and pathology.

This volume provides the pediatric pathologist, the GI or general pathologist, and the pediatric gastroenterologist with the most complete and current reference on the subject. With an emphasis on clinical-pathological correlation, the book includes in-depth discussions on disorders and issues that are frequently encountered but for which up-to-date information is often not readily available, as well as infrequent disorders unique or specific to children that are not covered in standard texts. Significant revision has been undertaken since the first edition, with the inclusion of many new illustrations and electron micrographs. Among the topics covered are malabsorption and motility disorders, immunodeficiencies, including HIV, developmental malformations, food allergies, cystic diseases of the liver, hepatic tumors, and esophageal and pancreatic disorders. The book is richly illustrated, with many figures in color, and the high-quality endoscopic and radiographic images permit ready correlation with the pathologic principles under discussion.

Atlas of Procedures in Gynecologic Oncology. Third Edition.

Edited by N.R. Abu-Rustum, R.R. Barakat, D.A. Levine.
2013, pp. 450, £174.00, ISBN: 978-1-8418-4979-9.
CRC Press – Taylor & Francis Group, Boca Raton, FL, USA.

A core text from the renowned Memorial Sloan-Kettering Cancer Center, *Atlas of Procedures in Gynecologic Oncology, Third Edition* covers the latest developments in both open and minimally invasive surgery. Supplemented with full-color photographs, practical explanations, and video clips, the book provides a

detailed overview of the major gynecologic oncology procedures. With expanded topics to include more areas of interest, the book continues its tradition of emphasizing technique and surgical approach.

Topics include: Conization, surgical staging, vulvar surgery, and radical hysterectomy; Paracentesis, chest tube placement, and central venous access; Sentinel node mapping and minimally invasive lymph node dissection; Intraoperative radiation therapy, inguinofemoral lymphadenectomy, and myocutaneous flap reconstruction; Nerve-sparing approaches, laterally extended parametrectomy, and urinary diversion; Peritoneal surface malignancy surgery, including heated intraperitoneal chemotherapy application

In addition to the commonly performed procedures, the book also illustrates many advanced techniques currently in use only at specialized centers throughout the world. This comprehensive atlas presents the insight of national and international leaders in gynecologic oncology, making it an essential resource for a broad-based audience, including medical students, those beginning their surgical training, and senior practitioners.

Translation and its Regulation in Cancer Biology and Medicine.

Edited by A. Parsyan.
2014, pp. 697, Eur 181.89, ISBN: 978-94-017-9077-2.
Springer Science + Business Media, Dordrecht, The Netherlands.

This book, for the first time, comprehensively assembles and analyzes a large body of information on the role of the fundamental mechanism of the protein biosynthesis pathway translation in cancer biology. It systematically explores the function of the translation machinery and its regulation, including cell signaling, in the development, maintenance and progression of human cancer. The work presented here unveils the tremendous potential and applications of this vast and exciting branch of genetic, biochemical and molecular science in cancer medicine and drug development.

Chapters contributed by experts in the field take the reader on a journey that starts with a dissection of the translation machinery and its regulation in norm and cancer. Later chapters characterize etiological and pathogenetic roles that translation plays in specific cancer types. Various aspects of diagnostic, prognostic and therapeutic significance of the translation machinery and its control in cancer are discussed. Readers will discover the importance of the process of translation and its regulatory mechanisms in physiology and cancer biology.

The chapters and the numerous illustrations included here were contributed by expert scientists and clinicians from renowned academic and clinical establishments in Canada, the United States of America, the United Kingdom, Italy, France, Belgium, Spain, Germany and Australia.

The book conveys information and knowledge that may interest a broad range of students and scholars ranging from basic scientists to clinicians and drug developers seeking to better understand the protein synthesis and its aberrations in cancer biology and cancer medicine.

Pharmacogenomics in Drug Discovery and Development. Second Edition.*Edited by Q. Yan.*2014, pp. 715, Eur 149.79, ISBN: 978-1-4939-0955-1.
Springer Science + Business Media, New York, NY, USA.

Covering topics from individual molecules to systemic diseases, from basic concepts to advanced technologies, this volume provides a practical, state-of-the-art and integrative view of the application of pharmacogenomics in drug discovery and development. A wide range of theoretical and experimental approaches are introduced to meet the problem-solving objectives for understanding the complexity in health and diseases, from laboratory tests to computational analysis. The development of pharmacogenomics represents the evolution of biomedicine from treating the disease itself to treating the malfunction of an individual person, the "root" of diseases. With the change of focus from disease-centered to human-centric medicine, pharmacogenomics brings hope for the transformation from simple disease treatment to accurate prediction and effective prevention. Written in the successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and easily accessible, *Pharmacogenomics in Drug Discovery and Development, Second Edition* seeks to serve both professionals and novices with comprehensive resources and a holistic view for the translation of pharmacogenomics into better preventive and personalized medical care

Cell Cycle Control. Mechanisms and Protocols. Second Edition.*Edited by E. Noguchi, M.C. Gadalata.*2014, pp. 623, Eur 133.74, ISBN: 978-1-4939-0887-5.
Springer Science + Business Media, New York, NY, USA.

A collection of new reviews and protocols from leading experts in cell cycle regulation, this volume presents a comprehensive guide to recent technical and theoretical advancements in the field. Beginning with the overviews of various cell cycle regulations, this title presents the most current protocols and state-of-the-art techniques used to generate latest findings in cell cycle regulation, such as protocols to analyze cell cycle events and molecules. Written in the successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and easily accessible, *Cell Cycle Control: Mechanisms and Protocols, Second Edition* will be a valuable resource for a wide audience, ranging from the experienced cell cycle researchers looking for new approaches to the junior graduate students giving their first steps in cell cycle research.

Cytotoxic T-Cells. Methods and Protocols.*Edited by E. Ranieri.*2014, pp. 301, Eur 101.64, ISBN: 978-1-4939-1157-8.
Springer Science + Business Media, New York, NY, USA.

In this volume, leading experts in the field provide a collection of state-of-the-art methods and protocols encompassing a wide array of systems biology approaches for Cytotoxic T-Cell research. Dived into three main sections, the first part of the volume analyzes the isolation of T Cells along with their expansion and characterization according to different methods. The second part describes required techniques for intracellular signaling, monitoring of antigen T cell specific responses, CTL exosomes, and microscopy and *in vivo* imaging applied to CTL studies. The final section focuses on specialist applications of molecular methods into the study of CTL, including next generation sequencing of the Jack/stat pathway and CTL involvement in bone remodeling and transplantation. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, *Cytotoxic T-Cells: Methods and Protocols* seeks to aid scientists in the further study into concepts of laboratory methods using systems biology.

Hox Genes. Methods and Protocols.*Edited by Y. Graba, R. Rezsöházy.*2014, pp. 373, Eur 117.69, ISBN: 978-1-4939-1241-4.
Springer Science + Business Media, New York, NY, USA.

This volume explores techniques and methodologies which arose from or were successfully applied to the study of Hox genes and Hox proteins, at the intersection of experimental embryology, genetics, biochemistry, physiology, evolutionary biology, and other life sciences. This detailed volume begins with a section on discovery and functional analysis of Hox genes, and then it continues onward to discuss mode of action and biomedical applications of Hox proteins. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Expert and practical, *Hox Genes: Methods and Protocols* serves as an ideal guide to researchers striving to move forward in this dynamic and exciting area of study.

Cancer Genomics and Proteomics. Methods and Protocols. Second Edition.*Edited by N. Wajapeyee.*2014, pp. 262, Eur 101.64, ISBN: 978-1-4939-0991-9.
Springer Science + Business Media, New York, NY, USA.

Cancer Genomics and Proteomics: Methods and Protocols, Second Edition includes methods for the analyses of cancer genome and proteome that have illuminated us about the changes in cancer cells. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, this volume seeks to aid scientists in the further study into various aspects of tumor initiation and progression.

Histopathology. Methods and Protocols.

Edited by C.E. Day.

2014, pp. 416, Eur 117.69, ISBN: 978-1-4939-1049-6.

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

This volume provides a comprehensive guide to the current issues in histopathology. With chapters on organ-based approaches with specific protocols for morphologic, molecular examination, and pathological observations governing the therapeutic management of the diseases. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, *Histopathology: Methods and Protocols* seeks to be a useful reference for pathologists, pathology residents, and fellows as well as to the clinicians and scientists.

Biomimetics and Stem Cells. Methods and Protocols.

Edited by G. Vunjak, K. Turksen.

2014, pp. 187, Eur 101.64, ISBN: 978-1-4939-1331-2.

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

This volume collects a series of approaches to demonstrate the role and value of biomimetics for the better understanding of stem cell behavior and the acceleration of their application in regenerative medicine. Recent advances in tissue engineering are enabling scientists to “instruct” stem cells toward differentiating into the right phenotypes, in the right place and at the right time. Given these advances, biomimetic environments are being designed to recapitulate, *in vitro*, the combinations of factors known to guide tissue development and regeneration *in vivo* and thereby help unlock the full potential of the stem cells. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Practical and essential, *Biomimetics and Stem Cells: Methods and Protocols* focuses on the use of biomimetic systems for stem cells in order to aid in moving this vital field of study forward.

Occupational Cancers.

Edited by S. Anttila, P. Boffetta.

2014, pp. 609, Eur 149.79, ISBN: 978-1-4471-2824-3.

Springer-Verlag, London, UK.

This book is a comprehensive guide to occupational factors of malignant diseases. It discusses potentially work-related malignancies, in the context of exposure assessment, specific clinical and pathological features of occupational cancer and biomarkers of exposure and disease. Epidemiological data about risk ratios of the cancer in question are reviewed for various occupations and with exposure to specific carcinogens, carcinogenic mechanisms, host susceptibility factors (genetic and other) and other environmental and life-style risk factors. Aspects such as surveillance of workers exposed to carcinogens, and strategies for prevention of occupational cancer are also discussed.

Occupational Cancers is aimed at oncologists, pathologists, residents in training, clinical researchers, clinicians in occupational health, epidemiologists, pulmonologists, lawyers and public health officials.

Umbilical Cord Blood Banking and Transplantation.

Edited by K. Ballen.

2014, pp. 286, Eur 160.49, ISBN: 978-3-319-06443-7.

Springer International Publishing, Switzerland.

This comprehensive volume discusses the current scope of umbilical cord blood transplantation (UCBT), including recent controversies and future developments for improving clinical outcomes. Its twenty chapters introduce new applications in regenerative medicine and discuss the latest scientific, regulatory, clinical and investigational aspects of cord blood banking. Physicians from around the world provide a global collaboration which explores strategies for umbilical cord blood expansion, homing, unit selection, and combining of graft sources to improve patient outcomes. *Umbilical Cord Blood Banking and Transplantation* also reviews advances in pediatric UCBT for hematologic and non-hematologic disorders as well as immune recovery, which is critical to preventing infection. Finally, it compares UCBT with other graft sources in an attempt to understand the optimal graft source for the individual patient.

UCBT is an important option for many patients who need a transplant but do not have a family donor or a matched unrelated donor. The collective and timely information presented here is essential reading for any regenerative medicine investigator, cord blood banker, transplant laboratory scientist or clinical physician interested in improving and expanding the applications of umbilical cord blood.

Pediatric Oncology. A Comprehensive Guide. Third Edition.

Edited by P. Imbach, T. Kühne, R.J. Arceci.

2014, pp. 255, Eur 85.59, ISBN: 978-3-319-06009-5.

Springer International Publishing, Switzerland.

This is the third edition of a well-received compendium of information and guidance on the diagnosis and management of the various oncological diseases that are encountered in children and adolescents. In the new edition a chapter on Rare Tumors was added. For each disease entity, fundamental facts are provided that will be relevant for a range of professionals – hospital physicians, specialist nurses, psycho-oncologists, physiotherapists, family doctors, and pediatricians. Compared with the first edition all chapters have been updated. Throughout, rapid orientation is ensured by the clear, consistent layout and the concise, lucid style. *Pediatric Oncology: A Comprehensive Guide* is an excellent, easy-to-use reference that belongs on the shelf of every practitioner who encounters or treats malignancies in the pediatric age group.

Early Gastrointestinal Cancers II: Rectal Cancer.

Edited by F. Otto, M.P. Lutz.

2014, pp. 252, Eur 85.59, ISBN: 978-3-319-08059-8.
Springer International Publishing, Switzerland.

This *Recent Results in Cancer Research* volume provides an up-to-date overview of the multidisciplinary management of locally confined rectal cancer as well as colorectal cancer with synchronous resectable liver metastases. The contents comprise the majority of the invited contributions from the Second St. Gallen EORTC Gastrointestinal Cancer Conference, held on 6-8 March 2014 in St. Gallen, Switzerland. Written by some of the world's leading experts in the imaging, endoscopy, pathology, molecular biology, surgery, radiotherapy, and medical oncology of rectal cancer and liver metastases, the chapters offer a comprehensive view on the latest recommendations in diagnosis and multidisciplinary treatment. Clinicians involved in the care of patients with rectal cancer will find this book interesting and helpful.

Actinic Keratosis.

Edited by H.P. Soyer, T.W. Prow, G.B.E. Jemec.

2015, pp. 154, Eur 158.00, ISBN: 978-3-318-02762-4.
S. Karger AG, Basel, Switzerland.

In some respects actinic keratosis is the most common and best-known pathology in dermatology. Being such an ordinary pathology, actinic keratosis gives nevertheless insight into an extraordinary number of important biological and clinical processes. Actinic keratoses are found in significant numbers on the sun-exposed skin of Caucasians, especially those living in sun-bathed countries such as Australia, as two of the editors and a considerable number of the authors of this book do.

The authors who have contributed to this volume are researchers and clinicians discussing actinic keratosis across the whole spectrum – from epidemiology to immunology, from molecular biology to behavioral psychology – and of course pathologists and clinicians dealing with patients who experience the many manifestations of actinic keratoses. The fact that all these various aspects are considered renders this book valuable reading for scientists and clinicians alike.

Comorbidity of Mental and Physical Disorders.

Edited by N. Santorius, R.I.G. Holt, M. Maj.

2015, pp. 188, Eur 74.00, ISBN: 978-3-318-02603-0.
S. Karger AG, Basel, Switzerland.

This publication presents evidence about the magnitude and severe consequences of comorbidity of mental and physical illnesses from a personal and societal perspective. Leading experts address the huge burden of co-morbidity to the affected individual as well as the public health aspects, the costs to society and interaction with factors stemming from the context of socioeconomic developments. The authors discuss the clinical challenge of managing cardiovascular illnesses, cancer, infectious diseases and other physical illness when they occur with a range of mental and behavioral disorders, including substance abuse, eating disorders and anxiety. Also covered are the organization of health services, the training of different categories of health personnel and the multidisciplinary engagement necessary to prevent and manage comorbidity effectively.

The book is essential reading for general practitioners, internists, public health specialists, psychiatrists, cardiologists, oncologists, medical educationalists and other health care professionals.

Orbital Surgery.

Edited by R. Medel, L.M. Vásquez.

2014, pp. 116, Eur 82.00, ISBN: 978-3-318-02605-4.
S. Karger AG, Basel, Switzerland.

Orbital surgery deals with a variety of complications occurring in the eye socket comprising inflammatory diseases like thyroid-associated orbitopathy, tumors, infections, and injuries from trauma that affect eye function. In this volume, renowned European orbital surgery experts share their professional experience and expertise. Their contributions cover basic as well as more specialized up-to-date concepts that are beneficial in the diagnosis and treatment of patients with orbital disorders. The book offers a practical review of this complex and very interesting branch of ophthalmic plastic surgery for ophthalmology residents, ophthalmic plastic and orbital surgery fellows, ophthalmic plastic surgeons with a special interest in orbital surgery, and general ophthalmologists.

Adolescents and Young Adults with Hematological Disorders. Challenges and Perspectives. (Acta Haematol 132/3-4).

Edited by M.S. Tallman, P. Raanani.

2014, pp. 166, Eur 43.00, ISBN: 978-3-318-02718-1.
S. Karger AG, Basel, Switzerland.

The distinct biology of haematological disorders as well as other age-related issues in adolescent and young adult (AYA) patients deserves unique psychological and medical attention. It emphasizes the necessity for a treatment approach taking into consideration their special needs. These include fertility considerations, survivorship issues, psychological support,

adherence to treatment difficulties and other dilemmas and problems exclusive to this group of patients. AYA patients may usually better support intensive treatments and if possible should be referred to special centres and participate in clinical trials. In recent years the focus on AYA patients in oncology and hematology has increased. Still a distinct approach to these patients is an unmet need.

This special issue tries to increase awareness for this group of patients as well as to cover the wide spectrum of hematological disorders that is pertinent to AYA patients who face special therapeutic challenges. This publication is of interest for physicians dealing with AYA, especially in the field of hematology and oncology, as well as paramedical staff including nurses, psychologists, social workers and pharmacists.

Animal Cell Culture.

Edited by M. Al-Rubeai.

2015, pp. 2763, Eur 149.79, ISBN: 978-3-319-10319-8.
Springer International Publishing, Cham, Switzerland.

Animal cells are the preferred “cell factories” for the production of complex molecules and antibodies for use as prophylactics, therapeutics or diagnostics. Animal cells are required for the correct post-translational processing (including glycosylation) of biopharmaceutical protein products. They are used for the production of viral vectors for gene therapy. Major targets for this therapy include cancer, HIV, arthritis, cardiovascular and CNS diseases and cystic fibrosis. Animal cells are used as in vitro substrates in pharmacological and toxicological studies. This book is designed to serve as a comprehensive review of animal cell culture, covering the current status of both research and applications. For the student or R&D scientist or new researcher the protocols are central to the performance of cell culture work, yet a broad understanding is essential for translation of laboratory findings into the industrial production. Within the broad scope of the book, each topic is reviewed authoritatively by experts in the field to produce state-of-the-art collection of current research. A major reference volume on cell culture research and how it impacts on production of biopharmaceutical proteins worldwide, the book is essential reading for everyone working in cell culture and is a recommended volume for all biotechnology libraries.

Handbook of Anticancer Drugs from Marine Origin.

Edited by S.-K. Kim.

2015, pp. 805, Eur 266.43, ISBN: 978-3-319-07144-2.
Springer International Publishing, Cham, Switzerland.

This timely desk reference focuses on marine-derived bioactive substances which have biological, medical, and industrial applications. The medicinal value of these marine natural products are assessed and discussed. Their function as a new and important resource in novel, anticancer drug discovery research is also presented in international contributions from several research groups. For example, the potential role of Spongistatin, Apratoxin A, Eribulin mesylate, phlorotannins, fucoidan, as anticancer agents

is explained. The mechanism of action of bioactive compounds present in marine algae, bacteria, fungus, sponges, seaweeds, and other marine animals and plants are illustrated via several mechanisms. In addition, this handbook lists various compounds that are active candidates in chemoprevention and their target actions. The handbook also places into context the demand for anticancer nutraceuticals and their use as potential anti-cancer pharmaceuticals and medicines. This study of advanced and future types of natural compounds from marine sources is written to facilitate the understanding of Biotechnology and its application to marine natural product drug discovery research.

Cancer Epigenetics. Risk Assessment, Diagnosis, Treatment, and Prognosis.

Edited by M. Verma.

2015, pp. 804, Eur 149.79, ISBN: 978-1-4939-1803-4.
Springer Science + Business Media, New York, NY, USA.

This volume shares technologies that detect common epigenetic changes which are very important in the early detection, progression, and prognosis of cancer as well as the design of new therapeutic tools against cancer cells. Beginning with a bit of background on epigenetic mechanisms, *Cancer Epigenetics: Risk Assessment, Diagnosis, Treatment, and Prognosis* continues with cancer specific type epigenetic change, methods and technologies used for detecting epigenetic changes, factors that influence epigenetic changes in cancer, as well as a final section on future directions in the field. Written for the highly successful *Methods in Molecular Biology* series, chapters in this volume include the kind of detailed implementation advice that guarantees easily reproducible results.

Comprehensive and practical, this book provides the most up-to-date knowledge of epigenetics and its implication in cancer prevention by risk assessment and screening and cancer control by treatment.

Chromosomal Mutagenesis. Second Edition.

Edited by S.M. Pruetz-Miller.

2015, pp. 333, Eur 117.69, ISBN: 978-1-4939-1861-4.
Springer Science + Business Media, New York, NY, USA.

This new edition explores current and emerging mutagenesis methods focusing specifically on mammalian systems and commonly used model organisms through comprehensive coverage and detailed protocols. Since the first edition, major advances and discoveries have made chromosomal mutagenesis a widely used technique and one that is available to any molecular biology laboratory, and this collection provides detailed protocols, case-studies, and reviews from thought-leaders in the field. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and fully updated, this book aims to help speed scientific discovery and aid in the next advances in the field.

Mast Cells. Methods and Protocols. Second Edition.*Edited by M.R. Hughes, K.M. McNaghy.*

2015, pp. 540, Eur 133.74, ISBN: 978-1-4939-1567-5.

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

This volume expands upon the previous edition with current, detailed reviews that cover topics of interest to mast cell neophytes and cognoscenti alike. With new chapters on methods for the enumeration of tissue mast cells and isolation of mature mast cells and mast cell progenitors from mammalian tissues, *Danio rerio* (zebrafish) model in the study of mast cell development and function, the functions of mast cells in human health and disease and methods for the isolation, methods for the investigation of the molecular mechanisms of mast cell activation and their effector functions, assays for the detection and analysis of mast cell secretory and cell surface phenotype and, mast cell activation state, and experimental mouse models of disease that have been deemed useful for the assessment of mast cell functions in the regulation of innate and adaptive immune response in cancer, tissue fibrosis, auto-inflammation and allergic disease. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and cutting-edge, *Mast Cells: Methods and Protocols, Second Edition* provides a sampler of useful methods and techniques in the further study of mast cell biology.

Atlas of Pluripotent Stem Cells in Culture.*By L. Healy, L. Ruban.*

2015, pp. 206, Eur 139.09, ISBN: 978-1-4899-7506-5.

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

This lavishly-illustrated, authoritative atlas explores the intricate art of culturing human pluripotent stem cells. Twelve chapters – containing more than 280 color illustrations – cover a variety of topics in pluripotent stem cell culturing including mouse and human fibroblasts, human embryonic stem cells and induced pluripotent stem cells, characteristic staining patterns, and abnormal cultures, among others. *Atlas of Human Pluripotent Stem Cells in Culture* is a comprehensive collection of illustrated techniques complemented by informative and educational captions examining what good quality cells look like and how they behave in various environments. Examples of perfect cultures are compared side-by-side to less-than-perfect and unacceptable examples of human embryonic and induced pluripotent stem cell colonies. This detailed and thorough atlas is an invaluable resource for researchers, teachers, and students who are interested in or working with stem cell culturing.

Stem Cell Protocols.*Edited by I. N. Rich.*

2015, pp. 281, Eur 101.64, ISBN: 978-1-4939-1784-6.

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

This volume presents up-to-date methods that allow primary stem cells from a variety of sources to be isolated, cultured in vitro, detected and measured for specific applications. These applications range from those in basic, stem cell and veterinary research to toxicology, cellular therapy and regenerative medicine. There is a slight bias towards the blood-forming or hematopoietic system as more is known about the blood-forming or hematopoietic system than any other primary stem cell system. These unique properties and characteristics are discussed and examined, mostly at the cellular level and in detail in this book. Written in the successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, this book provides the fundamentals necessary to develop new technologies necessary for basic and clinical research in the future, and will aid professionals in finding new methodologies to provide a wider viewpoint and an even greater scope for their own research.

Perinatal Stem Cells.*Edited by A. Atala, S.V. Murphy.*

2014, pp. 373, Eur 181.89, ISBN: 978-1-4939-1117-2.

Springer Science + Business Media,

New York, NY, USA.

This comprehensive volume offers detailed insight into sources of perinatal stem cells, their biology, and their potential for disease treatment. Edited by Dr. Anthony Atala, one of the foremost experts in the field, and his Associate Editor Dr. Sean V. Murphy, this volume is a definitive work for stem cell research and its future implications.

Perinatal Stem Cells examines the research and therapeutic applications of perinatal stem cells including the treatment of renal disease, hematopoietic regeneration, cardiac disease, inflammatory disease, bone regeneration, pulmonary disease, and the treatment of spinal cord injury. Further, it discusses current progress in the manufacturing, banking and clinical translation of perinatal stem cells. Readers will gain a thorough understanding of the current pre-clinical and clinical applications of perinatal stem cells as well as the efforts to support the transition of perinatal stem cell therapies from laboratories to clinics.

Thirty-two chapters written by internationally recognized leaders in stem cell research. It is organized into four sections covering amniotic fluid stem cells, placental and placental membrane stem cells, umbilical cord stem cells, and clinical translation. This cohesive structure provides an effective framework for detailed insight into this new frontier. *Perinatal Stem Cells* is a key resource for all researchers, clinicians, and government and industry staff working in the rapidly evolving and expanding fields of stem cell research and regenerative medicine.

Orthopaedic Oncology. Primary and Metastatic Tumors of the Skeletal System.

Edited by T.D. Peabody, S. Attar.

2014, pp. 223, Eur 128.39, ISBN: 978-3-319-07322-4.
Springer International Publishing, Cham, Switzerland.

This text provides a comprehensive overview of orthopaedic oncology – the field of orthopaedic surgery that specializes in the evaluation and treatment of bone and soft tissue tumors of the musculoskeletal system. The opening chapters cover musculoskeletal imaging interpretation and the principles of musculoskeletal biopsy. Assessment and treatment of the full range of tumors are then described in a series of well-illustrated chapters. Detailed consideration is given to benign tumors, osteosarcomas, Ewing sarcomas, chondrosarcomas, metastatic bone disease of the axial and appendicular skeleton, and soft tissue sarcomas. This book will be invaluable for both orthopaedic surgeons and medical oncologists, providing a framework for understanding the fundamentals of these tumors and a sound basis for their treatment.

Breast Cancer Screening and Diagnosis. A Synopsis.

Edited by M.K. Shetty.

2015, pp. 458, Eur 160.49, ISBN: 978-1-4939-1266-7.
Springer Science + Business Media, New York, NY, USA.

This book presents the current trends and practices in breast imaging. Topics include mammographic interpretation; breast ultrasound; breast MRI; management of the symptomatic breast in young, pregnant, and lactating women; breast intervention with imaging pathological correlation; the postoperative breast; and current and emerging technologies in breast imaging. It emphasizes the importance of fostering a multidisciplinary approach in the diagnosis and treatment of breast diseases. Featuring more than 800 high-resolution images and showcasing contributions from leading authorities in the screening, diagnosis, and management of the breast cancer patient, *Breast Cancer Screening and Diagnosis* is a valuable resource for radiologists, oncologists, and surgeons.

Breast Imaging Review. A Quick Guide to Essential Diagnoses. Second Edition.

By B.A. Shah, G.M. Fundaro, S.R. Mandava.

2015, pp. 250, Eur 85.59, ISBN: 978-3-319-07790-1.
Springer International Publishing, Cham, Switzerland.

This book provides a concise review of essential radiology findings for interpreting multimodality images of the breast. It includes over 90 cases that present patient history, radiologic findings, common diagnoses, and discussion points, accompanied by over 360 high-quality digital images derived from mammography, ultrasound, MRI, and PET modalities. It also presents concise pearls covering the basics of interventional breast procedures; high-yield facts vital to the practice of breast imaging; and a quick reference to the fifth edition of the American College of Radiology Breast Imaging-Reporting and Data System (BI-RADS) Atlas for mammography, ultrasound, and breast MRI.

This work is a valuable resource for radiology residents preparing to take the core and certifying exams as well as for fellows and practicing radiologists interested in reviewing the basics of breast imaging interpretation and interventional procedures.

Microwave Ablation Treatment of Solid Tumors.

Edited by P. Liang, Y.-L. Yu, J. Yu.

2015, pp. 344, Eur 149.79, ISBN: 978-94-017-9314-8.
Springer Science + Business Media, Dordrecht, The Netherlands.

Microwave ablation is a simple, affordable, and highly precise technique. After its successful application in treating liver tumors, it is now widely used to combat renal tumors, adrenal tumors, thyroid nodes, uterine fibroids and other solid tumors. This book presents 40 successful cases of treating these diseases. A series of picture before treatment, after treatment and from different angles is provided for each kind of tumor treatment. In each chapter, step by step operative techniques and illustrations are included. This book also examines CT, NMR and ultrasonography to evaluate the effect of microwave ablation.

Circulating Nucleic Acids in Early Diagnosis, Prognosis and Treatment Monitoring. An Introduction.

Edited by P.B. Gahan.

2015, pp. 471, Eur 149.79, ISBN: 978-94-017-9167-0.
Springer Science + Business Media, Dordrecht, The Netherlands.

DNA and RNA fractions can be isolated from a variety of body fluids including whole blood, serum, plasma, urine, saliva and cerebrospinal fluid from both patients and healthy individuals. Such isolates can be exploited in the early detection of clinical disorders, stratification of patients for treatment, treatment monitoring and clinical follow-up. In addition, the use in fetal medicine allows the early detection of fetal sex, Rh factor and aneuploid disorders as well as following both fetal and premature born infant development. This volume is intended as a primer for those who are interested in entering the field of circulating nucleic acids. The areas covered in this volume include: Background and general biology of circulating nucleic acids; Methodology; Applications of circulating nucleic acids; Quality Assurance; Ethics.

Lung Cancer and Autoimmune Disorders.

Edited by M. Pokorski.

2015, pp. 71, Eur 106.99, ISBN: 978-3-319-09751-0.
Springer International Publishing, Cham, Switzerland.

Lung cancer and autoimmune diseases are complex entities in that they involve gene disturbance, gene polymorphism, and impaired gene repair mechanisms. The volume focuses on altered gene expression in tumor processes and in chronic

autoimmune disorders. The chapters discuss the biological rationale for novel disease protein markers, present relevant clinical results, and give some diagnostic and therapeutic tips.

Stress Response Pathways in Cancer. From Molecular Targets to Novel Therapeutics.

Edited by G.T. Wondrak.

2015, pp. 446, Eur 160.49, ISBN: 978-94-017-9420-6. Springer Science + Business Media, Dordrecht, The Netherlands.

It is now established that dysregulated cell stress response pathways play a critical role in tumorigenesis, and a refined mechanistic understanding of this phenomenon at the molecular level promises to open new avenues for targeted therapeutic strategies that may benefit cancer patients in the near future. Coauthored by recognized leaders in cancer research from five continents, this novel book provides a comprehensive perspective on cell stress response pathways and therapeutic opportunities. Focusing on the role of genotoxic, proteotoxic, oxidative, metabolic, and inflammatory stress in tumorigenesis, the book is essential reading for students, basic researchers, and biomedical health care professionals interested in cancer and therapeutic development.

Management of Castration Resistant Prostate Cancer.

Edited by F. Saad, M.A. Eisenberger.

2014, pp. 337, Eur 149.79, ISBN: 978-1-4939-1175-2. Springer Science + Business Media, New York, NY, USA.

This volume provides new data about the molecular biology of CRPC and a review of the definition, staging and prognostic factors that define CRPC. The book features an in-depth review of proven therapeutic options, including bone-targeted therapies, immunotherapy, chemotherapy and hormonal based therapies. Combination therapy as well as novel targeted approaches presently under investigation are also reviewed. The text provides up-to-date guidelines and algorithms for the management of CRPC based on international guidelines presently available as well as evidence-based medicine.

As a concise yet comprehensive summary of the current status of the field, *Management of Castration Resistant Prostate Cancer* serves as a very useful resource for physicians and researchers dealing with this challenging malignancy.

Handbook of Capsule Endoscopy.

Edited by Z. Li, Z. Liao, M. McAlindon.

2014, pp. 199, Eur 149.79, ISBN: 978-94-017-9228-8. Springer Science + Business Media, Dordrecht, The Netherlands.

Handbook of Capsule Endoscopy is a concise guide to the clinical diagnostic use of capsule endoscopy, a non-invasive imaging technology of the gastrointestinal tract. This book is

written by an international team with over 30 authors from 8 countries, mainly China, Britain, Israel, Italy, Germany, Korea, United Arab Emirates and the United States.

This book introduces nearly all aspects of capsule endoscopy, including the six devices currently in use, the set up procedures, indications and contraindications, its application in three organs, special use in pediatrics, safety issues and case presentations. This book is an ideal reference work for physicians and surgeons who wish to utilize this helpful imaging technology.

Melanocytic Lesions. A Case Based Approach.

Edited by M.P. Hoang, M.C. Mihm Jr.

2014, pp. 481, Eur 128.39, ISBN: 978-1-4939-0890-5. Springer Science + Business Media, New York, NY, USA.

This volume provides a concise yet comprehensive guideline on how to diagnose common as well as problematic and challenging melanocytic lesions. In the first 11 chapters, each entity is illustrated by an actual case; followed by discussion of how the diagnosis is reached, of the histologic differential diagnoses, and of diagnostic pitfalls; and ends with bulleted teaching points. Pertinent and up to date references are included at the end of each chapter. The latter chapters cover current microstaging and classification of melanoma, ancillary techniques including immunohistochemistry as well as available molecular assays and molecular targeted therapy.

Melanocytic Lesions: A Case Based Approach serves as a useful resource for pathologists, dermatologists and researchers dealing with melanocytic lesions.

Encyclopedia of Medical Immunology. Autoimmune Diseases. Volume 1 & 2.

Edited by I.R. Mackay, N.R. Rose, B. Diamond, A. Davidson.

2014, pp. 1296, Eur 426.93, ISBN: 978-0-387-84827-3. Springer Science + Business Media, New York, NY, USA.

These two volumes provide a comprehensive coverage of the current knowledge on autoimmune diseases. Topics are arranged alphabetically and each topic includes synonyms, definition, introduction, pathophysiology, clinical features, diagnosis, histopathology, treatment, miscellaneous and references. The information given is both basic and applicable in the clinic.

This encyclopedia is an essential resource for microbiologists, immunologists and infectious disease specialists.

Principles of Developmental Genetics. Second Edition.

Edited by S.A. Moody.

2015, pp. 749, Eur 121.55, ISBN: 978-0-12-405945-0. Academic Press - Elsevier Inc., London, UK.

This volume discusses the processes of normal development in embryonic and prenatal animals, including humans, providing

expert coverage of all major events in early embryogenesis and the organogenesis of specific systems, supplemented with representative clinical syndromes. All-new coverage of systems approaches to developmental genetics research, stem cell biology, new technologies and clinical disorders supports clinical researchers developing future therapies. A crystal-clear layout, exceptional full-color design, and bulleted summaries of major takeaways and their clinical relevance assist comprehension and readability of the highly complex content.

Key Features: 40% revised content deal with systems biology and stem cell biology in context of evolving technologies; Chapters are complemented with a bulleted summary for easy digestion of the major points, with a clinical summary for therapeutic application; Clinical highlights provides a bridge between basic developmental biology and clinical sciences in embryonic and prenatal syndromes.

Medical Devices and Human Engineering.

Edited by J.D. Bronzino, D.R. Peterson.

2015, pp. 700, £ 121.00, ISBN: 978-1-4398-2525-9.
CRC Press, Boca Raton, FL, USA.

This is the second volume of the fourth edition of the Biomedical Engineering Handbook presenting material from respected scientists with diverse backgrounds in biomedical sensors, medical instrumentation and devices, human performance engineering, rehabilitation engineering, and clinical engineering. More than three dozen specific topics are examined, including optical sensors, implantable cardiac pacemakers, electrosurgical devices, blood glucose monitoring, human-computer interaction design, orthopedic prosthetics, clinical engineering program indicators, and virtual instruments in health care. The material is presented in a systematic manner and has been updated to reflect the latest applications and research findings.

Innovative Brain Tumor Therapy. Nanoparticle-Based Therapeutic Strategies.

By G. Caruso, L. Merlo, M. Caffo.

2014, pp. 180, Eur 123.25, ISBN: 978-1-907568-59-6.
Woodhead Publishing, Cambridge, UK.

Despite recent advances, therapeutic efforts have not been successful establishing a definitive strategy of treatment for brain gliomas, because of the presence of the blood-brain barrier. This volume presents a synopsis of the studies on nanoparticles as ideal devices for brain tumor treatment. Their nanometric size, electrostatic charge, and lipophilic characteristics allow them to penetrate into the brain tissue freely. Promising *in-vitro* results have been reported, but remain to be validated in humans. This title focuses on the blood-brain barrier pathophysiology in brain tumors, and the possibilities of overcoming this with nanoparticle-based systems. Relevant patents of nanoparticles used as drug delivery carriers are also reported, as well as future scenarios in nanoparticles and stem cells.

Key features include: The latest researchers in the field; Future scenarios on the treatment of brain tumours; Written by highly respected experts in the field; A presentation of future scenarios in nanoparticles and stem cells.

Electroporation-Based Therapies for Cancer. From Basics to Clinical Applications.

Edited by R. Sundararajan.

2014, pp. 306, Eur 150.00, ISBN: 978-1-9075-68-15-2.
Woodhead Publishing, Cambridge, UK.

There is a critical need for safe, effective, and affordable alternative treatment modalities, especially for inoperable, recurring, and chemo-resistant cancers, that do not respond well to current treatment regimen. An electrical-pulse-mediated, enhanced drug delivery technique known as electroporation is one way to effectively treat these patients.

Electroporation-Based Therapies for Cancer reviews electroporation-based clinical studies in hospitals of various cancer treatments, including melanomas, head and neck cancers, and chest wall breast carcinomas. This technique is especially suitable for low- and middle-income countries, where lack of infrastructure and resources leads to cancer diagnoses at late stages. This quick, safe, effective, economical, out-patient-based technique is a boon to these patients for palliative and other care with enhanced quality of life. This book features discussions by interdisciplinary authors-including practicing oncological surgeons, medical professionals, and academic and other researchers of the basics and clinical medical applications of electroporation.

Key features include: Novel and recent clinical applications of electrochemotherapy for various cancers; An extensive study of a number of cell lines, including human breast cancer, lung cancer and leukemia using both reversible and irreversible electroporation techniques; *In vitro* study of delivery of various commonly prescribed breast cancer chemo and hormone drugs, such as Doxorubicin; Paclitaxel and Tamoxifen.

Targeted Therapies in Oncology. Second Edition.

Edited by G. Giaccone, J.-C. Soria.

2014, pp. 480, £ 107.00, ISBN: 978-1-84214-545-6.
CRC Press - Taylor & Francis Group, Boca Raton, FL, USA.

Since the last edition of this book, major advances have been made in our understanding of key pathways that control tumor progression. This has led to the development of new anticancer agents that have the ability to block the activity of proteins involved in neoplastic cell development and proliferation. *Targeted Therapies in Oncology, Second Edition* provides a concise timely panorama of existing targeted therapies and progress into future anticancer treatments.

These therapies notably include: Targeted agents of immune checkpoints; Signal-transduction inhibitors; Antiangiogenic agents; Vascular-disrupting agents; Apoptosis modulators; Stem cell inhibitors; Tumor profiling for drug development.

This book emphasizes the biology behind this new class of drugs as well as the clinical achievements obtained.

Lung Cancer Therapy, Annual 7.

Edited by R.A. Stahel.

2012, pp. 176, £ 53.99, ISBN: 978-1841-84865-5.
Informa Healthcare, London, UK.

As oncology research and practice in lung cancer continues to develop rapidly this volume briefs the oncology community regarding current developments by reviewing recent literature, with emphasis on therapeutic aspects, and offers an update of the impact that this information will have on the day-to-day management of lung cancer patients. This invaluable tool provides essential data to the oncologist and remains a trusted source of information on lung cancer.

Thoroughly updated for its seventh edition by international experts, numerous new chapters include: Oncogenic driver mutations; First line therapy of advanced non-small cell lung cancer without activating EGFR mutation; Second line therapy of non-small cell lung cancer; Adjunct and neoadjuvant therapy of non-small cell lung cancer; Advances in surgery of lung cancer; Advances in radiotherapy of lung cancer; Mesothelioma; Thymic tumors.

Mathematical Modelling of Chromosome Replication and Replicative Stress.

By J. Karschau.

2015, pp. 76, Eur 106.99, ISBN: 978-3-319-0880-0.
Springer International Publishing, Cham, Switzerland.

DNA replication is arguably the most crucial process at work in living cells. It is the mechanism by which organisms pass their genetic information from one generation to the next, and life on Earth would be unthinkable without it. Despite the discovery of DNA structure in the 1950s, the mechanism of its replication remains rather elusive.

This work makes important contributions to this line of research. In particular, it addresses two key questions in the area of DNA replication: which evolutionary forces drive the positioning of replication origins in the chromosome; and how is the spatial organization of replication factories achieved inside the nucleus of a cell?

A cross-disciplinary approach uniting physics and biology is at the heart of this research. Along with experimental support, statistical physics theory produces optimal origin positions and provides a model for replication fork assembly in yeast. Advances made here can potentially further our understanding of disease mechanisms such as the abnormal replication in cancer.

Handbook of Statistics in Clinical Oncology. Third Edition.

Edited by J. Crowley, A. Hoering.

2012, pp. 635, £ 81.00, ISBN: 978-1-4398-6200-1.
CRC Press - Taylor & Francis Group, Boca Raton, FL, USA.

New cancer therapies are often based on cytostatic or targeted agents, which pose new challenges in the design and analysis of all phases of trials. The literature on adaptive trial designs and early stopping has been exploding. Inclusion of high-dimensional data and imaging techniques have become common practice, and statistical methods on how to analyse such data have been refined in this area. A compilation of statistical topics relevant to these new advances in cancer research, this third edition of *Handbook of Statistics in Clinical Oncology* focuses on the design and analysis of oncology clinical trials and translational research.

Addressing the many challenges that have arisen since the publication of its predecessor, this third edition covers the newest developments involved in the design and analysis of cancer clinical trials, incorporating updates to all four parts:

- Phase I trials: Updated recommendations regarding the standard 3 + 3 and continual reassessment approaches, along with new chapters on phase 0 trials and phase I trial design for targeted agents.
- Phase II trials: Updates to current experience in single-arm and randomized phase II trial designs. New chapters include phase II designs with multiple strata and phase II/III designs.
- Phase III trials: Many new chapters include interim analyses and early stopping considerations, phase III trial designs for targeted agents and for testing the ability of markers, adaptive trial designs, cure rate survival models, statistical methods of imaging, as well as a thorough review of software for the design and analysis of clinical trials.
- Exploratory and high-dimensional data analyses: All chapters in this part have been thoroughly updated since the last edition. New chapters address methods for analyzing SNP data and for developing a score based on gene expression data. In addition, chapters on risk calculators and forensic bioinformatics have been added.

Advances in Intravital Microscopy. From Basic to Clinical Research.

Edited by R. Weigert.

2014, pp. 424, Eur 160.49, ISBN: 978-94-017-9360-5.
Springer Science + Business Media, Dordrecht, The Netherlands.

This is the first book entirely dedicated to Intravital Microscopy. It provides the reader with a broad overview of the main applications of Intravital Microscopy in various areas of the biomedical field. The book contains accurate descriptions of the state of the art methodologies used to image various organs at different level of resolution, ranging from whole tissue down to sub-cellular structures. Moreover, it is an extremely valuable guide to scientists that want to adopt this powerful technique and do not have experience with animal models and microscopy.

High-Resolution Extreme Ultraviolet Microscopy. Imaging of Artificial and Biological Specimen with Laser-Driven Ultrafast XUV Sources.

By *M.W. Zürich.*

2015, pp. 127, Eur 106.99, ISBN: 978-3-319-12387-5.
Springer International Publishing, Cham, Switzerland.

This book provides a comprehensive overview of the technique of frequency conversion of ultrafast lasers towards the extreme ultraviolet (XUV) regime, starting with the frequency conversion scheme and its technical implementation as well as general considerations of diffraction-based imaging at nanoscopic spatial resolutions. The last few centuries have seen continual advances in optical microscopy, driven by the demand to image ever-smaller objects. In recent years, frequency conversion of ultrafast lasers towards the extreme ultraviolet (XUV) regime has significantly enhanced the achievable resolution thanks to shorter wavelengths. The absence of high-magnification optics in the XUV regime is a major issue associated with this technique and is tackled with direct measurement and reconstruction of coherent diffraction patterns. The experimental application of this technique in terms of digital in-line holography and coherent-diffraction imaging is demonstrated on artificial and biological specimens. The book introduces a novel, award-winning cancer-cell classification scheme based on biological imaging. Finally, it presents a newly developed technique for generating structured illumination in the XUV regime and demonstrates its usability for super-resolution imaging.

Mathematical Models of Tumor-Immune System Dynamics.

Edited by *A. Eladdadi, P. Kim, D. Mallet.*

2014, pp. 275, Eur 106.99, ISBN: 978-1-4939-1792-1.
Springer Science + Business Media, New York, NY, USA.

This collection of papers offers a broad synopsis of state-of-the-art mathematical methods used in modeling the interaction between tumors and the immune system. These papers were presented at the four-day workshop on Mathematical Models of Tumor-Immune System Dynamics held in Sydney, Australia from January 7th to January 10th, 2013. The workshop brought together applied mathematicians, biologists, and clinicians actively working in the field of cancer immunology to share their current research and to increase awareness of the innovative mathematical tools that are applicable to the growing field of cancer immunology.

Recent progress in cancer immunology and advances in immunotherapy suggest that the immune system plays a fundamental role in host defense against tumors and could be utilized to prevent or cure cancer. Although theoretical and experimental studies of tumor-immune system dynamics have a long history, there are still many unanswered questions about the mechanisms that govern the interaction between the immune system and a growing tumor. The multidimensional nature of these complex interactions requires a cross-disciplinary approach to capture more realistic dynamics of the essential biology. The papers presented in this volume explore these issues and the results will be of interest to graduate students and researchers in a variety of fields within mathematical and biological sciences.

The Conquest of Cancer. A Distant Goal.

By *G. Faguet.*

2015, pp. 249, Eur 64.19, ISBN: 978-94-017-9164-9.
Springer Science + Business Media, Dordrecht, The Netherlands.

Based on 30 years of clinical and research experience, backed by a careful assessment of four decades of published data, Dr. Faguet documented in *The War on Cancer* (Springer 2005), early advances in cancer treatment and patient survival that soon stalled. Ten years later, and after an exhaustive analysis of evidence-based data available through 2013 that incorporates 755 references, he reveals the root causes of the stagnation in cancer control, including the role played by major stakeholders, and advocates a coordinated national effort, akin to the Apollo program, to unveil the causes of cancer and their mastery. In the interim, Dr. Faguet urges caregivers to manage patients according to the four ethical principles of beneficence, non-maleficence, respect for patients' autonomy, and justice especially at the end of life.

Cancer-Causing Viruses and Their Inhibitors.

Edited by *S.P. Gupta.*

2014, pp. 479, £ 95.00, ISBN: 978-1-4665-8977-3.
CRC Press - Taylor & Francis Group, Boca Raton, FL, USA.

Cancer-causing viruses, also called oncoviruses, play a key role in the development of certain cancers. They contribute to genetic changes that disrupt the cell cycle machinery, interfering with functions such as cell growth. *Cancer-Causing Viruses and Their Inhibitors* presents a plethora of research from internationally reputed contributors who discuss different types of oncoviruses, their mechanisms of invasion and growth, and their life cycles.

The book begins with an overview of the oncoviruses discovered to date and includes a brief description of their structures, genotypes, replication, and mechanisms of infection leading to cancers. It then explores several of these viruses in detail, including: Human T-cell leukemia virus type 1 (HTLV-1); Hepatitis C virus (HCV); Epstein-Barr virus (EBV); Human papilloma virus (HPV); Human herpes virus 8 (HHV-8)/Kaposi's sarcoma-associated herpes virus (KSHV); Human immunodeficiency virus (HIV/AIDS); Oncolytic viruses.

This book is an essential reference for those working in virology, oncology, and biotechnology. The discoveries presented will enable researchers and clinicians to optimize both historical and current approaches to anti-viral therapies.

Primer on Prostate Cancer.

By *N. James.*

2014, pp. 50, Eur 42.79, ISBN: 978-1-907673-81-8.
Springer Healthcare Ltd., London, UK.

This concise pocket book will review prostate cancer's epidemiology, clinical features, diagnosis, and medical management (discussing surgery, radiotherapy, hormone therapy, chemotherapy, bone-targeting therapy, and more). Busy healthcare

professionals will benefit from this text, which will not only cover the basics of prostate cancer, but discuss up-to-date national and international treatment guidelines and upcoming therapies.

Communicating with Cancer Patients.

By J.F. Smyth.

2014, pp. 91, £ 19.99, ISBN: 978-1-4822-2678-2.

CRC Press - Taylor & Francis Group, Boca Raton, FL, USA.

This book was written primarily for doctors training in oncology but hopefully to be of use also for any healthcare professional involved in explaining the complexities of cancer to patients in their care. The individual chapters address different aspects of the challenges we all face in helping anxious patients and their families to understand what is happening to them, what choices there are, and what they may expect at diagnosis, during treatment and beyond. Where the 'art of medicine' is concerned every doctor must develop their own style of communication. What is offered here is intended to help trainees to develop and hone their own skills in this most challenging but rewarding practice of medicine.

Understanding Liver Cancer. A Tale of Two Diseases.

By B.I. Carr.

2014, pp. 50, Eur 42.79, ISBN: 978-1-910315-01-9.

Springer Healthcare Ltd., London, UK.

This is a concise and up-to-date review, which discusses diagnosis, management, patient care, current and emerging therapies, and useful resources that clinicians can provide to their patients. Busy healthcare professionals who want a quick review of liver cancer as well as a summary of current therapies will benefit from this succinct text.

Lipid Nanoparticles: Production, Characterization and Stability.

By R. Shah, D. Eldridge, E. Palombo, I. Harding.

2014, pp. 97, Eur 53.49, ISBN: 978-3-319-10710-3.

Springer, Cham, Switzerland.

This work provides the current knowledge and practices in formulation, characterization and drug delivery of lipid nanoparticles. A comprehensive description of the current understanding of synthesis, characterization, stability optimization and drug incorporation of solid lipid nanoparticles is provided. Nanoparticles have attracted great interest over the past few decades with almost exponential growth in their

research and application. This work appeals to students of colloid science, practitioners of research into drug delivery and academics alike.

Gynecologic Oncology. A Pocketbook.

Edited by R.N. Eskander, R. E. Bristow.

2015, pp. 427, Eur 160.49, ISBN: 978-1-4939-1975-8.

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

This book is a collaborative effort that combines the perspectives of expert faculty and fellows in training in the field of gynecologic oncology. Not only is it incredibly portable, but the format in which the information is presented (bullet point, outline, tables and diagrams) allows for rapid access to valuable information and is unique amongst existing texts. This distinct pocketbook will provide the information needed to care for patients with gynecologic malignancies appropriately and will promote critical thinking throughout treatment

Nanoparticles in Lung Cancer Therapy – Recent Trends.

By A. Bandyopadhyay, T. Das, S. Yeasmin.

2015, pp. 65, Eur 53.49, ISBN: 978-81-322-2174-6.

Springer, New Delhi, India.

This brief provides an insight into the present scenario of the role of nanotechnology in the diagnosis and treatment of lung cancer at an early stage. Researchers have shown that nanoparticles may act as a powerful anti cancer tool, especially for lung cancer. Unique surface properties and easy surface functionalization of nanoparticles enable early detection, diagnosis, imaging and treatment of lung cancer. The authors have elaborately presented how various nanoparticles (natural, semi synthetic and synthetic) may help in the treatment of lung cancer. They have also detailed works of various scientists who succeeded in developing effective nanoparticles and enabled very specific lung cancer therapy without any undesirable side effects and minimized death.

Connexins: The Gap Junction Proteins.

By M.U. Hussain.

2014, pp. 93, Eur 53.49, ISBN: 978-81-322-1918-7.

Springer, New Delhi, India.

Gap-junction proteins, connexins, are important cellular entities that regulate various facets of cellular physiology. This book provides a basic overview about various aspects of connexin family. It will be useful to a broad audience that includes under- and post-graduate students, researchers and clinicians.