

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.

Nuclear Oncology.

Edited by H.W. Strauss, G. Mariani, D. Volterrani, S.M. Larson.
2013, pp. 877, Eur 149.75, ISBN: 978-0-387-48893-6.
Springer Science + Business Media, New York, NY, USA.

This is a comprehensive textbook covering the increasing role of radionuclide-based technologies in the management of oncologic patients, with disease-oriented chapters giving a detailed overview of current indications and developments. Topics covered include instrumentation, physics, radiobiology, radioguided surgery, and radionuclide therapy, which is discussed with useful separate topics describing the importance of organ function assessment after cancer therapies in the heart, lung, kidney and the gastro-intestinal tract. Additionally, significant aspects of cancer biology and molecular imaging are discussed, as well as appropriate tracers for both single- and positron-emitting radionuclides. Individual chapters in the book focus on the most common cancers occurring in adults and children, detailing radionuclide procedures within an integrated framework identifying the information required for effective treatment of specific tumors. These clinical chapters provide a description of the epidemiology, etiology, histologic and pathophysiologic classification, prognosis, treatment, and most common outcome for each type of cancer.

With contributions from a group of internationally-distinguished practitioners, *Nuclear Oncology: Pathophysiology and Clinical Applications* serves as a valuable compendium of knowledge for nuclear medicine physicians and radiologists and other clinicians involved in the care and management of cancer patients.

Patient Surveillance After Cancer Treatment.

Edited by F.E. Johnson, Y. Maehara, G.P. Browman, J.A. Margenthaler, R.A. Audisio, J.F. Thompson, D.Y. Thomson, C.C. Earle, K.S. Virgo.
2013, pp. 538, Eur 192.55, ISBN: 978-1-60327-968-0.
Humana Press, Springer Science + Business Media, New York, NY, USA.

Patient Surveillance After Cancer Treatment covers the history of cancer patient surveillance after curative-intent treatment, the rationale, the methodologies used in the past and at present, the methodologies that will probably emerge in the future, the costs of surveillance, the definitions of various terms used in the field,

and how those who are interested in the topic can get more information about it from the internet. The secondary focus of the book is to publicize the need for well-designed, adequately powered randomized clinical trials comparing two (or more) surveillance strategies for each type of cancer. The audience includes all oncologists, cancer researchers, medical economists and policy makers in government and insurance companies, and finally, interested patients.

This book is part of the *Current Clinical Oncology* series, which provides cutting-edge knowledge of cancer diagnosis, management, and treatment. World renowned experts share their insights in all the major fields of clinical oncology. From the fundamentals of pathophysiology to the latest developments in experimental and novel therapies, *Current Clinical Oncology* is an indispensable resource for today's practicing oncologist.

In Vivo Cellular Imaging Using Fluorescent Proteins. Methods and Protocols.

Edited by R.M. Hoffman.
2012, pp. 269, Eur 101.60, ISBN: 978-1-61779-796-5.
Springer Science + Business Media, New York, NY, USA.

The discovery and genetic engineering of fluorescent proteins has revolutionized cell biology. What was previously invisible in the cell often can be made visible with the use of fluorescent proteins. *In Vivo Cellular Imaging Using Fluorescent Proteins: Methods and Protocols* presents state-of-the-art research that has contributed to the fluorescent protein revolution to visualize biological processes in the live animal. This volume covers an array of topics from the employment of the chick CAM model using fluorescent proteins and other fluorescent probes, to intravital fluorescent imaging, as well as 3-dimensional imaging, and design instructions on how to create new and improved far-red and infrared fluorescent proteins, to name a few. Written in the successful *Methods in Molecular Biology*TM 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, *In Vivo Cellular Imaging Using Fluorescent Proteins: Methods and Protocols* is the first volume in the new field of in vivo cell biology and it serves both professionals and novices with its well-honed methodologies.

Pancreatic Cancer. Methods and Protocols. Second Edition.

Edited by G.H. Su.
2013, pp. 389, Eur 117.65, ISBN: 978-1-62703-286-5.
Springer Science + Business Media, New York, NY, USA.

Pancreatic ductal adenocarcinoma is the fifth leading cause of cancer death in the USA. Pancreatic cancer develops as a result of the accumulation of genetic and epigenetic alterations in cancer-causing genes such as oncogenes and tumor-suppressor genes. The second edition of *Pancreatic Cancer: Methods and Protocols* provides a broad range of protocols for molecular, cellular,

pathological, and statistical analyses of sporadic and familial pancreatic cancer. It covers topics from in-vitro cell cultures to in-vivo mouse models, DNA to protein manipulation, and genetic and epigenetic analyses to treatment development. Written in the highly successful *Methods in Molecular Biology*TM 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, written by highly renowned investigators with expertise in pancreatic cancer, *Pancreatic Cancer: Methods and Protocols, Second Edition* is an invaluable source of proven protocols to those who are interested in joining the fight against pancreatic cancer.

Lymphoma. Methods and Protocols.

Edited by R. Küppers.

2013, pp. 315, Eur 117.65, ISBN: 978-1-62703-268-1.
Springer Science + Business Media, New York, NY, USA.

Lymphomas are lymphoid malignancies derived from B or T lymphocytes, and their study has been and still is paradigmatic for many aspects of cancer research. *Lymphoma: Methods and Protocols* presents and discusses key methods that are used in lymphoma research, partly specific for lymphoma research but often adaptable to the study of other cancers. By covering a broad variety of methods used in lymphoma research, this book will be of interest not only for hematologists, hematopathologists, and immunologists but also for scientists interested in other fields of cancer research as well as human genetics. Written in the highly successful *Methods in Molecular Biology*TM 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.

Versatile and cutting-edge, *Lymphoma: Methods and Protocols* serves researchers studying human physiology with the ultimate goal of understanding and controlling these often terrible diseases.

Endocrine Tumor Syndromes and Their Genetics.

Edited by C.A. Stratakis.

2013, pp. 187, Eur 157.00, ISBN: 978-3-318-02330-5.
S. Karger AG, Basel, Switzerland.

In these times, a book should aspire to present the most significant advances in the field, reflect the themes of the moment, and provide a useful compendium for future reference. This book accomplishes all three objectives by discussing the changing world of modern genetics in endocrine tumors and its impact on clinical practice. Clinicians have to incorporate modern genetics and systems biology in their daily practice. Educators and researchers have to introduce molecular pathways and their genetic variability in their teaching, as well as understanding of classic physiology and pathophysiology.

Taking these aspects into account, the chapters in this book cover both the classic multiple endocrine neoplasia (MEN) syndromes, as well as newly described ones, such as Carney triad

and Carney-Stratakis syndrome. Furthermore, the genetics of paragangliomas as well as thyroid, parathyroid, and pituitary tumors are examined.

Outlining the latest research and its obvious implications for our understanding the genetics of endocrine tumor formation and molecular biology of cancer and their potential therapeutic implications, this book is not only useful for researchers but even more so for practicing clinicians, such as internists, endocrinologists, oncologists, pediatricians, surgeons, pathologists, geneticists, and genetic counselors.

Penile Cancer. Diagnosis and Treatment.

Edited by P.E. Spiess.

2013, pp. 162, Eur 149.79, ISBN: 978-1-62703-366-4.
Springer Science + Business Media, New York, NY, USA.

This volume provides a comprehensive overview of penile cancer for medical and surgical urologists oncologists, and other healthcare professionals. This book highlights many of the significant advances made in this field, which include a discussion of penile-sparing surgical and radiotherapeutic approaches to select primary penile tumors typically of lower stage and grade as well as advances in our understanding of the epidemiology, risk factors, and pathophysiology of penile cancer. The book also addresses many of the novel diagnostic and therapeutic surgical approaches to inguinal lymph nodes, including dynamic sentinel node biopsy and minimally invasive surgery. The authors also discuss many of the clinical pearls and surgical considerations that can optimize treatment outcomes while minimizing the morbidity and inherent risk of complications in patients undergoing an open inguinal lymph node dissection. Lastly, the volume presents a discussion of the paradigm shift in the management of bulky inguinal lymph node metastases from penile cancer consisting of neoadjuvant systemic chemotherapy followed by consolidative surgical resection, which can offer an improved likelihood of survival as shown in a recent phase 3 clinical trial.

Penile Cancer: Diagnosis and Treatment will serve as a resource for clinicians and researchers seeking an overview on the current state of knowledge in penile cancer. The editor has gathered leading worldwide experts in this field who have written a very practical and useful textbook for clinicians in an attempt to optimize patient outcomes and promote the pivotal scientific advances made in recent years.

Molecular Microbiology Laboratory. A Writing Intensive Course. Second Edition.

Edited by W. Ream, B. Geller, J. Trempey, K. Field.

2013, pp. 259, Eur 53.95, ISBN: 978-0-12-397044-2.
Academic Press, Elsevier, Oxford, UK.

This book is designed to teach essential principles and techniques of molecular biology and microbial ecology to upper-level undergraduates majoring in the life sciences and to develop students' scientific writing skills. A detailed lab preparation manual for instructors and teaching assistants accompanies the lab book and

contains a general discussion of scientific writing and critical reading as well as detailed instructions for preparation and peer review of lab reports. Each experimental unit is accompanied by a number of additional writing exercises based upon primary journal articles.

Physics in Biology and Medicine. Fourth Edition.

Edited by P. Davidovits.

2013, pp. 331, Eur 50.95, ISBN: 978-0-12-386513-7.

Academic Press, Elsevier, London, UK.

This volume covers topics in physics as they apply to the life sciences, specifically medicine, physiology, nursing and other applied health fields. The text provides clear descriptions of medical devices and techniques such as MRI, CAT scan and cochlear implant. It discusses biological systems that can be analyzed quantitatively and shows how advances in the life sciences have been aided by the knowledge of physical or engineering analysis techniques.

Androgen-Responsive Genes in Prostate Cancer. Regulation, Function and Clinical Applications.

Edited by Z. Wang.

2013, pp. 348, Eur 160.45, ISBN: 978-1-4614-6181-4.

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

Recent studies demonstrated a key role of the androgen receptor in the development of castration-recurrent or -resistant prostate cancer (CRPC), which is deadly and in urgent need of more effective therapies. Understanding the functions of androgen-responsive genes and their regulation and deregulation in prostate cancer progression may lead to new approaches to prevent and treat prostate cancer patients.

This book provides an up-to-date review of the overall androgen-responsive gene expression program and the regulation, function, and clinical relevance of both protein coding and non-coding androgen-responsive genes. Experts in the field of androgen action and prostate cancer research discussed the importance of DNA elements, chromatin structure, cellular signaling, and cell-cell interactions in the regulation of androgen-responsive genes in the context of prostate cancer progression, including the development of CRPC. This book is intended for individuals interested in cancer endocrinology and medical and healthcare professionals involved in prostate cancer research.

Vesicle Trafficking in Cancer.

Edited by Y. Yarden, G. Tarcic.

2013, pp. 393, Eur 160.49, ISBN: 978-1-4614-6528-7.

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

Endocytosis and vesicular trafficking determine the landscape of the cell's exterior, namely the density of surface molecules, such as receptors for growth factors and cytokines, adhesion molecules like integrins and cadherins, and a plethora of nutrient carriers. Hence, endocytosis is involved in signal transduction, cell adhesion and

migration, as well as metabolism. To exploit these fundamental processes, malignancies subtly and multiply manipulate the endocytosis and the subsequent trafficking of protein cargoes. This is achieved by simultaneously altering the cytoskeleton, vesicle budding, cargo sorting and intracellular degradation. By highlighting the underlying molecular processes and concentrating on specific examples, this book reviews the recent emergence of derailed endocytosis and vesicular trafficking as a landmark of cancer. In-depth understanding of this common feature of tumors might lead the way to drug-induced strategies, able to rectify intracellular trafficking in cancer.

Autophagy in Cancer.

Edited by H.-G. Wang.

2013, pp. 261, Eur 149.79, ISBN: 978-1-4614-6560-7.

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

This book covers the latest advances in the field of autophagy and cancer from the basics of the molecular machinery for autophagy induction and regulation up to current areas of interest, including modulation of autophagy and drug discovery for cancer prevention and treatment. The reader will be initially introduced to the historical context of autophagy, followed by a summary of the key players in autophagy, a discussion on the origin of autophagosomes, and an overview of signal transduction regulation of autophagy. The next chapters deal with the complex relationship between autophagy and tumorigenesis through in-depth discussions of how autophagy influences cell survival, apoptosis, inflammation, immunity, tumor microenvironment, metabolic stress, DNA damage, and genomic instability. The remaining chapters discuss how autophagy affects cancer cell response to therapy and how to best modulate autophagy for therapeutic benefit - what to target and how to target. We hope that this monograph will be an invaluable reference source for professionals, students, postdoctoral fellows, and senior scientists working in the fields of autophagy and cancer.

Molecular Mechanisms of Tumor Cell Resistance to Chemotherapy. Targeted Therapies to Reverse Resistance.

Edited by B. Bonavida.

2013, pp. 260, Eur 149.79, ISBN: 978-1-4614-7069-4.

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

Patients with various cancers are treated with conventional chemotherapeutic drugs and the majority responds well to such therapies. However, there is a subset of patients who does not respond initially and another subset who no longer responds to further treatments. Clearly, in those two subsets of patients, the cancer cells exhibit mechanisms of resistance. One of the main challenges facing us to date is to develop new therapies to treat patients with the resistant tumors. The development of new effective therapies will be dependent on delineating the biochemical, molecular, and genetic mechanisms that regulate tumor cell resistance. Such mechanisms have revealed gene products that directly regulate resistance and are targets for

therapy. Of interest, several FDA-approved drugs were able to overcome drug resistance and have been successfully used clinically. They have been used as monotherapy or synergized with other therapies for the treatment of resistant tumors.

This volume constitutes a total of twelve selective reviews by pioneer scientists in the field of cancer drug resistance. Specific mechanisms in drug resistance are reviewed and novel approaches are being proposed for therapeutic interventions. This volume is of general interest to scientists, clinicians, health care providers, and students.

Merkel Cell Carcinoma.

Edited by M. Alam, J.S. Bordeaux, S.S. Yu.

2013, pp. 190, Eur 149.79, ISBN: 978-1-4614-6607-9.

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

Merkel Cell Carcinoma is one of the first comprehensive, single-source clinical texts on the subject. Although not as common as melanoma, Merkel cell carcinoma is not rare – and it is both more deadly than melanoma and increasing at an epidemic rate. The book is clinical in focus and emphasizes treatment of this poorly understood cancer. Contributing authors include dermatologists, surgical oncologists, radiation oncologists, and medical oncologists from the US and around the world.

Bone Sarcoma.

Edited by P.P. Lin, S. Patel.

2013, pp. 270, Eur 117.65, ISBN: 978-1-4614-5193-8.

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

Bone Sarcoma is a succinct volume within the M.D. Anderson Cancer Care Series that summarizes the key elements of different specialties as they pertain to these cancers. It is a vital resource for physicians working with these uncommon yet fascinating bone sarcomas and uses a multidisciplinary team approach that is essential to maximizing a patient's chances of a successful outcome. Written for physicians who have an interest in how the entire treatment process works and how their efforts are intertwined with those of their colleagues, Bone Sarcoma covers topics such as diagnostic techniques, treatment modalities, reconstruction and function, and a more globally oriented chapter geared towards algorithms for perioperative management and follow-up of patients.

Designed for the busy practitioner, the esteemed M.D. Anderson Cancer Care Series offers an in-depth view of the current standard of care at M. D. Anderson, without extensive literature review. Each chapter ends with an up-to-date list of suggested readings and a list of "key practice points" highlighting the most important principles presented. These books offer a clear picture of how M. D. Anderson is successfully treating patients today.

The Hippo Signaling Pathway and Cancer.

Edited by M. Oren, Y. Aylon.

2013, pp. 354, Eur 160.45, ISBN: 978-1-4614-6219-4.

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

The Hippo signaling pathway is rapidly gaining recognition as an important player in organ size control and tumorigenesis. This volume presents virtually all aspects of tumor biology because members of the Hippo Pathway have been associated with numerous well-established cell signaling pathways, just to name a few; Rho, Wnt, TGFbeta and p53. Hippo signaling is not solely involved in regulating "classic" tumor characteristics such as cell proliferation, survival and growth, but is also diversely involved in cell-autonomous and non-cell-autonomous differentiation, migration and organ size control.

With the multitude of signaling events mediated by the Hippo pathway and the vastly different functions that it plays, it is evident that these tumor suppressors are unique governors of cellular homeostasis. This timely volume gathers wide-ranging and burgeoning information on the Hippo pathway and its role in cancer into an accessible format of a single book. With the multitude of signaling events mediated by the Hippo pathway and the vastly different functions that it plays, it is evident that these tumor suppressors are unique governors of cellular homeostasis. This timely volume gathers wide-ranging and burgeoning information on the Hippo pathway and its role in cancer into an accessible format of a single book.

Regenerative Engineering.

Edited by G.T. Laurencin, Y. Khan.

2013, pp. 417, £63.99, ISBN: 9781439814123.

CRC Press, Boca Raton, FL, USA.

Distinct from tissue engineering, which focuses primarily on the repair of tissues, regenerative engineering focuses on the regeneration of tissues: creating living, functional tissue that has the ability to replace organs that are dysfunctional. The challenge of working in an area like regenerative engineering lies, in part, in the breadth of information required to truly appreciate and begin to think about this field. Regenerative Engineering introduces the field through the presentation of fundamental concepts of cell biology, stem cell science, materials science, and cell-material interactions. It also focuses on specific organ and tissue types and presents up-to-date examples of ongoing work, often in the context of a specific clinical need.

Regenerative medicine focuses on the biological aspects of tissue regeneration via stem cells, factors, and cytokines, while tissue engineering focuses on the integration of materials science and life sciences. This book integrates these two areas, presenting each concept in the framework of regenerative engineering.

Combining science, engineering and medicine, Regenerative Engineering incorporates all of the essential elements needed for further advancement in this field. The book explores the development and examination of vital organs and tissue types and addresses concerns as it relates to the regenerative engineering of various organ tissues, vascular tissues, bone, ligament, neural tissue, and the interfaces between tissues. Chapter 1 provides a brief overview of many other tissue types that are currently the topic of regeneration and repair.

Morphine and Metastasis.

Edited by M.-O. Parat.

2013, pp. 146, Eur 106.95, ISBN: 978-94-007-5677-9.

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

The possibility that morphine and other opioids may modulate tumour growth and metastasis has been researched for many years. The recent past has seen multiple clinical studies attempting to document whether limiting the perioperative use of morphine is beneficial for cancer surgery patients. Furthermore, a lot of exciting new data has been generated in vitro, but also in preclinical and clinical studies, that indirectly shed light on the effect of opioids on cancer.

This book combines chapters written by qualified experts around the world whose research encompasses the effect of morphine or other opioids on tumour growth and metastasis. This includes clinicians, researchers working on animal models and studying the effect of morphine on tumours, and most importantly the mechanism for this effect, and lastly cell biologists. Current investigations and cross talk between basic science and clinical trials will refine our understanding of the multiple levels of actions of morphine and other opioids on tumour growth and metastasis, and result in improved guidelines for patient care.

This book will be of interest to clinicians, especially those dealing with cancer patients and their pain management, as well as students, teachers and scientists in the fields of anaesthesiology, oncology, tumour biology, immunology, opioid pharmacology.

Diet and Cancer: From Laboratory Models to Clinical Application.

By I. Zusman.

2013, pp. 376, ISBN: 978-81-7895-583-4.

Transword Research Network, Kerala, India.

The purpose of this book is to discuss new experimental and statistical data reflecting the role of diet in the struggle against cancer.

Contents include 38 separate topics divided into five chapters: 1. Effects of diets in experimental cancer; 2. Some mechanisms governing cancer-preventive effects of diets; 3. Some mechanisms of cancer-preventive effects of diets: Biochemical aspects; 4. Tumor-preventive transplacental effects of diet; 5. Role of diets in human cancer.

This volume will be of interest to medical oncologists, dieticians and physicians involved in the treatment of cancer patients.

Transforming the Culture of Dying.

By G. Clark.

2013, pp. 284, £35.00, ISBN: 978-0-19-931161-3.

Oxford University Press, Oxford, UK.

Over a period of almost 10 years, the work of the Project on Death in America (PDIA) played a formative role in the advancement of end of life care in the United States. The project concerned itself with adults and children, and with interests crossing boundaries

between the clinical disciplines, the social sciences, arts and humanities. PDIA engaged with the problems of resources in poor communities and marginalized groups and settings, and it attempted to foster collaboration across a range of sectors and organizations.

This book presents a comprehensive account of PDIA activity and developments and will serve as an excellent resource for medical doctors and social workers.

The Hastings Center Guidelines for Decisions on Life-Sustaining Treatment and Care Near the End of Life. 2nd Edition.

By N. Berlinger, B. Jennings, S.M. Wolf.

2013, pp. 240, £27.50, ISBN: 978-0-19-997455-9.

Oxford University Press, Oxford, UK.

This major new work updates and significantly expands The Hastings Center's 1987 Guidelines on the Termination of Life-Sustaining Treatment and Care of the Dying. Like its predecessor, this second edition will shape the ethical and legal framework for decision-making on treatment and end-of-life care in the United States.

This groundbreaking expansion of the Guidelines incorporates research and innovation in clinical care, law, and policy. It is written for physicians, nurses, and other health care professionals and is structured for easy reference in difficult clinical situations. It supports the work of clinical ethicists, ethics committee members, health lawyers, clinical educators, scholars, and policymakers. It includes extensive practical recommendations.

Palliative Aspects of Emergency Care.

Edited by P.L. DeSandre, T.E. Quest.

2013, pp. 134, £22.50, ISBN: 978-0-19-989561-8.

Oxford University Press, Oxford, UK.

The process of patients with advanced illnesses entering the emergency department is fraught with uncertainty for both patients and medical providers. Yet, there is a lack of definitive and accessible resources which provide immediate guidance for the care of these patients. Palliative Aspects of Emergency Care is a practical guide designed to fill this void. From the paramedic struggling with difficult and/or conflicting information in the home through the palliative care specialist trying to interface effectively with the emergency department, this user-friendly handbook offers practical help from experts in the interdependent fields of Emergency Medicine and Hospice and Palliative Medicine.

This evidenced-based book covers the prognostication and assessment of relevant, advanced-illness clinical problems, the management of symptoms, and the physical and spiritual treatment of palliative patients in the emergency department through their last hours of living. Also included are chapters focusing on hospice care, communication techniques, and the legal and ethical issues of palliative care in the emergency department. This guide is a must-have resource for clinicians looking for concise, point-of-care information, and for hospital administrators working to address palliative care needs in emergency departments through best practice recommendations.

Grief and Bereavement in the Adult Palliative Care Setting.

By E.A. Strada.

2013, pp. 118, £25.00, ISBN: 978-0-19-976892-9.
Oxford University Press, Oxford, UK.

For patients and family caregivers the journey through illness and transitions of care is characterized by a series of progressive physical and emotional losses. Grief reactions represent the natural response to those losses. Grief is defined by a constellation of physical, cognitive, emotional and spiritual manifestations, varying in length and severity. While grief reactions are common and expected responses to loss, they have the potential to cause significant suffering. And, while grief is not a disease, it can develop into a pathological process warranting specialized treatment. Additionally, some aspects of grief overlap with the symptoms of clinical depression and anxiety, making diagnosis difficult.

Grief and Bereavement in the Adult Palliative Care Setting provides practical, evidence-based, and clinically effective approaches to understanding the multifaceted nature of grief and bereavement in patients with advanced illness and their caregivers. This handbook is an ideal tool for palliative care providers of various disciplines who provide direct clinical services to patients and family members. It assists clinicians in recognizing and identifying grief reactions as unique expressions of patients and caregivers' history and psychological functioning. Primary care physicians who provide care to patients and families will also find this practical assessment and treatment guide helpful. They will learn how to best support bereaved patients and caregivers when grief is uncomplicated, and when to choose more active interventions that may include appropriate referrals to mental health professionals.

A Picture Is Worth a Thousand Tables. Graphics in Life Sciences.

Edited by A. Krause, M. O'Connell.

2012, pp. 429, Eur 160.45, ISBN: 978-1-4614-5328-4.
Springer Science + Business Media, New York, NY, USA.

Graphics promote scientific insight, better business and more effective communication. However, in the Life Sciences, drug development processes are still largely reliant on tables and listings.

This book sets out to change this situation. The primary aim of the volume is to provide a rich collection of examples showing graphical review and reporting across the Life Sciences industry. Medical researchers and investigators will find many applications that can be applied to their own work. The code for many of the graphs is available on the companion web page, so that analysts can implement them directly. Statisticians and modelers will find graphics that support the exploratory analysis and the model building process as well as effective communication of results. Pharmacologists and pharmacokineticists will find a variety of graph types to display longitudinal data and explore its information.

A variety of therapy areas are covered, including diabetes, hypertension, oncology, pulmonology and neurology. ECG and TQT data analysis is treated in detail and concepts for efficacy and safety data analysis are shown along with examples of graphs, a combination of graphics and tables. Graphics for individual patient data, meta analysis, biomarker and genetic data, health economics, safety and pharmacovigilance, development operations and sales and marketing data, complete the diversity of applications.

The book contains contributions from about 40 eminent researchers in the field, including a foreword by Professor Stuart Pocock.

A Tale of Two Fractals.

Edited by A.A. Kirillov.

2013, pp. 138, Eur 32.09, ISBN: 978-0-8176-8381-8.
Birkhäuser, Springer Science + Business Media, New York, NY, USA.

Since Benoit Mandelbrot's pioneering work in the late 1970s, scores of research articles and books have been published on the topic of fractals. Despite the volume of literature in the field, the general level of theoretical understanding has remained low; most work is aimed either at too mainstream an audience to achieve any depth or at too specialized a community to achieve widespread use. Written by celebrated mathematician and educator A.A. Kirillov, *A Tale of Two Fractals* helps bridge this gap, providing an original treatment of fractals that is at once accessible to beginners and sufficiently rigorous for serious mathematicians. The work is designed to give young, non-specialist mathematicians a solid foundation in the theory of fractals.

As its title suggests, this book focuses primarily on two fractals: the Sierpiński gasket and the Apollonian gasket. Over the course of the book, they are developed and discussed in various contexts. Along with fundamental definitions and properties, some of the key concepts and approaches covered include: the Laplace operator; harmonic functions; generalized numerical systems; Descartes' theorem; rational parameterizations; group action on fractals; generalization to multiple dimensions

In addition to its explicit goal of providing undergraduate and graduate students with a sound foundation in fractal theory, *A Tale of Two Fractals* serves to enhance their overall understanding of mathematics by drawing on a wide variety of techniques from other subfields. Furthermore, by virtue of the subject matter, it provides a unique opportunity for students to develop their capacity for recognizing patterns and formulating interesting questions. It is therefore a valuable text not only for any course on fractals or hyperbolic geometry, but also for any survey course with an aim of honing creative problem solving skills