

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.

Computational Epigenetics and Diseases, Volume 9.

Edited by L.K. Wei.

2019, pp 450, EUR 118.03, ISBN: 9780128145135.
Academic Press, Elsevier, Cambridge, MA, USA.

Computational Epigenetics and Diseases, written by leading scientists in this evolving field, provides a comprehensive and cutting-edge knowledge of computational epigenetics in human diseases. In particular, the major computational tools, databases, and strategies for computational epigenetics analysis, for example, DNA methylation, histone modifications, microRNA, noncoding RNA, and ceRNA, are summarized, in the context of human diseases. This book discusses bioinformatics methods for epigenetic analysis specifically applied to human conditions such as aging, atherosclerosis, diabetes mellitus, schizophrenia, bipolar disorder, Alzheimer disease, Parkinson disease, liver and autoimmune disorders, and reproductive and respiratory diseases. Additionally, different organ cancers, such as breast, lung, and colon, are discussed.

Key Features: Provides a comprehensive and cutting-edge knowledge of computational epigenetics in human diseases; Summarizes the major computational tools, databases, and strategies for computational epigenetics analysis, such as DNA methylation, histone modifications, microRNA, noncoding RNA, and ceRNA; Covers the major milestones and future directions of computational epigenetics in various kinds of human diseases such as aging, atherosclerosis, diabetes, heart disease, neurological disorders, cancers, blood disorders, liver diseases, reproductive diseases, respiratory diseases, autoimmune diseases, human imprinting disorders, and infectious diseases.

Gap Junction Structure and Chemical Regulation. 1st Edition.

Edited by C. Peracchia.

2019, pp 226 EUR 139.66, ISBN: 9780128161500.
Academic Press, Elsevier, Cambridge, MA, USA.

Gap Junction Structure and Chemical Regulation: Direct Calmodulin Role in Cell-to-Cell Channel Gating describes and discusses the findings of major studies conducted during the past century on the structure and chemical regulation of direct cell-

to-cell communication via gap junction channels. Chapters bring together important findings on direct cell communication, from its history, to its structure and regulation. These channels are essential for normal organ function, and mutations in their protein (connexin) cause various diseases. The book is useful for established investigators who need a review on the field and young investigators who need a thorough resource for study and comprehension.

Key Features: Contains comprehensive, historical coverage on direct cell-to-cell communication; Provides detailed coverage of gap junction channel structure and regulation, with extensive coverage of the direct role of calmodulin in channel gating; Delivers a thorough description of models proposed for the chemical gating of gap junction channels.

Introductory Immunology. 2nd Edition.

Edited by J. Actor.

2019, pp 194, EUR 78.34, ISBN: 9780128165720.
Academic Press, Elsevier, Cambridge, MA, USA.

Introductory Immunology: Basic Concepts for Interdisciplinary Applications, Second Edition is a completely updated, revised and expanded resource on the immune system as a primary defense for the maintenance of health and homeostasis. The book highlights the components of the human immune system and how they work together to confer protection against pathogenic invaders. It also creates an understanding of the basis for clinical tests and immune therapeutics and their importance in identifying and treating disease states. This updated edition will strengthen the foundation required to understand the placement of immune function within clinical practice, thus allowing a basic platform to define therapeutic treatments.

Key Features: Creates appreciation for the components of the human immune system that work together to confer lifelong protection; Provides core knowledge in immunology to build a foundation to explore mechanisms involved in clinical disease; Breaks down all immunology concepts into manageable, logically digestible building blocks; Geared toward readers without medical, biochemical or cellular expertise; Includes a glossary that provides functional definitions of complex terms.

Neural Stem Cells and Adult Neurogenesis. 1st Edition.

Edited by A. Mobley.

2019, pp 241, EUR 117.13, ISBN: 9780128110140.
Academic Press, Elsevier, Cambridge, MA, USA.

Neural Stem Cells and Adult Neurogenesis provides graduate students and neuroscientists with a basic understanding of what neural stem cells are and the cell types they produce. This early graduate level reference describes their physiology and potential for medicine and provides students with fundamental stem cell information. An overview of stem cell sources in the human body and a brief mention of relevant diseases provide context for the

value of this knowledge. The book also includes chapters on induced pluripotent stem cells (iPSCs), the methods used to obtain them, and a review of the ethical challenges associated with stem cell research.

For each region, the book provides a description of its neurogenic niche, cellular and molecular biology, and information on the neurons' contribution to normal and diseased brain function. The level of information is appropriate for early graduate students, introducing technology and molecular biology in an accessible format.

Key Features: Provides a basic understanding of what a stem cell is, the different types, and their potential in health and research; Details adult neurogenesis and its role in behavior, stroke and disease; Includes walkthrough and technology boxes that illustrate experimental concepts, new approaches and techniques.

Breaking Tolerance to Pancreatic Cancer Unresponsiveness to Chemotherapy, Volume 5. 1st Edition.

Edited by G.P. Nagaraju.

2019, pp 223, EUR 139.66, ISBN: 9780128176610.

Academic Press, Elsevier, Cambridge, MA, USA.

Breaking Tolerance to Pancreatic Cancer Unresponsiveness to Chemotherapy edited by Dr. Nagaraju, PhD., DSc. focuses on overriding the resistance from chemotherapeutic drugs with a broader range of treatment options. It particularly focuses on stroma, tumor microenvironment, stem cells, stellate cells, transcription factors, growth factors, and important signaling pathways. This volume discusses topics such as pancreatic cancer biology, current therapeutic options, EMT, chemotherapy resistance mechanisms, and genetic manipulations and natural products to enhance the sensitivity of pancreatic cancer to chemotherapy. Additionally, it discusses small targeted molecules and pancreatic cancer trials, and nanotechnology-based drug delivery.

Breaking Tolerance to Pancreatic Cancer Unresponsiveness to Chemotherapy is a valuable source for researchers and advanced students in cancer and oncology as well as clinicians and medical students who are interested in learning more about ways to break pancreatic cancer resistance to chemotherapy.

Key Features: Modulates the biologic properties of stroma in pancreatic cancer by targeting the several chemotherapy resistance mechanisms to impede their malignant property by introducing new strategies and drugs; Provides information about on-going research as well as clinical data on pancreatic cancer and detailed descriptions about therapeutic options for easy understanding; Utilizes full color figures to help the understanding of the content and tables for easy comparison of information as well as quick access to it.

Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors. 1st Edition.

Edited by K. Chaichana, A. Quinones-Hinojosa.

2019, pp 506, EUR 144.16, ISBN: 9780128117835.

Academic Press, Elsevier, Cambridge, MA, USA.

Comprehensive Overview of Modern Surgical Approaches to Intrinsic Brain Tumors addresses limitations in the scientific literature by focusing primarily on surgical approaches to various intrinsic neoplasms using diagrams and step-by-step instructions. It provides the advantages and disadvantages of these approaches, controversies, and technical considerations and discusses topics such as anatomy, pathology and animal models, imaging, open brain tumor approaches and minimally invasive approaches. Additionally, it discusses controversial treatments and the pros and cons of each. This book is a valuable source for medical students, neurosurgeons and any healthcare provider who has an interest in brain tumors and techniques to treat them.

Key Features: Provides a comprehensive review of different approaches, explaining them step-by-step; Includes diagrams that show surgical approaches; Presents the advantages and disadvantages of each approach to aid in decision-making.

Anorectal Disorders. 1st Edition.

Edited by E. Coss-Adame, J. Troche.

2019, pp 294, EUR 118.03, ISBN: 9780128153468.

Academic Press, Elsevier, Cambridge, MA, USA.

Anorectal Disorders: Diagnosis and Nonsurgical Treatments incorporates the most recent major advances in the understanding of anal and rectal anatomy to provide clinical evidence of care for those suffering from anorectal disorders. By condensing basic and practical aspects in the knowledge of anorectal disorders, this book provides a comprehensive review of the anatomy and physiology of the anorectal region. It includes new technology that expands and modifies current perceptions about the functional anatomy of the anorectal region and ultimately impacts how we conceive muscle and nerve structures functioning together to maintain fecal continence and properly execute the process of defecation.

Perfect for medical researchers, gastroenterologists, general practitioners, internal medicine doctors and general surgeons, this title will provide diagnosis and treatment options for all patients suffering from anorectal disorders.

Key Features: Identifies frequent, but not well understood, anorectal disorders, including ulcers, constipation, dyssynergic defecation, tumors and malformations; Condenses the basic and practical aspects of anorectal disorders for better treatment of patients; Includes clinical cases that summarize chapter content in a clinical context.