

## 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.

### **Progress in Molecular Biology and Translational Science. Brain Imaging, Volume 165. 1st Edition.**

*Edited by J.T. Becker, A.D. Cohen.*

2019, pp 441, EUR 109.92, ISBN: 9780128183618.

Academic Press, Cambridge, MA, USA.

*Brain Imaging, Volume 164*, the latest release in the *Progress in Molecular Biology and Translational Science* series, provides informative monographs on a variety of research topics related to neuroimaging in aging and neurodegenerative disease. Topics covered in this new release include FTD spectrum, Cerebrovascular disease, HIV, Huntington's Disease, Development of brain PET imaging agents, and Disclosure of imaging biomarker results.

*Key Features:* Includes comprehensive coverage of molecular biology; Presents ample use of tables, diagrams, schemata and color figures to enhance the reader's ability to rapidly grasp the information provided; Contains contributions from renowned experts in the field.

### **Epidermal Stem Cell Niche, Volume 3. 1st Edition.**

*Edited by M. Perez-Moreno.*

2019, pp 230, EUR 116.23, ISBN: 9780128184462.

Academic Press, Cambridge, MA, USA.

*Advances in Stem Cells and Their Niches, Volume Three*, comprises a compilation of the latest findings on our understanding of skin biology. It extends the current knowledge on skin stem cells and provides in-depth discussions on their unique settings, niches and properties. Chapters in this new release include: The biophysical regulation of epidermal fate and function, Epidermal stem cell lineages, Hair shaft progenitors that create a niche for hair pigmentation, Dermal papilla cells control of hair follicle growth and pigmentation, Molecular mechanisms regulating the hair follicle niche, Dermal fibroblasts and their niches and interactions with epidermal stem cells.

*Key Features:* Contains chapters written by international leaders in skin biology; Provides a unique compilation of the latest findings and technologies in basic and translational skin biology; Expands current knowledge on the regulation of skin stem cells as isolated entities, focusing on how skin stem cells and lineages of stem cells function in a coordinated manner; Provides illustrations and comprehensive analyses of each subject.

### **Advances in Immunology, Volume 142. 1st Edition.**

*Edited by F. Alt.*

2019, pp 148, EUR 124.34, ISBN: 9780128177044.

Academic Press, Cambridge, MA, USA.

*Advances in Immunology, Volume 142*, the latest release in a long-established and highly respected publication, presents current developments and comprehensive reviews in immunology. Articles address the wide range of topics that comprise immunology, with this release focusing on the advancing area of the mechanisms involved in the evolution of HIV-1 neutralizing antibodies.

*Key Features:* Presents current developments and comprehensive reviews in immunology; Provides the latest in a longstanding, respected serial on the subject matter; Focuses on recent advances in the advancing area of the mechanisms involved in the evolution of HIV-1 neutralizing antibodies.

### **Advances in Clinical Chemistry, Volume 91. 1st Edition.**

*Edited by G. Makowski.*

2019, pp 219, EUR 132.45, ISBN: 9780128174715.

Academic Press, Cambridge, MA, USA.

*Advances in Clinical Chemistry, Volume 91*, the latest release in this internationally acclaimed series, contains chapters authored by world-renowned clinical laboratory scientists, physicians and research scientists. The serial discusses the latest and most up-to-date technologies related to the field of clinical chemistry, providing the benchmark for novel analytical approaches in the clinical laboratory.

*Key Features:* Provides the most up-to-date technologies in clinical chemistry and clinical laboratory science; Authored by world renowned clinical laboratory scientists, physicians and research scientists; Presents the international benchmark for novel analytical approaches in the clinical laboratory.

### **Cellular Nutrient Utilization and Cancer, Volume 347. 1st Edition.**

*Edited by D. Montrose, L. Galluzzi.*

2019, pp 232, EUR 154.07, ISBN: 9780128184066.

Academic Press, Cambridge, MA, USA.

*Cellular Nutrient Utilization and Cancer, Volume 347* in the *International Review of Cell and Molecular Biology (IRCMB)* series maintains a high standard by publishing invited articles on timely topics that are authored by prominent cell and molecular biologists. Sections in this new release include Sulfur metabolism and cancer, The interplay of genetic drivers of cancer and cellular nutrients to support oncogenesis, The diet's impact on nutrient availability for cancer cells, Nutrients as determinants of redox balance in cancer, The role of dietary lipids in colon cancer pathogenesis, The influence of diet on nutrient utilization by cancer cells and immune-surveillance, and more.

*Key Features:* Publishes invited review articles on selected topics as authored by established and active cell and molecular biologists whose work is drawn from international sources; Offers a wide range of perspectives on specific subjects.

**DNA Sensors and Inflammasomes, Volume 625. 1st Edition.**

*Edited by J. Sohn.*

2019, pp 368, EUR 127.94, ISBN: 9780128183595.

Academic Press, Cambridge, MA, USA.

*DNA Sensors and Inflammasomes, Volume 625*, the latest release in the *Methods in Enzymology* series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. New sections in this release include Phosphorylation and dimerization of STING and IRF3, cGAS enzymology, Synthesis and identification of immuno-stimulatory CDNs, Tracking cGAS activity/ cGAMP formation using SPR/NMR, Using an enzyme coupled assay to track cGAS activity under steady states, Tracking the polymerization of DNA sensors, inflammasome receptors, and downstream signaling partners using FRET, NLRC4 structure, Tracking TREX1 activity, DNA association and dissociation kinetics of PARP1, and more.

*Key Features:* Provides the authority and expertise of leading contributors from an international board of authors; Presents the latest release in the *Methods in Enzymology* series; Includes the latest information on DNA sensors and inflammasomes.

**Purification and Characterization of Secondary Metabolites. 1st Edition.**

*Edited by T. Crowley.*

2019, pp 214, EUR 94.61, ISBN: 9780128139424.

Academic Press, Cambridge, MA, USA.

*Purification and Characterization of Secondary Metabolites: A Laboratory Manual for Analytical and Structural Biochemistry* provides students with working knowledge of the fundamental and advanced techniques of experimental biochemistry. Sections provide an overview of the microbiological and biochemical methods typically used for the purification of metabolites and discuss the biological significance of secondary metabolites secreted by three diverse species of bacteria. Additionally, this lab manual covers the theory and practice of the most commonly-used techniques of analytical biochemistry, UV-vis and IR spectrophotometry, high-performance liquid chromatography, mass spectrometry, X-ray crystallography and nuclear magnetic resonance, and how to evaluate and effectively use scientific data.

Instructors will find this book useful because of the modular nature of the lab exercises included. Written in a logical, easy-to-understand manner, this book is an indispensable resource for both students and instructors.

*Key Features:* Offers project lab formats for students that closely simulate original research projects; Provides instructional guidance for students to design their own experiments; Presents advanced analytical techniques; Includes access to a website with additional resources for instructors.