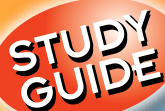
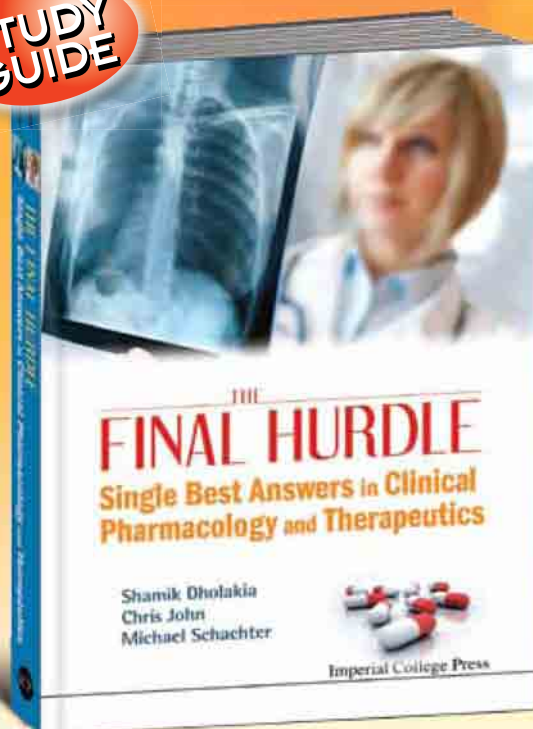


New and Notable titles in Pharmacology 2011


 STUDY
GUIDE


THE FINAL HURDLE

Single Best Answers in Clinical Pharmacology and Therapeutics
by **Shamik Dholakia, Chris John & Michael Schachter** (*Imperial College London, UK*)

A comprehensive learning tool to aid preparation for undergraduate pharmacology examinations, this study guide focuses on reinforcing core concepts, improving exam technique and developing confidence in answering the style of questions used in the examinations.

Its aim is to provide an aid to learning and self-assessment for undergraduates in medicine and other health professionals. The importance of ensuring patient safety and the quality of patient care is becoming more important nationally and internationally, after a period when it was perhaps somewhat neglected in some academic centres. Though this study guide is not a substitute for a comprehensive text on the subject, it will be a useful aid for revision.

Contents: Revision Guide; Questions; Answers and Explanations.

Readership: Final year medical students, undergraduates in medicine and other health professions.

248pp	Feb 2011
978-1-84816-743-8	US\$64 £42
978-1-84816-744-5(pbk)	US\$30 £20

DISCOVERIES IN PHARMACOLOGICAL SCIENCES

by **Popat N Patil** (*The Ohio State University, USA*)

The book will serve to enhance the cumulative scientific knowledge of the investigators in drug discovery. It contains a well integrated wealth of information in drug sciences and pharmacotherapeutics. The time, place and the human side of investigators, their portraits with biographical sketches are presented.

The reading of *Discoveries in Pharmacological Sciences* will satisfy the intellectual curiosity of investigators. Understanding of *Discoveries in Pharmacological Sciences* will provide a platform to judge the importance of the personalized medicine of tomorrow. Scattered classical information about drug sciences is effectively condensed here. The development of the scientific thoughts and creativity of the investigators through the ages in drug research are presented admirably.

Readership: Professionals (pharmacologists, chemists, physicians, science teachers); students (BS, MS, PharmD, PhD); general public with an interest in life sciences.

610pp	Jun 2011
978-981-4355-07-0	US\$128 £83
978-981-4355-08-7(ebook)	US\$166

Molecular Medicine and Medicinal Chemistry - Vol. 4

ANTIBODY DRUG DISCOVERY

edited by **Clive R Wood** (*Bayer Schering Pharma, Germany*)

Antibody-based therapeutics contribute to an ever-increasing share of successful pharmaceuticals. The objective of this volume is to provide a series of guides to those evaluating and preparing to enter particular areas within the field. The chapters set into context the significance of key developments and important considerations for selecting different approaches, such as antibody humanization, isotype selection, lead candidate selection criteria and protein production. Despite the wide use of antibodies as tools, antibody drug discovery technologies are isolated to a limited number of centers of excellence in industry and academia. All contributors are experts in their fields and have played pivotal roles in the creation of these technologies.

Readership: Researchers in the field of antibody technology.

450pp **Aug 2011**
978-1-84816-628-8 **US\$147** **£91**
978-1-84816-629-5(ebook) **US\$191**

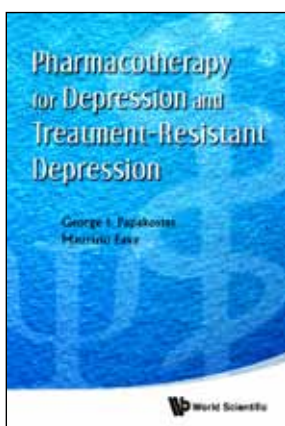
PHARMACOTHERAPY FOR DEPRESSION AND TREATMENT-RESISTANT DEPRESSION

by **George I Papakostas & Maurizio Fava**
(Massachusetts General Hospital, USA & Harvard Medical School, USA)

This unique ground-breaking work, authored by renowned Harvard-based researchers G I Papakostas and M Fava, represents, by far, the most comprehensive compilation to date of medical studies and reports involving the use of antidepressants for the treatment of major depressive disorder, one of the most prevalent and devastating medical illnesses afflicting mankind today.

Readership: Psychiatrists, primary-care clinicians, psychologists, graduate students, investigators and scientists involved in antidepressant drug investigations.

728pp **Apr 2010**
978-981-4287-58-6 **US\$167** **£115**
978-981-4287-59-3(ebook) **US\$217**



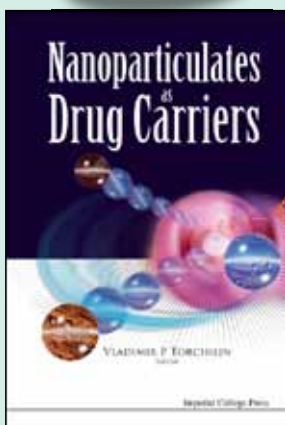
NANOPARTICULATES AS DRUG CARRIERS

edited by **Vladimir P Torchilin**
(Northeastern University, USA)

Written by key experts in the field of nanomedicine, this book provides a broad introduction to the important field of nanomedicine and application of nanotechnology for drug delivery. It covers up-to-date information regarding various nanoparticulate drug delivery systems, describes the various opportunities for the application of nanoparticulate drug carriers in different areas of clinical medicine, and analyzes already available information on their clinical applications.

Readership: Graduate students, academics in nanomedicine, clinicians, pharmacologists, pharmacists, bioengineers, researchers in biotechnology and diagnostic imaging.

756pp **Sep 2006**
978-1-86094-630-1 **US\$273** **£188**
978-1-86094-907-4(ebook) **US\$355**



DELIVERY OF PROTEIN AND PEPTIDE DRUGS IN CANCER

edited by **Vladimir P Torchilin** (*Northeastern University, USA*)

Written by leading scientists in the field of delivery of protein and peptide drugs to tumors for cancer therapy, this important book provides a broad introduction to the field, with discussion by key experts on the physiological barriers for protein and peptide drugs in tumors, and the different approaches to stabilization of these drugs in biological surroundings, as well as their enhanced delivery to tumors and inside cancer cells.

This book can be used as an advanced textbook by graduate students and young scientists and clinicians at the early stages of their career. It is also suitable for non-experts from related areas of chemistry, biochemistry, molecular biology, physiology, experimental and clinical oncology and pharmaceutical sciences, who are interested in general problems of drug delivery and drug targeting as well as in a more specialized topics of using protein and peptide drugs for tumor therapy.

Readership: Graduate students & academics from cancer therapy, protein & peptide drugs, drug delivery, & tumor targeting areas; non-experts interested in drug delivery to tumors.

392pp **Apr 2006**
978-1-86094-627-1 **US\$161** **£111**
978-1-86094-803-9(ebook) **US\$209**



MEDICINAL PLANTS OF THE ASIA-PACIFIC

Drugs for the Future?

by **Christophe Wiart**
(University of Malaya, Malaysia)

"It will be an invaluable resource for doctors, pharmacists, plant scientists, pharmaceutical companies and conservationists in the region, and to all who are interested in medicinal plants."

Professor Nina L Etkin
University of Hawaii, USA

"Medicinal plants of Asia-Pacific: Drugs for the Future?" offers researchers a strong foundation from which to advance the field of ethnopharmacology."

Professor Elizabeth M Williamson
University of Reading, UK

Readership: Students, academics and researchers in pharmacology, toxicology, biotechnology, natural product research, medicinal chemistry, oncology, microbiology, alternative medicine and food sciences; pharmaceutical companies.

756pp **Jan 2006**
978-981-256-341-5 **US\$202** **£139**
978-981-270-726-0(ebook) **US\$263**



Other Titles in the Molecular Medicine and Medicinal Chemistry Series

Textbook

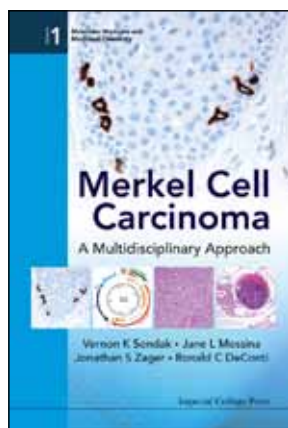
Molecular Medicine and Medicinal Chemistry - Vol. 2

MERKEL CELL CARCINOMA

A Multidisciplinary Approach

by **Vernon K Sondak, Jane L Messina, Jonathan S Zager & Ronald C DeConti** (*H Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA*)

Merkel cell carcinoma is an uncommon but not rare aggressive cutaneous malignancy. It has many similarities to melanoma, particularly in the need for aggressive multidisciplinary treatment, but far less is known about this disease by most practicing physicians. This book summarizes all of the existing knowledge about Merkel cell carcinoma and provides a much-needed perspective on future opportunities for diagnostic and therapeutic advances. It offers practical "how to" advice on diagnosis, treatment and follow-up, and also insight into how to establish a multidisciplinary Merkel cell carcinoma clinic. In addition, it will serve as a unique resource for trainees (medical students, residents and fellows) as well as for Merkel cell carcinoma patients and their advocates and caregivers. There is currently no such textbook, even an outdated one, covering this topic.



Readership: Academics; professionals; medical students; residents in radiation oncology, pathology, radiology, family practice/internal medicine, head & neck surgery, dermatology, general surgery, plastic surgery; fellows in medical oncology, surgical oncology, dermatopathology, dermatologic surgery.

376pp **Oct 2010**
978-1-84816-312-6 **US\$120** **£74**

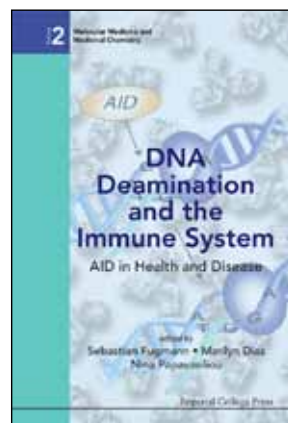
Molecular Medicine and Medicinal Chemistry - Vol. 3

DNA DEAMINATION AND THE IMMUNE SYSTEM

AID in Health and Disease

edited by **Sebastian Fugmann, Marilyn Diaz** (*National Institute of Health, USA*) & **Nina Papavasiliou** (*Rockefeller University, USA*)

This book covers the current understanding of the role of activation-induced cytidine deaminase (AID) in the generation of antibody response to antigenic challenge. Since the discovery of AID, and the genetic demonstration of its role in somatic hypermutation and class-switch recombination of antibody genes, much has been learned about the biochemistry of this enzyme. Being leading experts in their respective fields, the contributors of this highly valued title summarize current research in the field of AID and put forth hypotheses in order to provide a platform for future experiments.



Readership: Advanced undergraduates, postgraduates, academics and researchers interested in immunology, genomic stability, DNA repair and nucleic acid biochemistry.

232pp **Oct 2010**
978-1-84816-592-2 **US\$78** **£54**
978-1-84816-593-9(ebook) **US\$101**

Molecular Medicine and Medicinal Chemistry - Vol. 6

MOLECULAR EXPLOITATION OF APOPTOSIS PATHWAYS IN PROSTATE CANCERby **Natasha Kyprianou** (*University of Kentucky, USA*)

This book focuses on the functional significance of targeting apoptosis for the treatment of prostate cancer. New concepts on the challenges relating to the development of resistance by androgen-independent tumors are introduced, in terms of the contribution of anoikis and cross-talk of androgens with key growth factor signaling pathways. This volume also provides insightful discussion on the exploitation of the apoptotic and angiogenic synergism towards complete eradication of prostate tumors. Last but not least, it includes reflections on the drug development challenge based on analysis of data from existing clinical trials.

Contents: The Prostate Gland Dynamics; Apoptosis Signaling Pathways: Defined Routes to Eliminate Cancer Cells; Androgen Receptor-Mediated Apoptosis: Significance in Development of Hormone Refractory Prostate Cancer; Anoikis in Prostate Cancer Metastasis; Novel Molecular Therapeutics for Targeting of Androgen-Independent Prostate Cancer; Summary and Future Directions.

Readership: Practising clinicians including urologists, pathologists, medical oncologists and scientists with an interest in cancer, especially prostate cancer.

400pp **Sep 2011**
978-1-84816-449-9 **US\$138** **£95**
978-1-84816-450-5(ebook) **US\$179**

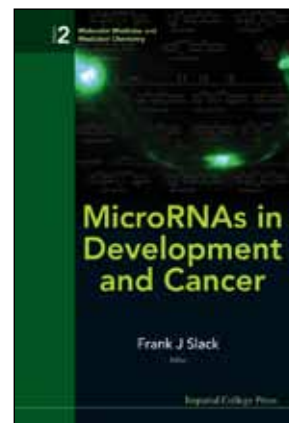
Molecular Medicine and Medicinal Chemistry - Vol. 1

MICRORNAs IN DEVELOPMENT AND CANCERedited by **Frank J Slack** (*Yale University, USA*)

MicroRNAs have recently emerged as key regulators of gene expression during development and are frequently misexpressed in human disease states, in particular cancer. These 22-nucleotide-long transcripts act to promote or repress cell proliferation, migration and apoptosis during development, all of which are processes that go awry in cancer. Thus, microRNAs have the ability to behave like oncogenes or tumor suppressors. In addition, their small size and molecular properties make them amenable as targets and therapeutics in cancer treatment. This book goes into detail on how microRNAs represent a paradigm shift in thinking about gene regulation during development and disease, and provide the oncologist with a potentially powerful new battery of agents to diagnose and treat cancer.

Readership: Cancer researchers, geneticists, molecular biologists and cell biologists.

300pp **Oct 2010**
978-1-84816-366-9 **US\$96** **£66**
978-1-84816-367-6(ebook) **US\$125**



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Other Titles of Interest

NEURONAL CELL SIGNALLING

From Out to In

by **Jon Robbins** (*King's College London, UK*)

This book provides an up-to-date view of the signal transduction pathways in neurones and neuronal cells. It will cover "classical neurotransmission" as well as other signalling pathways such as gaseous signalling and adhesion molecule signalling. Furthermore, global concepts such as signalling crosstalk, spatial and temporal signalling are discussed comprehensively.

The study of cellular signalling is pivotal to understanding cell and tissue function. This book will be a learning aid as well as a source of reference, now that the cell signalling field has matured and made great strides.

Readership: Advanced undergraduates and graduate students, scientists and health professionals in neuroscience (neurology), biochemistry, pharmacology, physiology and cell biology.

300pp **Jan 2012**
978-1-84816-612-7 **US\$88** **£55**
978-1-84816-613-4(ebook) **US\$114**

COMPREHENSIVE CLINICAL PSYCHIATRYby **Steven L Dubovsky** (*University of Buffalo, USA*) & **Amelia N Dubovsky** (*Harvard Medical School, USA*)

This book provides thorough discussions of major topics in clinical psychiatry. These discussions are clinically focused, with treatment algorithms and illustrations of how to provide specific therapies and what to do if they do not work. Sufficient attention is also paid to theoretical issues for readers to understand pathophysiology, psychopathology and treatment rationales, and for residents to perform well on certification examinations. There is also an emphasis on how to interpret research and how to understand and utilize practice guidelines.

This book provides practical approaches to psychiatric disorders and teaches the reader how to interpret current research and how to apply it in the clinical setting. Actual patient vignettes and algorithms will make the material more readily available to physicians on clinical services.

Readership: Medical students; postgraduate students in psychiatry, psychology and social work; school counselors; physicians; general practitioners; psychiatrists, nurses and psychologists.

450pp **Jul 2011**
978-981-4324-66-3 **US\$120** **£74**

CHRONIC PAIN

New Molecular Insights Into Pain and Treatment

by **Min Zhuo** (*University of Toronto, Canada*)

This book successfully explores cellular and molecular mechanisms of chronic pain based on recent basic neurobiological investigations. By focusing on major breakthroughs in basic neurosciences, it is believed to contain the promise for future new pain drug discovery.

Instead of repeating extensive reviews of basic animal and clinical observations, the book provides a novel neuronal model that is believed to be the key target for treating chronic pain. In addition, it reviews and validates animal models developed for studying basic mechanisms of pain and chronic pain, and the current medicine used to treat chronic pain as well as alternative pain treatment. The final few chapters also cover how pain may interfere with other high brain functions, such as fear, anxiety, sleep, memory, etc.

Readership: Neuroscientists, medical students, pain researchers, nurses, doctors, and drug developers.

400pp **Aug 2011**
978-981-4324-52-6 **US\$120** **£74**
978-981-4324-53-3(ebook) **US\$156**

METABONOMICS IN MODERN HEALTH SCIENCES AND TRADITIONAL MEDICINEby **Wei Jia** (*Shanghai Jiao Tong University, China*), **Huiru Tang** (*Chinese Academy of Sciences, China*) & **Zhu Chen** (*Shanghai Institute of Hematology, China*)

Metabonomics is discussed in detail in many applications such as drug development, disease treatment and modernization of traditional Chinese medicine. This book covers research on metabonomics, ranging from the development of specialized chemical analytical techniques to the construction of databases and methods for metabolic simulation. The authors have been directly involved in the development of all the subject areas, including gas chromatography, liquid chromatography, mass spectrometry, metabolic databases, and metabolic simulation. Basic definition, breakthrough achievements and the future of metabonomic studies are described, making this book a valuable source for researchers in metabonomics in diverse fields such as animal, cellular, microbial, pharmaceutical, medical, and life sciences.

Readership: Biochemists, chemists, pharmacists, toxicologists, TCM practitioners.

300pp **Oct 2011**
978-981-283-694-6 **US\$99** **£68**
978-981-283-695-3(ebook) **US\$129**

NONLINEAR MIXTURE MODELS

A Bayesian Approach

by **Tatiana Tatarinova** (*University of Glamorgan, UK*) & **Alan Schumitzky** (*University of Southern California, USA*)

This book provides a broad introduction to the important subject of nonlinear mixture models from a Bayesian perspective. It contains background material, a brief description of Markov chain theory, as well as novel algorithms and their applications. It is self-contained and unified in presentation, which makes it ideal for use as an advanced textbook by graduate students and as a reference for independent researchers. The explanations in the book are detailed enough to capture the interest of the curious reader, and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature.

In this book the authors present Bayesian methods of analysis for nonlinear, hierarchical mixture models, with a finite, but possibly unknown, number of components. These methods are then applied to various problems including population pharmacokinetics, dosage regimen design and gene expression analysis. In population pharmacokinetics, the nonlinear mixture model, based on previous clinical data, becomes the prior distribution for individual therapy. For gene expression data, one application demonstrated by the authors is to determine which genes should be associated with the same component of the mixture (also known as a clustering problem). The book will also have extensive software programs to implement the required algorithms.

Readership: Graduate students and researchers in bioinformatics, mathematical biology, probability and statistics, mathematical modeling, pharmacology/pharmacy.

250pp **Nov 2011**
978-1-84816-756-8 **US\$90** **£59**
978-1-84816-757-5(ebook) **US\$117**

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