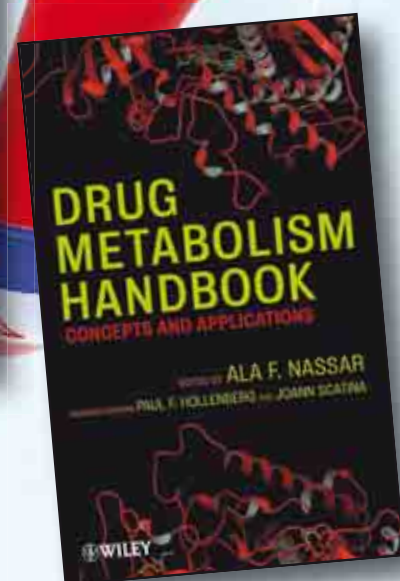
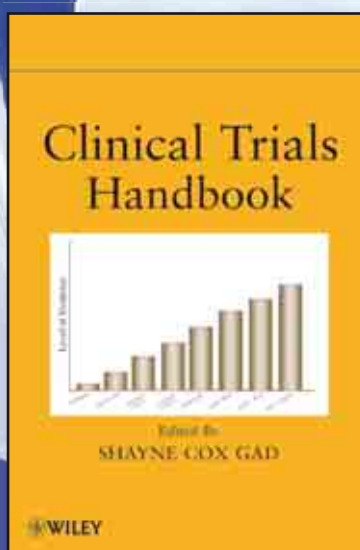
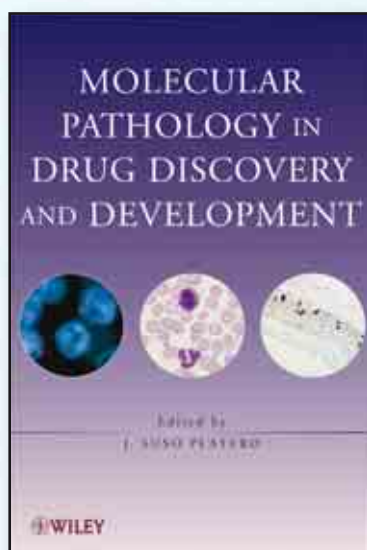
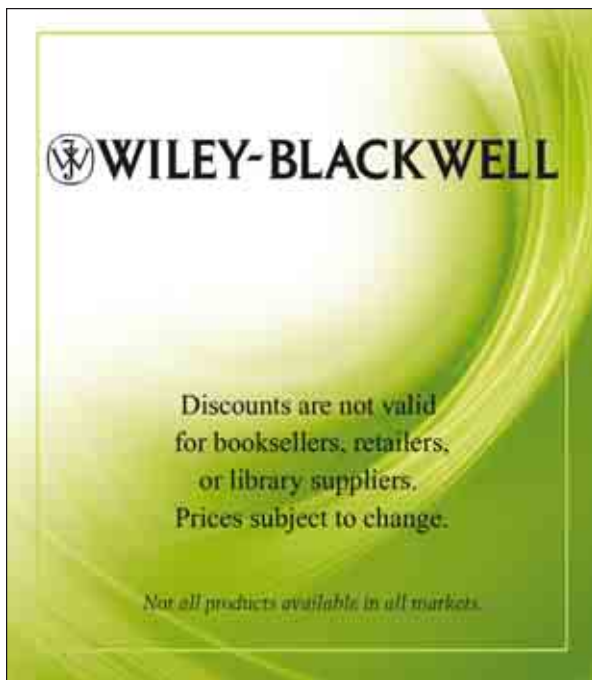


Pharmaceutical Chemistry & Drug Discovery



 WILEY

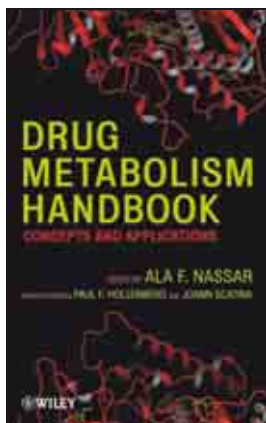
 WILEY-VCH



WILEY-BLACKWELL

Discounts are not valid for booksellers, retailers, or library suppliers. Prices subject to change.

Not all products available in all markets.



Drug Metabolism Handbook

new

Concepts and Applications

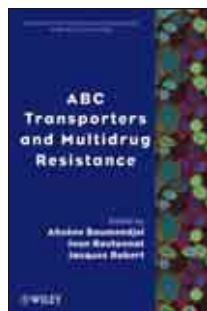
Ala F. Nassar

Drug Metabolism Handbook is dedicated to helping bench scientists take full advantage of the latest and most advanced tools and techniques in the field of drug metabolism. From creating new molecular entities to drug development to troubleshooting, the book explains the concepts of drug metabolism and guides

readers through their application in pharmaceutical research, development, and assessment. Concise and easy to follow, this guide offers succinct reviews of drug metabolism that underscore the importance of the human metabolic system as well as pharmacokinetics and drug interactions. It also contains descriptions of the latest findings and tools, such as online H-D exchange, LC-ram, LC-MS/MS, and LC-MS-NMR, along with full coverage of recent FDA regulations and guidelines for drug safety.

Hardcover 1041 pp 2009 ISBN 978-0-470-11803-0 €149.00/£117.00/CAD \$210.00/USD \$175.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43926-5



ABC Transporters and Multidrug Resistance

new

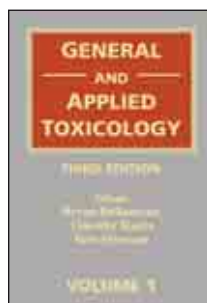
Ahcène Boumendjel, Jean Boutonnet, Jacques Robert, Editors

This book brings together everything that is currently known about the involvement of ABC transporters in drug transport and resistance. Combining updated information from an otherwise-scattered field of scientific literature, this resource helps researchers in pharmaceutical science to develop drugs that are able to counteract multidrug resistance in diseases like cancer. It examines ABC transporters not only at the cancer cell, but also in other important physiological localizations. This book covers these topics as well as the pharmaceutical and medicinal modulation and inhibition of ABC transporters.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 480 pp 2009 ISBN 978-0-470-22734-3 €109.00/£83.50/CAD \$150.00/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-49513-1



General and Applied Toxicology

new

THIRD EDITION

Bryan Ballantyne, Timothy C. Marrs, Skipton House, London, UK; Tore Syversen; Editors

Encompassing 150 articles written by experts in various aspects of toxicology, this new edition of *General and Applied Toxicology* delivers a comprehensive and in-depth review of the basic science of toxicology, its specializations, and the application of toxicological knowledge. Arranged thematically, this three-volume reference contains new topic areas not found in the previous two editions, along with completely revised and restructured topics. The majority of articles are written at an advanced level, aimed at sophisticated undergraduate students, postgraduates, and research scientists, while overview articles are suitable for undergraduate students or newcomers to the field.

Hardcover 4128 pp 2010 ISBN 978-0-470-72327-2 €1149.00/£760.00/CAD \$1554.00/USD \$1295.00



Catalysis in Asymmetric Synthesis

new

SECOND EDITION

Vittorio Caprio, Univ. of Auckland, Australia; Jonathan Williams, Univ. of Bath

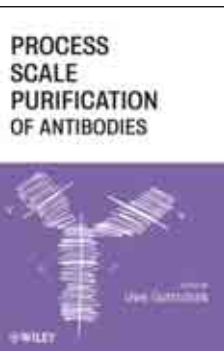
Controlling the stereochemical outcome of reactions in the synthesis of complex natural products or bioactive materials represents a considerable intellectual and practical challenge for chemists.

The stereochemical features of these products are usually essential to their bioactivity, so asymmetric synthesis has become a dominant feature of modern organic chemistry. This new edition of this bestseller illustrates the transformations that can be achieved via this methodology, rather than the organometallic chemistry that lies behind. The emphasis is on non-enzymatic methods of asymmetric catalysis, although key references to enzyme-catalysed reactions have been incorporated where appropriate.

POSTGRADUATE CHEMISTRY SERIES

Paperback 408 pp 2009 ISBN 978-1-4051-7519-7 €44.90/£34.95/CAD \$63.99/USD \$69.99

Hardcover 408 pp 2009 ISBN 978-1-4051-9091-6 €115.00/£90.00/CAD \$156.00/USD \$130.00



Process Scale Purification of Antibodies

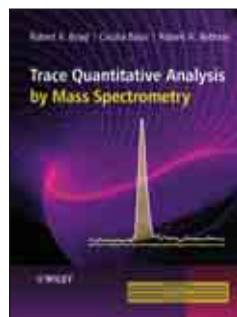
Uwe Gottschalk

Traditional column chromatography dominates current purification technology, and many of the productivity gains that have been achieved have relied on upscaling such devices. However, this comes with a cost penalty and the pharmaceutical industry has reached the point at which further upscaling becomes economically unsupportable. This book offers a broad-based

reassessment of old and new purification methods, incorporating an analysis of innovative new trends in purification. With a wide coverage of different antibody purification strategies, top-tier experts address problems in process-scale antibody purification.

Hardcover 430 pp 2009 ISBN 978-0-470-20962-2 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-44489-4



Trace Quantitative Analysis by Mass Spectrometry

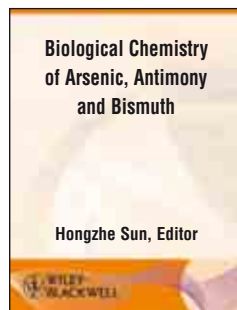
Robert K. Boyd, *Inst. for National Measurements Standards*; Cecilia Basic, *Basic Mass Spec*; Robert A. Bethem, *Alta Analytical Laboratory*

Written in textbook style to facilitate understanding of this topic, this bestselling book provides a serious introduction to the subject of mass spectrometry, providing the reader with the tools and information

to be well prepared to perform such demanding work in a real-life laboratory. This essential tool bridges several subjects and many disciplines, including pharmaceutical, environmental, and biomedical analysis that are utilizing mass spectrometry.

Hardcover 748 pp 2008 ISBN 978-0-470-05771-1 €82.90/£65.00/CAD \$155.99/USD \$130.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-72714-0



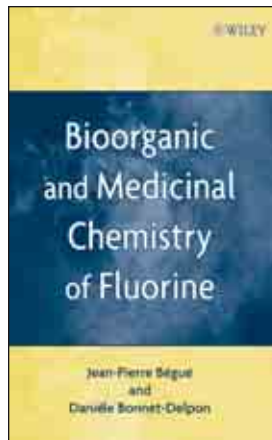
Biological Chemistry of Arsenic, Antimony and Bismuth

Hongzhe Sun, *Univ. of Hong Kong*, Editor

With contributions from an international range of experts, this resource provides an essential overview of the biological chemistry of the related elements arsenic, antimony, and bismuth. Its interdisciplinary approach brings together analytical

chemistry, coordination chemistry, medicinal chemistry, biochemistry, biology, and clinical science. Topics covered include the chemistry, biological chemistry, biomethylation, metalloproteomics, metallomics, uptake of metalloids by cells, genotoxicity, anticancer properties, and arsenic in traditional Chinese medicine, aquifers, the metabolism of arsenic trioxide in leukemia patients, and (with antimony) in environmental and biological samples, plus much more.

Hardcover 520 pp 2009 ISBN 978-0-470-71390-7 €129.00/£100.00/CAD \$210.00/USD \$175.00



Bioorganic and Medicinal Chemistry of Fluorine

Jean-Pierre Bégué,
Daniele Bonnet-Delpon

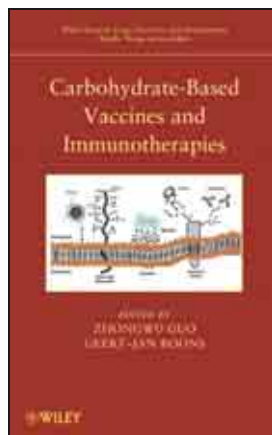
This book demonstrates the critical role fluorine plays in pharmaceutical science and development, including the classification of marketed and in-development fluorinated pharmaceuticals. The first part introduces the preparation of fluorinated compounds and their specific properties. The second part deals with fluorinated analogues of natural products, fluorinated amino acids and peptides, and deriva-

tives of sugars. It also includes a detailed chapter on the conception of enzyme inhibitors. In the final part, the main fluorinated pharmaceuticals, marketed or in development, are classified according to their therapeutic classes.

Complete with references for further study, this is the premier resource on fluorine for pharmaceutical and medicinal chemists in academia and industry, researchers in organic chemistry and biochemistry, and advanced students and educators in pharmaceutical and medicinal chemistry, biochemistry, and organic chemistry.

Hardcover 366 pp 2008 ISBN 978-0-470-27830-7 €94.90/£73.50/CAD \$131.99/USD \$110.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-28189-5



Carbohydrate-Based Vaccines and Immunotherapies

Zhongwu Guo, *Geert-Jan Boons*,
Complex Carbohydrates Research Center, USA

Studies of vaccines derived from carbohydrate antigens have seen great progress. Synthetic carbohydrate-based vaccines, including polysaccharides, neoglycoproteins, and neoglycolipids, have been tried or used to prevent and treat bacterial and viral infections, cancer, and other diseases. This book discusses these developments with a

focus on glycoimmunology, including the design, synthesis, evaluation, and applications of various carbohydrate-based vaccines. It approaches vaccine design from a chemical and molecular focus—different from past work but in-tune with current advances—providing a single, convenient source of state-of-the-art information from leading authorities in the field.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 408 pp 2009 ISBN 978-0-470-19756-1 €109.00/£83.50/CAD \$150.00/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-47328-3

The Chemistry of Heterocyclic Compounds: The Naphthyridines

VOLUME 63

Desmond J. Brown,
Peter Wipf, Edward C. Taylor,

with original references. Each of the six naphthyridine systems are described in valuable detail and coverage includes: primary synthetic methods from non-naphthyridine substrates; chemistry and properties of the parent heterocycle and its simple alkyl derivatives; formation and reactions of halogeno derivatives; formation and reactions of hydroxy, oxo, alkoxy, and related derivatives.

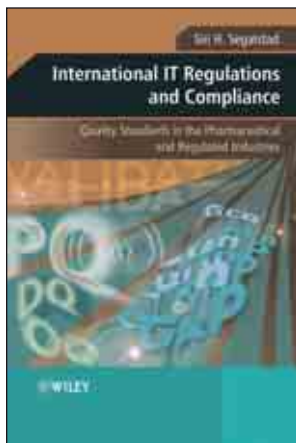
CHEMISTRY OF HETEROCYCLIC COMPOUNDS: A SERIES OF MONOGRAPHS

Hardcover 423 pp 2007 ISBN 978-0-471-75159-5 €385.00/£300.00/CAD \$539.99/USD \$450.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-18116-4

Chemistry of Heterocyclic Compounds Bundle

Hardcover 3889 pp 2008 ISBN 978-0-470-38792-4 €2349.00/£1821.00/CAD \$3277.20/USD \$2731.96



International IT Regulations and Compliance

Quality Standards in the Pharmaceutical and Regulated Industries

Siri H. Segalstad, *Segalstad Consulting AS*

This book aims to bring together current thinking on the implementation of standards and regulations in relation to IT for a wide variety of industries. It will allow the reader to acquire not only knowledge but also understanding of quality

thinking and to apply this knowledge. It will allow them to use the Quality Management System (QMS) as a tool for further development in the organization and to assess QMS from other companies during a vendor audit. In addition, it presents details of what the laboratory systems are and what they do in order to understand how they can be validated. The focus is on systems and standards rather than the underlying chemistry or the theoretical basis of the instrumentation. Finally, it will enable the user to understand the process of validation, how to divide validation into manageable pieces and what is included in the validation for different types of systems.

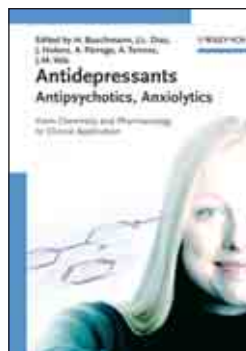
Hardcover 338 pp 2009 ISBN 978-0-470-75882-3 €89.90/£70.00/CAD \$168.00/USD \$140.00

The Chemistry of Heterocyclic Compounds: The Naphthyridines

VOLUME 63

Desmond J. Brown; Peter Wipf, *Univ. of Pittsburgh, USA*; Edward C. Taylor, *Princeton Univ., USA*

A volume in the Chemistry of Heterocyclic Compounds series, this book provides a summary of the chemistry of each of the six naphthyridine systems, along with tables of known simple derivatives



Antidepressants, Antipsychotics, Anxiolytics

From Chemistry and Pharmacology to Clinical Application

TWO-VOLUME SET

Helmut Buschmann, Jörg Holenz, Antonio Párraga, Antoni Torrens, José Miguel Vela, José Luis Díaz, *all of Laboratorios Dr. Esteve, Spain*; Editors

Written by drug developers from the pharmaceutical industry, novel drugs currently under development and new meth-

ods of treatment are listed side by side with classical drugs, allowing a direct comparison of traditional and innovative therapeutic approaches.

Hardcover 1260 pp 2007 ISBN 978-3-527-31058-6 €299.00/£255.00/CAD \$515.99/USD \$430.00

Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61933-7



Chronopharmaceutics

Science and Technology for Biological Rhythm Guided Therapy and Prevention of Diseases

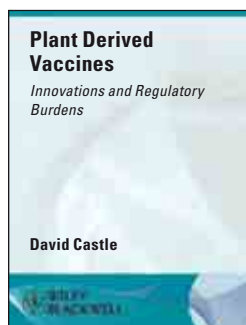
Bi-Botti C. Youan, *Univ. of Missouri-Kansas City, USA*; Editor

Chronopharmaceutics covers the fundamentals of the various aspects of chronopharmaceutics in the fields of chronobiology, chronogenetics, chronophysiology, chronopathology, chronopharmacology, chronotherapeutics, chronotoxicology and chronobiotics, and chronopharma-

ceutical drug delivery research. It discusses different and specific controlled-release systems that are triggered by electric, diffusion, and chemical-activation, and concludes with a description of the regulatory issues along with formulation and manufacturing. As such, it fills a need in both advanced and graduate college courses, as well as on the reference shelves of practicing professionals and researchers.

Hardcover 376 pp 2009 ISBN 978-0-471-74343-9 €94.90/£78.50/CAD \$132.00/USD \$110.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-49839-2



Plant Derived Vaccines

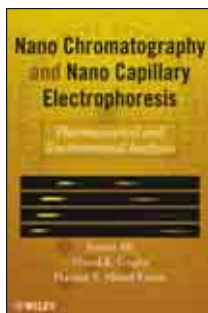
Innovations and Regulatory Burdens

David Castle, *Univ. of Ottawa, Canada*

Discover how to predict the impact various kinds of regulation (intellectual property, bio-safety, etc.) can have on a biotechnical innovation. This guide introduces a semi-quantitative, dynamic simulation model that can be used for the analysis of the dynamics of any biotechnology development and diffusion in

any jurisdiction, with appropriate modifications. The focus is on vaccine development from plants and the book illustrates its model with an analysis of a real-life case of hepatitis B vaccine produced in tomato or tobacco and intended for use in developing countries.

Hardcover 240 pp 2010 ISBN 978-0-470-14345-2 €64.90/£50.50/CAD \$89.99/USD \$74.95



Nano Chromatography and Capillary Electrophoresis

Pharmaceutical and Environmental Analyses

Imran Ali, National Inst. of Hydrology, India;
Hassan Y. Aboul-Enein

This book details the instrumentation, detection, and application of nano chromatography and capillary electrophoresis in the analyses of biological and environmental samples and offers practical explanations of all stages of nano sample detection. It also highlights applications in materials science, nutrition, agriculture, and chemistry. Sample preparation methods are discussed, including: nano gas chromatography, nano capillary electrophoresis, nano chiral chromatography, micellar electrokinetic chromatography, supercritical fluid chromatography, and nano high performance liquid chromatography.

Hardcover 270 pp 2009 ISBN 978-0-470-17851-5

€77.90/£60.50/CAD \$107.95/USD \$89.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43492-5



Reaction Mechanisms in Organic Synthesis

Rakesh Parashar, Delhi Univ., India

The jump from an understanding of organic chemistry at undergraduate level to that required at postgraduate level or in

industry can be substantial. By discussing organic reaction mechanisms in the context of organic synthesis, this advanced textbook provides a highly practical, structured framework from which to build a good understanding of the essential underlying principles of organic reactions. The focus on synthetically useful reactions ensures the contents are specifically relevant to postgraduate students and industrial organic chemists.

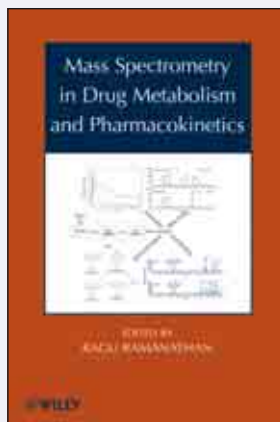
POSTGRADUATE CHEMISTRY SERIES

Hardcover 392 pp 2009 ISBN 978-1-4051-5072-9

€115.00/£90.00/CAD \$194.00/USD \$162.00

Paperback 392 pp 2009 ISBN 978-1-4051-9089-3

€47.90/£37.50/CAD \$81.50/USD \$67.50



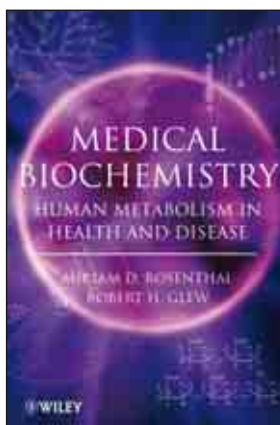
Mass Spectrometry in Drug Metabolism and Pharmacokinetics

Ragu Ramanathan, Editor

This timely reference discusses mass spectrometry in drug metabolism and pharmacokinetic studies. With contributions by professionals from the pharmaceutical industry, this book begins with a review of current mass spectrometry techniques and applications, followed by discussions of various methods for using MS in drug metabolism studies and pharmacokinetics. Highlighting the critical importance of ADME studies for understanding how a drug is absorbed, distributed, metabolized, and excreted by the body, the book's focuses on the use of LC/MS and MALDI-MS.

Hardcover 390 pp 2009 ISBN 978-0-471-75158-8 €82.90/£63.50/CAD \$114.00/USD \$95.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-40981-7



Medical Biochemistry

Human Metabolism in Health and Disease

Miriam D. Rosenthal, Robert H. Glew, Editors

Metabolism includes various pathways of chemical reactions; understanding these pathways leads to an improved knowledge of the causes, preventions, and cures for human diseases. *Medical Biochemistry: Human Metabolism in Health and Disease*, delivers a concise yet thorough explanation of human metabolism and its role in health and diseases. Focusing on the physiological context of human metabolism without extensive consideration of the mechanistic principles of underlying enzymology, the books serves as both a primary text and resource for students and

professionals in medical, dental, and allied health programs.

Paperback 426 pp 2009 ISBN 978-0-470-12237-2 €59.90/£46.95/CAD \$83.95/USD \$69.95



Drug Bioavailability

Estimation of Solubility, Permeability, Absorption and Bioavailability

SECOND, COMPLETELY REVISED EDITION

Han van de Waterbeemd, AstraZeneca, Mereside, UK;
Bernard Testa, Univ. Hospital Lausanne, Switzerland;
Raimund Mannhold, Univ. of Düsseldorf, Germany; Hugo Kubinyi, Univ. of Heidelberg, Germany and Gerd Folkers, ETH—Swiss Institute of Technology, Zürich, Switzerland

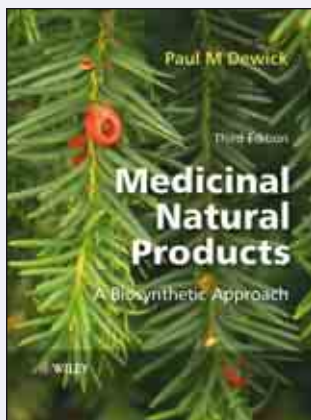
Reviews of the Previous Edition:

This monograph is without a doubt the most comprehensive and up to date publication on drug bioavailability available today . . . very highly recommended . . .—**Journal of Medicinal Chemistry**

The gold standard for industrial research, this book is now completely revised, in line with current trends in the field, with all contributions extensively updated or rewritten. In 21 chapters readers can benefit from the key working knowledge of today's leading pharmaceutical companies, including Pfizer, AstraZeneca, and Roche. Drug developers from industry and academia present all the factors governing drug bioavailability, complete with practical examples and real-life data.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 649 pp 2009 ISBN 978-3-527-32051-6 €159.00/£140.00/CAD \$276.00/USD \$230.00



Medicinal Natural Products

best
seller

A Biosynthetic Approach

THIRD EDITION

Paul M. Dewick, *Univ. of Nottingham, UK*

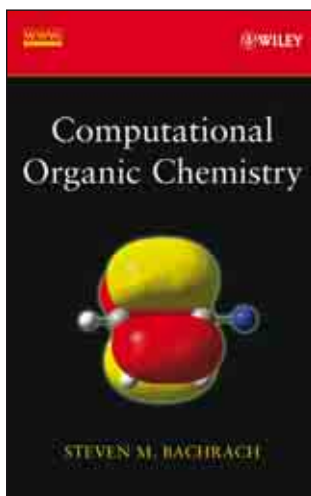
Medicinal Natural Products is a comprehensive and balanced introduction to natural products from a biosynthetic perspective that focuses on the metabolic sequences leading to various

classes of natural products. The book builds upon fundamental chemical principles and guides the reader through a wealth of diverse natural metabolites, emphasizing those used in medicine: sources, production methods, use as drugs, semi-synthetic derivatives and synthetic analogues, and modes of action are all extensively covered. This is an invaluable textbook for students of pharmacy, pharmacognosy, medicinal chemistry, biochemistry, and natural products synthesis.

Paperback 550 pp 2009 ISBN 978-0-470-74167-2 €44.90/£34.95/CAD \$84.00/USD \$70.00

Hardcover 550 pp 2009 ISBN 978-0-470-74168-9 €109.00/£85.00/CAD \$204.00/USD \$170.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-74276-1



Computational Organic Chemistry

Steven M. Bachrach

“The strength of the book lies in the very detailed discussion of the case examples, the comparison of different methods . . .” —Angewandte Chemie

Computational Organic Chemistry affords readers a practical overview of the ways in which computational modeling methods and applications can be used in organic chemistry to predict the structure and reactivity

of organic molecules. After a concise survey of computational methods, the book presents in-depth case studies that show how various computational methods have provided critical insight into the nature of organic mechanisms. This is a great reference for practicing physical organic and computational chemists, as well as a thought-provoking textbook for graduate-level courses in computational chemistry and organic chemistry.

Hardcover 496 pp 2007 ISBN 978-0-471-71342-5 €109.00/£86.95/CAD \$155.99/USD \$130.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-14813-6



Pharma-Ecology

The Occurrence and Fate of Pharmaceuticals and Personal Care Products in the Environment

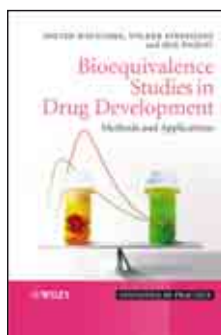
Patrick K. Jemba

This book imparts important data on the environmental impacts of pharmaceuticals and personal care products (PPCPs). It highlights the biological effects of pharmaceutical compounds in clinical settings, their modes of action, and approximate quantities consumed. Moreover, the book stresses some of the ecotoxicological aspects of PPCPs

and includes a chapter that links clinical pharmacokinetics/pharmacodynamics (PK/PD) with the kinetics of PPCPs in the environment. Major sections discuss the detection and occurrence of PPCPs in the environment, ecopharmacokinetics and ecopharmacodynamics, the ecotoxicity of PPCPs, and technologies for removing PPCPs.

Hardcover 314 pp 2008 ISBN 978-0-470-04630-2 €84.90/£66.95/CAD \$98.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-36934-0



Bioequivalence Studies in Drug Development

Methods and Applications

Dieter Hauschke, Volker Steinijans, *both of ALTANA Pharma, Germany*; Iris Pigeot, *Univ. of Bremen, Germany*

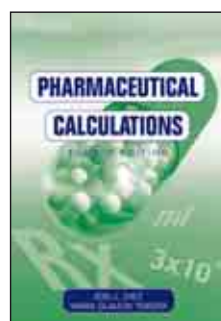
Studies in bioequivalence are the commonly accepted method to demonstrate therapeutic equivalence between two medicinal products. Savings in time and cost are substantial when using bioequivalence as an established surrogate

marker of therapeutic equivalence. This book focuses on the planning, conducting, analysing and reporting of bioequivalence studies, covering all aspects required by regulatory authorities. The text presents the required statistical methods, and with an outstanding practical emphasis, demonstrates their applications through numerous examples using real data from drug development.

STATISTICS IN PRACTICE

Hardcover 328 pp 2007 ISBN 978-0-470-09475-4 €69.90/£55.00/CAD \$131.99/USD \$110.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-09477-8



Pharmaceutical Calculations

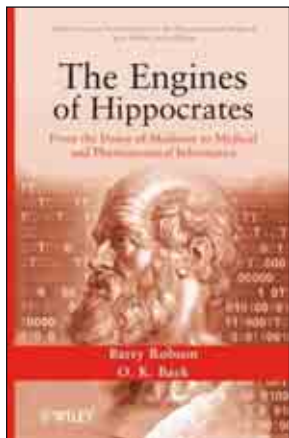
FOURTH EDITION

Joel L. Zatz, *Rutgers Univ.*; Maria Glauca Teixeira, *Univ. of Wyoming*

Pharmacists are required to make certain kinds of calculations that determine the quantities of materials required for filling prescriptions and making up formulas. This fourth edition resource teaches pharmacists and pharmacy students how to do the calculations required in current practice, covering important areas such as handling injectibles.

Paperback 472 pp 2005 ISBN 978-0-471-43353-8 €64.90/£51.50/CAD \$91.99/USD \$76.50

Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-67515-0



The Engines of Hippocrates

From the Dawn of Medicine to Medical and Pharmaceutical Informatics

Barry Robson, O. K. Baek

Encouraging the understanding of the human body and human diseases down to the molecular level, *The Engines of Hippocrates* reflects the hands-on perspective of authors Robson and Baek as they explain the history and techniques of, and assess the

potential for, information-based medicine that can improve the costs, efficiency, and practice of pharmaceutical and medical science. Covering a broad range of topics, the book profiles scientists in drug research and development, who offer timely insights and discoveries that are impacting the pharmaceutical and biomedical industries.

WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

Hardcover 598 pp 2009 ISBN 978-0-470-28953-2 €84.90/£66.95/CAD \$119.95/USD \$99.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-46180-8



Wiley Encyclopedia of Chemical Biology

4
volume
set

FOUR-VOLUME SET

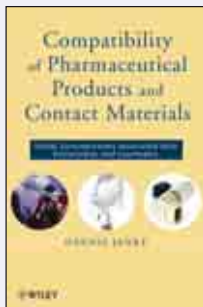
Tadhg P. Begley

The *Wiley Encyclopedia of Chemical Biology* is an authoritative new work that illuminates the crucial role of chemistry and chemical techniques in the life sciences. With 300 articles designed to provide accessibility to the widest possible readership, this title will

remain an authoritative resource in the field for many years to come. The scope of the work reflects the multidimensional character of chemical biology, focusing in particular on the fundamental science of biological structures and systems, the use of chemical and biological techniques to elucidate that science, and the applications of this knowledge in areas as diverse as drug discovery, sensor technology, and catalysis. Major topics covered include chemical views of biology, biomolecules within the cell, chemistry of biological processes and systems, chemical biology of cellular compartments, synthetic molecules as tools for chemical biology, technologies and techniques in chemical biology, and applications of chemical biology.

Hardcover 3188 pp 2009 ISBN 978-0-471-75477-0
€945.00/£737.00/CAD \$1680.00/USD \$1200.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-04867-2



Compatibility of Pharmaceutical Solutions and Contact Materials

Safety Assessments of Extractables and Leachables for Pharmaceutical Products

Dennis Jenke

Jenke's book specifically addresses the safety aspects of drug compatibility as well as the impact of packaging material on the full lifecycle of a drug. The author deals with issues such as how the leachables impact safety of a therapeutic product and, more importantly,

how one ascertains the magnitude of the impact. The book examines the strategies and tactics for performing safety assessments for leachables and extractables and establishes the means for interpreting the results obtained from such assessments. It helps the pharmaceutical industry unify methodology for assessing leachables and extractables safety of drug packaging. It also defines the roles played by professionals in product development, analytical sciences, regulatory affairs, and manufacturing of drug and medical packaging.

Hardcover 379 pp 2009 ISBN 978-0-470-28176-5 €94.90/£73.50/CAD \$132.00/USD \$110.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-45941-6



Cancer Stem Cells

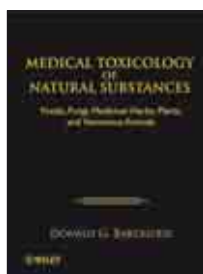
Identification and Targets

Sharmila A. Bapat, Editor

Because the concept and discoveries of cancer stem cells are relatively new, many scientists can benefit an introduction to this dynamic area. *Cancer Stem Cells* presents a consolidated account of research into cancer stem cells to date. The book provides an informative study in designing approaches for applying stem cell principles to cancer biology, while offering an overview of the challenges in developing combination stem and cancer biology

targets for therapeutics.

Hardcover 276 pp 2008 ISBN 978-0-470-12201-3 €67.90/£53.50/CAD \$95.95/USD \$79.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-39159-4



Medical Toxicology of Natural Substances

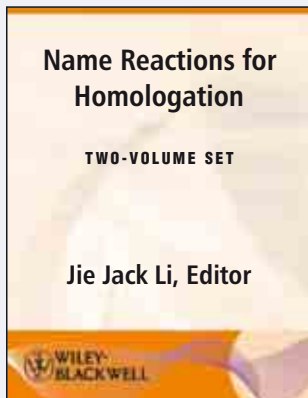
Foods, Fungi, Medicinal Herbs, Plants, and Venomous Animals

Donald G. Barceloux

"It should be a part of the library of any scientist who deal with natural products research, as well as toxicologists and pharmacologists."—*Journal of Medicinal Chemistry*

An authoritative comprehensive, evidence-based book on the diagnosis and treatment of toxicity associated with natural substances. The 185 chapters in this volume provide detailed information on the identification, exposure, principal toxins, dose response, toxicokinetics, clinical features, diagnostic testing, and treatment of the most important natural toxins. Written by a highly experienced author, this reference work is an important resource for all health professionals involved with the toxicity of natural substances.

Hardcover 1158 pp 2008 ISBN 978-0-471-72761-3 €165.00/£130.00/CAD \$234.00/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-33031-9



Name Reactions for Homologation

TWO-VOLUME SET

Jie Jack Li, Editor

Name Reactions for Homologation

new

TWO-VOLUME SET

Jie Jack Li, Pfizer
Global Research and
Development, USA;
Editor

A comprehensive and authoritative review of name reactions on homologation. Each section includes a description of the reaction,

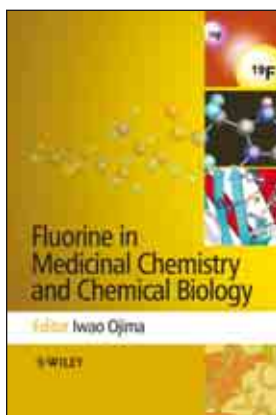
the historical perspective, a mechanism for the reaction, variations and improvements on the reaction, synthetic utilities of the reaction, experimental details, and current references to the primary literature. Primary topics include organometallics (palladium, organozinc, organocopper, other organometallics), carbon-chain homologation, (rearrangement, concerted rearrangement, cationic rearrangement, anionic rearrangement, other rearrangements), radical chemistry, asymmetric C-C bond formation, and other types (such as Cannizzaro disproportionation, Eschenmoser coupling, Mannich, Mitsunobu, Passerini, and Ugi).

COMPREHENSIVE NAME REACTIONS

Hardcover 1520 pp 2009 ISBN 978-0-470-46721-3

€195.00/£150.00/CAD \$270.00/USD \$225.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-48718-1



Fluorine in Medicinal Chemistry and Chemical Biology

Iwao Ojima, State Univ.
of New York, Editor

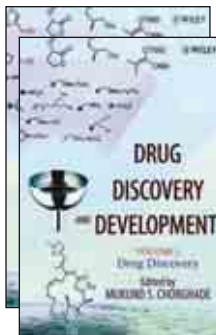
The extraordinary potential of fluorine-containing biologically relevant molecules in biology, medicinal chemistry, and medical applications has been recognized by researchers who are not in the traditional

fluorine chemistry field, and thus a new wave of fluorine chemistry is expanding its biomedical frontiers. This book contains comprehensive reviews on cutting-edge developments and future prospects of fluorine in bioorganic and medicinal chemistry. It is essential for researchers who want to take advantage of the use of fluorine in biomedical research, from rational drug design, theory and synthesis to the use of fluorine labels as probes in metabolic study, protein engineering, and clinical diagnosis.

Hardcover 640 pp 2009 ISBN 978-1-4051-6720-8

€155.00/£120.00/CAD \$263.99/USD \$219.99

Online Book. See ad on page 17 for ordering information. ISBN 978-1-4443-1209-6



Drug Discovery and Development

TWO-VOLUME SET

Mukund S. Chorghade, Chorghade Enterprises, Editor

“... reasonably priced, well written, and produced.”
—Journal of Medicinal Chemistry

This innovative two-volume set offers a unique, integrated presentation of the full spectrum of operations involved in drug discovery and development. The set covers the strategies, tactics, milestones, and benchmarks throughout the entire sequence of operations, from discovering a drug to prescribing it.

2 VOLUME SET

Hardcover 904 pp 2007 ISBN 978-0-471-39846-2 €169.00/£133.00/CAD \$239.99/USD \$199.95

VOLUME 1: DRUG DISCOVERY

Hardcover 476 pp 2006 ISBN 978-0-471-39848-6 €99.90/£80.50/CAD \$143.99/USD \$120.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-78010-6

VOLUME 2: DRUG DEVELOPMENT

Hardcover 400 pp 2007 ISBN 978-0-471-39847-9 €97.90/£76.95/CAD \$137.99/USD \$115.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-08522-6



Computational Drug Design

A Guide for Computational and Medicinal Chemists

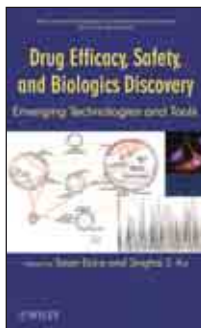
D. C. Young

There has been a great surge in the usage of computational drug design techniques over the past 20 years. Filling the need for an easily understood, nonmathematical text on drug design, *Computational Drug Design* explores the wide range of computational techniques available for the drug design process, and puts them in the framework of the drug design process. This valuable learning source provides

students, computational chemists, organic, medicinal and pharmaceutical chemists, and biochemists with a solid perspective on the entire breadth of the field.

Hardcover w/CD-ROM 307 pp 2009 ISBN 978-0-470-12685-1 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-45185-4



Drug Efficacy, Safety, and Biologics Discovery

Emerging Technologies and Tools

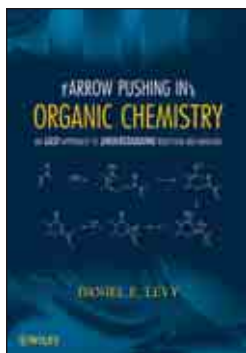
Sean Ekins, Jinghai J. Xu, Editors

Covering key emerging technologies and their impact on drug discovery—systems biology, stem cells, RNAi, biomarker discovery, computational/in silico approaches, and high throughput and high content screening—this book introduces important technologies to pharmaceutical scientists beginning to apply them, and enhances knowledge of these technologies for experienced pharmaceutical scientists. Cutting across the multiple areas of drug discovery, each chapter authored by pioneers in that field, making for a broad appeal to those involved in drug discovery and development.

WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

Hardcover 408 pp 2009 ISBN 978-0-470-22555-4 €97.90/£76.95/CAD \$138.00/USD \$115.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43181-8



Arrow-Pushing in Organic Chemistry

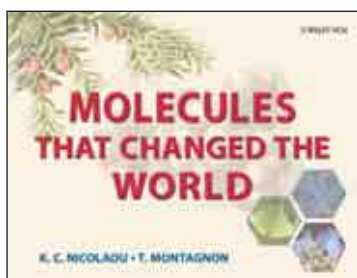
An Easy Approach to Understanding Reaction Mechanisms

Daniel E. Levy, *Scios, Inc*

Learn the science with no need to memorize reactions. In this work generic examples organic chemistry concepts are condensed to fundamental, recognizable, reaction types. Readers will come to know when a specific reaction type is relevant. Problem sets emphasize the

important aspects of each chapter, reinforce your knowledge of chemistry, introduce you to other aspects of organic chemistry, and offer pointers on topics covered in organic chemistry classes. Electron flow from atom to atom is emphasized.

Paperback 320 pp 2008 ISBN 978-0-470-17110-3 €37.90/£28.50/CAD \$51.50/USD \$42.50



Molecules That Changed The World

K. C. Nicolaou, *The Scripps Research Inst. and UC San Diego USA*; Tamsyn Montagnon, *Univ. of Crete, Greece*

Delve into the fascinating world of substances like aspirin, taxol and many more.

This exciting new book introduces the world's most important molecules, showing the role certain compounds have to play in our everyday lives. For example, the story of aspirin is featured, beginning 3,500 years ago in Egypt, through to its first synthesis and various applications. This is a must for every chemist, natural scientist and everyone interested in the sciences.

Hardcover 385 pp 2008 ISBN 978-3-527-30983-2 €34.90/£29.95/CAD \$65.99/USD \$55.00



Emerging Technology Platforms for Stem Cells

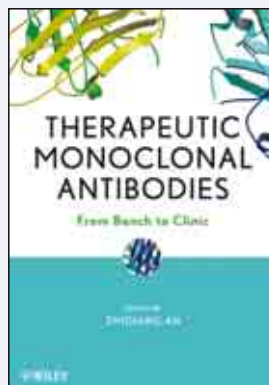
Uma Lakshmi, Jonathan D. Chesnut, Bhaskar Thyagarajan

Focusing on practical applications for using adult and embryonic stem cells in the pharmaceutical development process, this book emphasizes new technologies to help overcome the bottlenecks in developing stem cells as therapeutic agents. It presents the general principles and methodologies in stem cell research and covers topics such as derivitization and character-

ization of stem cells, stem cell culture and maintenance, stem cell engineering, applications of high-throughput screening, and stem cell genetic modification with their use for drug delivery.

Hardcover 505 pp 2009 ISBN 978-0-470-14693-4 €109.00/£83.50/CAD \$150.00/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-45492-3



Therapeutic Monoclonal Antibodies

From Bench to Clinic

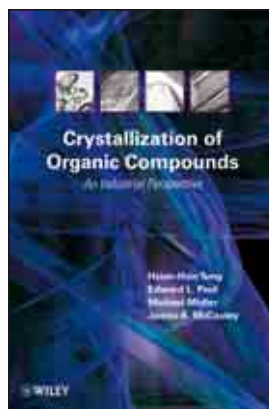
Zhiqiang An, *Merck Research Laboratories, USA*; Editor

This is the first single-volume book that addresses the entire process of discovery, development, and clinical application of therapeutic monoclonal antibodies. In seventy well-organized chapters, readers are provided with experimental data that illustrates all of

the theories and essential methodologies. The book covers basic antibody biology, antibody sources, antibody engineering, physiology and in vivo biology, antibody production and delivery, antibody therapeutic targets, therapeutic monoclonal antibodies in clinical use and clinical trials, and biologics/biosimilars. Most chapters contain experimental data that illustrates the principles described therein. Moreover, the authors provide detailed methodologies that readers can take away with them and use in their own laboratories.

Hardcover 896 pp 2009 ISBN 978-0-470-11791-0 €129.00/£100.50/CAD \$179.95/USD \$149.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-48540-8



Crystallization of Organic Compounds

An Industrial Perspective

Hsien-Hsin Tung, Edward L. Paul, Michael Midler, James A. McCauley

Based on the authors' hands-on experiences as process engineers at Merck, *Crystallization of Organic Compounds* guides readers through the practical aspects of crystallization. It uses plenty of case studies and examples of crystallization processes, ranging from development through to manufacturing scale-up. The book begins with

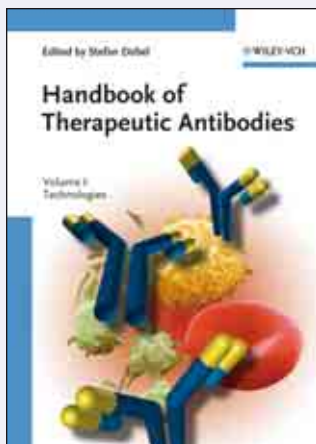
detailed discussions of fundamental thermodynamic properties, nucleation and crystal growth kinetics, process dynamics, and scale-up considerations. Next, it investigates modes of operation, including cooling, evaporation, anti-solvent, and reactive crystallization. It concludes with special applications such as ultrasound in crystallization and computational fluid dynamics in crystallization. Most chapters feature multiple examples that guide readers step by step through the crystallization of active pharmaceutical ingredients (APIs).

Hardcover 289 pp 2009 ISBN 978-0-471-46780-9 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-44779-6

new

new



Handbook of Therapeutic Antibodies

THREE-VOLUME SET

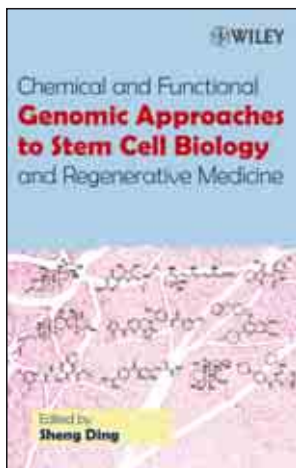
Stefan Dübel, Institute of Biochemistry and Biotechnology, Technical Univ., Germany, Editor

"It is a 'must-have' resource for every scientist dealing with their amazing molecules..."—Lab Times

In this most comprehensive reference source for the development, production, and therapeutic application of antibodies, the first volume

contains general chapters presenting established technologies and clinical applications. The second volume provides a look at emerging technologies, new therapeutic concepts, and clinical studies. The third volume features detailed and specific information about each currently approved type of antibody, including the clinical data.

Hardcover 1228 pp 2007 ISBN 978-3-527-31453-9 €499.00/£425.00/CAD \$863.99/USD \$720.00
Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61974-0



Chemical and Functional Genomic Approaches to Stem Cell Biology and Regenerative Medicine

Sheng Ding, The Scripps Research Institute, Editor

Focusing on functional genomics and chemical biology approaches that can control stem cell proliferation and differentiation, this book:

- Discusses the use of both embryonic and adult stem cells
- Covers a vast array of technologies, including: genome-wide expression analysis, large-scale

gain- and loss-of-function genetic studies with cDNA and RNAi libraries, chemical genomics, high-throughput cell-based screens, and proteomics

- Guides researchers in understanding the various technologies and tools available for studying stem cell biology.

With chapters contributed by leading authorities, this book is a hands-on reference for chemists, biologists, biochemists, bioinformaticians, clinicians, and managers involved in stem cell research. It is also an excellent text for interdisciplinary courses such as functional genomics, stem cell biology, and chemical biology.

Hardcover 258 pp 2008 ISBN 978-0-470-04146-8 €72.90/£56.95/CAD \$101.99/USD \$84.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-19913-8



The Merck Index

An Encyclopedia of Chemicals, Drugs, and Biologicals

FOURTEENTH EDITION

Maryadele J. O'Neil, Editor

With more than one million copies sold, *The Merck Index* has been the go-to reference for generations of professionals looking for precise, comprehensive information on chemicals, drugs, and biologicals. This new edition has been extensively revised to ensure its

accuracy and contains more than 10,000 monographs, 32 supplemental tables, 450 Organic Name Reactions, and now includes a companion CD! New to the fourteenth edition, you'll find over 700 new or completely revised monographs; thousands of new references, trademarks, uses, and physical properties added to existing monographs; and much, much more.

Hardcover w/CD-ROM 2564 pp 2006 ISBN 978-0-911910-00-1 CAD \$149.99/USD \$125.00
Not for Sale in areas outside North America



Technology Transfer in Biotechnology

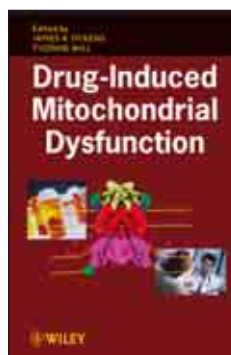
A Global Perspective

Prabuddha Ganguli, Vision IPR, India; Ben Prickril, KenGar Consulting, France; Rita Khanna, International Technology Transfer Management, USA; Editors

Here, the world's top experts impart their knowledge and experience, many in print for the first time. By considering developing country markets, this book is the first truly global guide to technology transfer,

helping companies all around the world to avoid costly mistakes in product development and to recover investments quickly. Individual sections treat trade-related aspects of intellectual property rights, technology transfer in health and healthcare, as well as in agriculture and the environment.

Hardcover 232 pp 2009 ISBN 978-3-527-31645-8 €75.00/£65.00/CAD \$174.00/USD \$145.00



Drug-Induced Mitochondrial Dysfunction

James A. Dykens, Yvonne Will, Editors

Developed as a one-stop reference source for drug safety and toxicology professionals, this book explains why mitochondrial failure is a crucial step in drug toxicity and how it can be avoided. It allows readers to understand the basis of mitochondrial function and the preclinical assessments used and what they reveal about drug effects.

Hardcover 616 pp 2008 ISBN 978-0-470-11131-4 €125.00/£96.95/CAD \$174.00/USD \$145.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-37253-1



Computer Applications in Pharmaceutical Research and Development

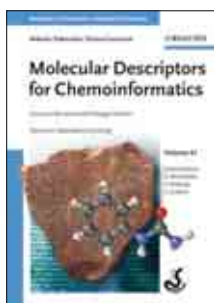
Sean Ekins, Editor

“... a well-put-together volume with a lot of very interesting and timely information to convey...”
—*Journal of Medicinal Chemistry*

This unique text analyzes the use of computers through the entire pharmaceutical process of discovering, developing, and marketing new medicines. It shows how computers have been used

for the various stages of drug discovery and development, like bioinformatics, data mining, predicting human response to drugs, and high throughput screening. Figures are used extensively to illustrate complex concepts and multifaceted processes, with references provided in each chapter to enable readers to continue investigating a particular topic in depth. Finally, tables of software resources are provided in many of the chapters.

Hardcover 805 pp 2006 ISBN 978-0-471-73779-7 €125.00/£96.95/CAD \$173.99/USD \$145.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-03723-2



Molecular Descriptors for Chemoinformatics

TWO-VOLUME SET

Roberto Todeschini, Viviana Consonni,
both of Univ. of Milan-Bicocca, Italy

This second edition of the number-one reference on the topic now contains a wealth of new data. The first volume contains an alphabetical listing of some 3,300 terms for the chemoinformatic analysis of chemical compound properties, while

the second volume contains 6,343 references selected from 450 journals with about 7,000 authors quoted covering the period from the beginning of molecular descriptor research until the year 2008. In this second edition, the greatly expanded introductory section has been completely re-written and now contains several “walk-through” reading lists of selected keywords to make the data even more accessible for novice users.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 1257 pp 2009 ISBN 978-3-527-31852-0

Introductory pricing: €329.00/£270.00/CAD \$534.00/USD \$460.00

Introductory pricing offer ends September 30, 2009. No catalog discounts apply.



Drug Truths

Dispelling the Myths About Pharma R & D

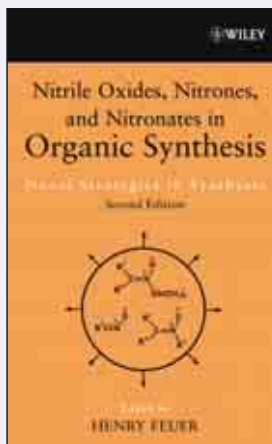
John L. LaMattina

“This is an important and timely book... [that] should become indispensable to those who wish to either understand or set policy.” —*Dr. Richard A. Lerner, president of The Scripps Research Inst.*

Written by the former head of Pfizer's global R&D, this book offers an insider's account of the pharmaceutical industry drug discovery process, the very real costs of misperceptions about the industry, the high stakes—both economic and scientific—of developing drugs, the triumphs that come when new compounds reach the market and save lives, and the despair that follows when new compounds fail.

Paperback 152 pp 2008 ISBN 978-0-470-39318-5 €22.90/£16.95/CAD \$29.95/USD \$24.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43467-3

best
seller



Nitrile Oxides, Nitrones, and Nitronates in Organic Synthesis

Novel Strategies in Synthesis

SECOND EDITION

Henry Feuer, Purdue Univ., USA,
Editor

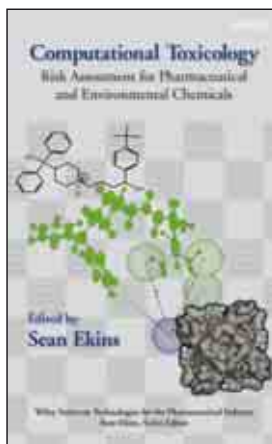
This reference authoritatively covers systematic strategies currently used in the preparation and utilization of nitrile oxides, nitrones, and nitronates in organic synthesis. With contributions from leading experts in the field, it presents up-to-date information on:

- Factors governing the stability of nitrile oxides, nitrones, and nitronates
- Syntheses, properties, and applications of stable nitrile oxides, nitrones, and nitronates
- Specific transformations of unstable nitrile oxides, nitrones, and nitronates in the absence of other reagents
- 1,3-dipolar cycloaddition and other addition reactions of nitrile oxides, nitrones, and nitronates

ORGANIC NITRO CHEMISTRY

Hardcover 753 pp 2008 ISBN 978-0-471-74498-6 €169.00/£133.00/CAD \$238.99/USD \$199.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-19155-2



Computational Toxicology

Risk Assessment for
Pharmaceutical and Environmental
Chemicals

Sean Ekins, Editor

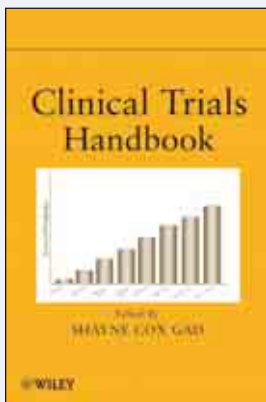
This unique volume explains how the interaction of molecules with toxicologically relevant targets can be predicted using computer-based tools. You'll discover how QSAR methods are applied to enzymes, transporters, nuclear receptors, and ion channels. The book also clearly shows how in

vitro models are used, covers newer technologies, and addresses regulatory aspects. It offers a complete systems perspective regarding risk assessment prediction, and discusses experimental and computational approaches in detail. There are also sections on applying computers to toxicology assessment in the pharmaceutical industry and in the environmental arena.

WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

Hardcover 814 pp 2007 ISBN 978-0-470-04962-4 €135.00/£103.00/CAD \$185.99/USD \$155.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-14589-0



Clinical Trials Handbook

new

Shayne Cox Gad, *Gad Consulting Services, USA*; Editor

Simply stated, the *Clinical Trials Handbook* is an utterly comprehensive reference on the basics and practices of clinical trials, which are arguably the most important steps in proving a drug effective and safe for public use. With contributions from a broad range of acclaimed international authors, the book takes the reader through each trial phase, technique, and issue.

Chapters include interdisciplinary topics that have to be coordinated for a successful clinical trial: data management (and adverse event reporting systems), biostatistics, pharmacology, toxicology, modeling and simulation, regulatory monitoring, ethics, and particular issues for given disease areas (cardiology, oncology, neuroscience, etc.).

PHARMACEUTICAL DEVELOPMENT SERIES

Hardcover 1248 pp 2009 ISBN 978-0-471-21388-8 €165.00/£130.00/CAD \$234.00/USD \$195.00



Preclinical Development Handbook

TWO-VOLUME SET

Shayne Cox Gad, *Gad Consulting Services, USA*; Editor

This two-volume reference details steps in the preclinical process, including prioritizing and optimizing leads, dose formulation, ADME, pharmacokinetics, toxicity, modeling, and regulations. It includes problems that are encountered,

solutions to these problems, and a compendium of methods and techniques that need to be considered when developing a new drug.

BUY THE SET AND SAVE:

PHARMACEUTICAL DEVELOPMENT SERIES

Hardcover 2432 pp 2008 ISBN 978-0-471-21383-3 €255.00/£197.00/CAD \$353.99/USD \$295.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-24903-1

Preclinical Development Handbook

ADME and Biopharmaceutical Properties

Shayne Cox Gad, *IBS, Raleigh, North Carolina*; Editor

Hardcover 1329 pp 2008 ISBN 978-0-470-24847-8 €165.00/£130.00/CAD \$233.99/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-24903-1

Preclinical Development Handbook

Toxicology

Shayne Cox Gad, *IBS, Raleigh, North Carolina*; Editor

Hardcover 1060 pp 2008 ISBN 978-0-470-24846-1 €165.00/£130.00/CAD \$233.99/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-24905-5



Handbook of Pharmaceutical Biotechnology

Shayne Cox Gad, *Gad Consulting Services, USA*; Editor

The *Handbook of Pharmaceutical Biotechnology* explores the use of biotechnology to develop pharmaceuticals. It gives the professional a basic tool to facilitate the development of biotech medicines by bringing together, in one resource, a general, but not trivial, overview of biotechnology used in the drug development process, along with a compendium of regulations and validation methods that need to be considered when using biotech to develop a new drug.

PHARMACEUTICAL DEVELOPMENT SERIES

Hardcover 1680 pp 2007 ISBN 978-0-471-21386-4 €165.00/£130.00/CAD \$233.99/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-11711-8



Drug Discovery Handbook

best seller

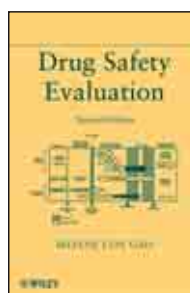
Shayne Cox Gad, *Gad Consulting Services, USA*; Editor

The *Drug Discovery Handbook* gives the professional a comprehensive, practical guide for professionals the latest techniques and methods in drug discovery, including genomics, involved in drug discovery. This practical guide will present an explanation of proteomics, high throughput screening, and systems biology. This resource summarizes how these techniques and methods are used

to discover new central nervous system agents, antiviral agents, respiratory drugs, oncology drugs, etc. Individual chapters detail specific approaches to drug discovery, including problems that are encountered, solutions to these problems, and limitations of various methods and techniques.

PHARMACEUTICAL DEVELOPMENT SERIES

Hardcover 1496 pp 2005 ISBN 978-0-471-21384-0 €165.00/£130.00/CAD \$233.99/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-72878-8



Drug Safety Evaluation

SECOND EDITION

Shayne Cox Gad, *Gad Consulting Services, USA*; Editor

This new edition of *Drug Safety Evaluation* presents a road map for safety assessment as an integral part of the development of new drugs and therapeutics. Addressing specific approaches to evaluating hazards, including problems and solutions, the book covers the scientific

and philosophical bases for evaluation of specific concerns to provide both understanding and guidance for approaching new problems. This all-inclusive guide is of paramount interest to pharmaceutical scientists, toxicologists, drug safety scientists, academic researchers, and grad-level students.

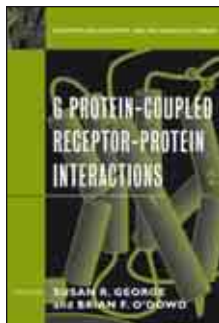
PHARMACEUTICAL DEVELOPMENT SERIES

Hardcover 1182 pp 2009 ISBN 978-0-470-25316-8 €165.00/£130.00/CAD \$234.00/USD \$195.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-46415-1

Drug Discovery Bundle

Shayne Cox Gad, *IBS, Raleigh, North Carolina*

Hardcover 3666 2008 ISBN 978-0-470-38788-7 €795.00/£617.00/CAD \$1109.99/USD \$925.00



G Protein-Coupled Receptor-Protein Interactions

Susan R. George, Brian F. O'Dowd, *both of Univ. of Toronto, Canada*; Editors; David R. Sibley, *National Institute Neurological Disorders, USA*

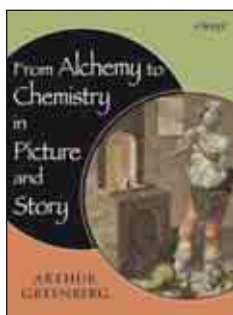
In the realm of pharmaceutical research, few advances have outstripped the role G protein coupled receptors (GPCRs) have come to play in the development of therapeutic agents. Now, in this exciting volume, you can sharpen your understanding of how GPCRs organize signal transduction and control intracellular activities.

Up-to-the-minute methodologies are covered and protocols are clearly presented in a uniform, easy-to-follow format. Among the many topics addressed are expression cloning, photoaffinity labeling, CRET, FRET, reconstitution, co-immunoprecipitation, and sandwich ELISA.

RECEPTOR BIOCHEMISTRY AND METHODOLOGY

Hardcover 352pp 2005 ISBN 978-0-471-23546-0 €165.00/£128.00/CAD \$230.99/USD \$192.50

Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-70746-2



From Alchemy to Chemistry in Picture and Story

Arthur Greenberg, *Univ. of New Hampshire, USA*

From Alchemy to Chemistry in Picture and Story takes readers on an illustrated tour of how chemistry developed over the ages. Integrating the contents of his two earlier books, *A Chemical History Tour* and *The Art of Chemistry*, the author has included over 350 high-quality reproductions of figures from rare

books spanning some 400 years of chemical publications included in his rare-book collection. The illuminating and entertaining essays that accompany each illustration explain the imagery's meaning and significance in the context of both historical scientific

Hardcover 664 pp 2007 ISBN 978-0-471-75154-0 €67.90/£53.50/CAD \$95.99/USD \$79.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-08524-0



Commercialization of Innovative Technologies

Bringing Good Ideas to the Marketplace

C. Joseph Touhill, Gregory Touhill, Thomas O'Riordan

Got a great idea for new technology? Let this expert guide be your blueprint for successful entrepreneurship—from building an innovation team to bringing a product to market. *Commercialization of Innovative Technologies* takes you through the complete lifecycle of product innovation, including

screening, funding, development, and commercialization. It gives you an edge as it focuses on three core areas that set the stage for successful commercialization: developing and managing an "innovation team" of inventors, investors, technologists, and entrepreneurs; building a portfolio that spreads risk; and leveraging input from technologists throughout the commercialization process.

Hardcover 252 pp 2008 ISBN 978-0-470-23007-7 €54.90/£43.50/CAD \$77.99/USD \$64.95



Microsystem Engineering of Lab-on-a-Chip Devices

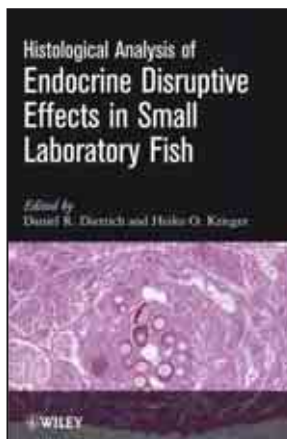
SECOND, REVISED AND ENLARGED EDITION

Oliver Geschke, Henning Klank, Pieter Telleman, *all of Technical Univ. of Denmark, Denmark*; Editors

With a focus on analytical applications in life sciences, this clearly written guide to microtechnology is filled with fast and automated analytical

procedures for practitioners working at a non-specialist level. Containing about 10 percent more material than its predecessor, this edition clearly illuminates the principles of the design and manufacture of lab-on-a-chip devices. Edited by an interdisciplinary team of scientists at one of the leading centers for microsystem research, it's the perfect reference for readers looking for concise practical approaches to microtechnology.

Hardcover 297 pp 2008 ISBN 978-3-527-31942-8 €95.00/£85.00/CAD \$167.99/USD \$140.00



Histological Analysis of Endocrine Disruptive Effects in Small Laboratory Fish

new

Daniel Dietrich, Heiko O. Krieger, *Editors*

Clarifying much of the inconsistency currently encountered in the scientific literature, this timely reference helps standardize the interpretation of results from aquatic bioassays and field observations by describing basic biological function and

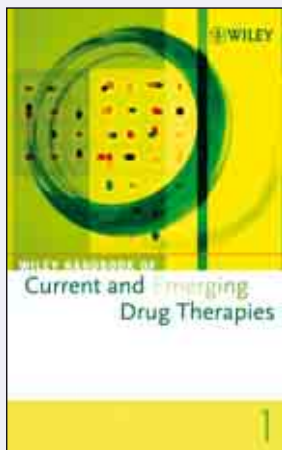
contrasting normal histology with histopathological conditions in a variety of fish species.

- Assembles the combined knowledge of some of the leading authorities in the field of small fish reproduction
- Provides guidance on the microscopic structure of living tissue and evaluation of the reproductive glands of small laboratory fish
- Includes state-of-the-art science along with sufficient anatomical and physiological background for understanding and interpreting test results

Hardcover w/CD-ROM 360 pp 2009 ISBN 978-0-471-76358-1

€99.90/£80.50/CAD \$144.00/USD \$120.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43179-5



Wiley Handbook of Current and Emerging Drug Therapies

VOLUMES ONE-FOUR

John Wiley & Sons, Inc.

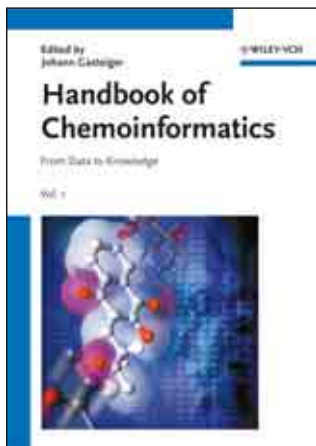
Here is a comprehensive reference focused on drug discovery and pharmaceutical research from the unique perspective of combining scientific and business aspects of today's biotechnology. Within every major therapeutic area, the *Wiley Handbook of Current*

and Emerging Drug Therapies offers a general overview of the etiology and pathophysiology of the important disease indications. It also provides a comprehensive analysis of currently approved drugs targeting these diseases, with information on mechanism of action, efficacy, side effects and future prospects. You'll also find product-by-product analyses of drugs currently in development, including mechanism of action, formulations, and detailed information on the status of clinical trials.

Hardcover 2664 pp 2006 ISBN 978-0-470-04098-0 €1149.00/£880.00/CAD \$1553.99/USD \$1295.00

Wiley Handbook of Current and Emerging Drug Therapies Volumes 5-8

Hardcover 3120 pp 2007 ISBN 978-0-470-04099-7 €1099.00/£863.00/CAD \$1553.99/USD \$1295.00



Handbook of Chemoinformatics

From Data to Knowledge

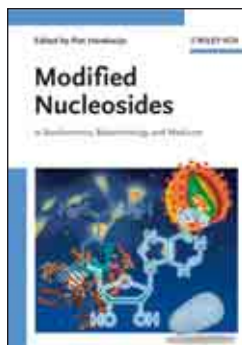
FOUR-VOLUME SET

Johann Gasteiger, *Univ. of Erlangen-Nuremberg, Germany*, Editor

Covering the application of computer-aided methods to chemical problems, such as structural databases, spectra interpretation, predicting chemical properties and molecular shapes, this four-volume work provides both

newcomers and advanced users as well as lecturers with a profound and comprehensive overview of this increasingly important field. In addition, tutorials teach future users how to use different chemoinformatic tools, while many aspects are treated in special supplementary chapters, such that even specialists learn of the latest developments and trends.

Hardcover 1930 pp 2003 ISBN 978-3-527-30680-0 €699.00/£595.00/CAD \$1211.99/USD \$1010.00
Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61827-9



Modified Nucleosides

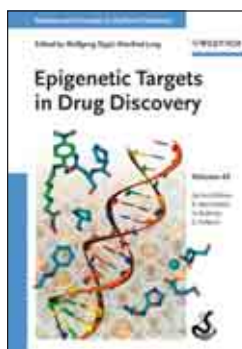
in Biochemistry, Biotechnology and Medicine

Piet Herdewijn, *Leuven Catholic Univ., Belgium*, Editor

Nucleosides are the building blocks for life, they are found in everything from DNA to RNA. Edited by one of the main driving forces behind the field's momentous rise in recent years, this one-stop reference is the first comprehensive resource to integrate recent advances in the field into its coverage. The first volume in this set addresses biochemical

aspects and applications, while the second volume is devoted to compounds with therapeutic potential. Broad section headings include a number of chapters that provide an expert examination of the use of modified nucleosides in biochemistry and biophysics, biotechnology, medical chemistry, and antitumorals and antivirals. Essential reading for every scientist working in this area.

Hardcover 684 pp 2008 ISBN 978-3-527-31820-9 €199.00/£170.00/CAD \$528.00/USD \$440.00



Epigenetic Targets in Drug Discovery

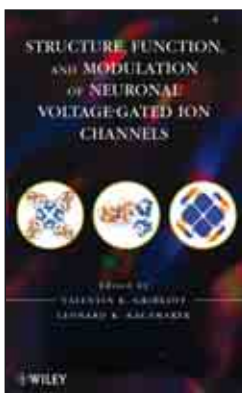
Wolfgang Sippl, *Univ. Halle-Wittenberg, Germany*; Manfred Jung, *Albert Ludwigs Univ., Germany*; Editors

Fueled by the expertise of a team of international specialist authors, this first reference on the booming topic covers everything a drug researcher needs to know about targeting epigenetic mechanisms of disease. After a general introduction, the second part of the book surveys current methodologies for finding

and validating drug candidates that act via epigenetic mechanisms. The third and final part systematically surveys known and suspected drug targets within the epigenetic machinery, including coverage of the first successful drug candidates available for these novel targets.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 314 pp 2009 ISBN 978-3-527-32355-5 €129.00/£110.00/CAD \$228.00/USD \$190.00



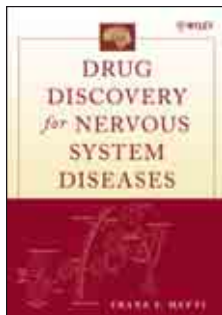
Structure, Function and Modulation of Neuronal Voltage-Gated Ion Channels

Valentin K. Gribkoff, Leonard K. Kaczmarek, Editors

Discussing voltage-gated ion channels and their importance in drug discovery and development, this wide-ranging book also includes reviews of the channel genome, the physiological bases of targeting ion channels in disease, the unique technologies developed for ion channel drug discovery, and the increasingly important role of ion channel screening in cardiac risk assess-

ment. It provides an important reference for research scientists and drug discovery companies.

Hardcover 475 pp 2009 ISBN 978-0-471-93013-6 €109.00/£83.50/CAD \$150.00/USD \$125.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-42990-7



Drug Discovery for Nervous System Diseases

Franz F. Hefti, *Rinat Neuroscience Corporation, USA*

An excellent text on drug discovery for psychiatric and neurological diseases. Chapters are divided into two major sections. The first section presents fundamentals of drug discovery, highlighting the modern techniques and approaches of drug discovery in biotech and pharmaceutical companies. Discussion of drug discovery for the major

nervous system diseases represents the second section of the book. Each chapter looks at a particular class of disease, beginning with a summary of current understanding of disease mechanism and treatment, followed by thorough discussion of novel targets and emerging drugs.

Paperback 319 pp 2004 ISBN 978-0-471-46563-8 €99.90/£80.50/CAD \$143.99/USD \$119.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-70781-3



New Drug Development

Design, Methodology, and Analysis

J. Rick Turner, *Campbell Univ., USA*

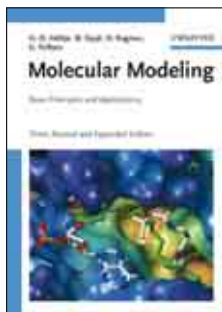
New Drug Development covers the fundamentals of statistical analyses for drug R&D and their applications in the context of pharmaceutical studies. In dissecting the topic from the early discovery phase to clinical trials and medical practice, the book provides an indispensable overview of an otherwise confusing and fragmented set of topics. Essentially, the work shows readers how to perform statistical analyses and how to use the

results to design methodologies further development.

STATISTICS IN PRACTICE

Hardcover 270 pp 2007 ISBN 978-0-470-07373-5 €94.90/£73.50/CAD \$131.99/USD \$110.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-17434-0



Molecular Modeling

Basic Principles and Applications

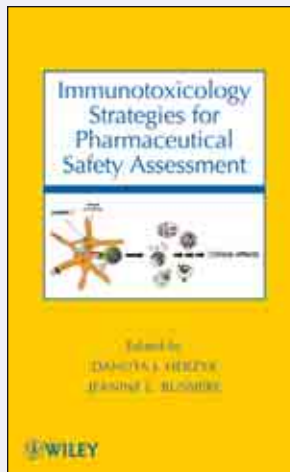
THIRD, REVISED AND EXPANDED EDITION

Hans-Dieter Höltje, *Univ. of Düesseldorf, Germany*; Wolfgang Sippl, *Univ. of Halle-Wittenberg, Germany*; Didier Rognan, *Univ. of Strasbourg, France*; Gerd Folkers, *ETH, Zurich, Switzerland*

Increasingly sophisticated modeling software requires at least a basic understanding of the method in order to avoid misinterpretation of the data generated. Ideal for beginners, this book explains the basics of modeling in a competent yet easily understandable way, with completely worked-out examples to guide readers to their first modeling experiments. This third edition features a new chapter on chemogenomics, reflecting the trend towards chemical biology, while the example of protein modeling is completely rewritten for a better feel of modeling complex biomolecules.

Paperback 320 pp 2008 ISBN 978-3-527-31568-0 €59.90/£55.00/CAD \$107.99/USD \$90.00

Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61477-6



Immunotoxicology Strategies for Pharmaceutical Safety Assessment

Danuta J. Herzyk, *Jeanine L. Bussiere, Editors*

This core reference explains current strategies for immunotoxicology pharmaceutical safety assessments that can reduce drug candidate attrition and streamline the development process. It thoroughly covers the testing needed to detect and characterize low-level immunotoxic hazards:

immunochemistry to address immunogenicity of biopharmaceuticals; molecular immunology to evaluate immune dysregulation at the subcellular level; and in vivo models of immune disorders to characterize potential impairment of host defense to infections, tumors, and autoimmune diseases.

Hardcover 402 pp 2008 ISBN 978-0-470-12238-9 €97.90/£76.95/CAD \$109.95/USD \$115.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-38638-5



High Content Screening

Science, Techniques and Applications

Steven A. Haney, *Department of Biological Technologies, Editor*

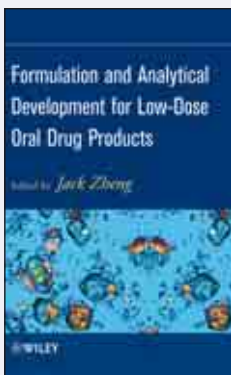
This book provides comprehensive coverage of high content screening (HCS) and covers varied and important subjects, including assay development, applications for drug discovery and development, cell culture, image processing, database architecture and man-

agement, and model systems for analysis. You also get detailed discussions on imaging in 3D, imaging of tissues for pharmacodynamic studies, and screening of both small molecule and RNAi libraries by HCS. With 87 detailed figures provided in full color on an accompanying CD, this is the premier reference on HCS for advanced students and practitioners alike.

Hardcover w/CD-ROM 424 pp 2008 ISBN 978-0-470-03999-1

€109.00/£83.50/CAD \$149.99/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-22986-6



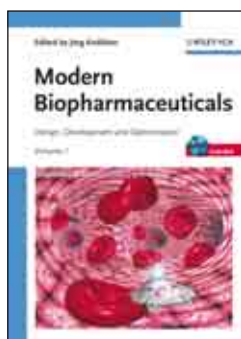
Formulation and Analytical Development for Low-Dose Oral Drug Products

Jack Zheng, Editor

This single reference combines formulation, analytical, and regulatory aspects of low-dose drug development into one book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a

discussion of regulatory requirements, this book explores the unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs.

Hardcover 461 pp 2009 ISBN 978-0-470-05609-7 €94.90/£73.50/CAD \$132.00/USD \$110.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-38636-1



Modern Biopharmaceuticals

Design, Development and Optimization

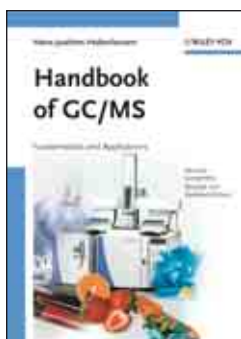
FOUR-VOLUME SET

Jörg Knäblein, Bayer Schering Pharma AG, Germany, Editor

These four volumes are unique in introducing readers to a comprehensive set of recently developed technologies, showing paradigm shifts in the health care system and reflecting these changes in industrial research. Here, the world's top scientists

and business leaders divulge their first-hand expertise, allowing you to participate in their recent achievements. The result is a testament to the importance of biotechnology in life science, a sure sign that *Modern Biopharmaceuticals* will fuel biotechnologies and help shape the industry of the future.

Hardcover w/CD-ROM 2022 pp 2005 ISBN 978-3-527-31184-2 €659.00/£560.00/CAD \$1139.99/USD \$950.00
Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-62098-2



Handbook of GC/MS

Fundamentals and Applications

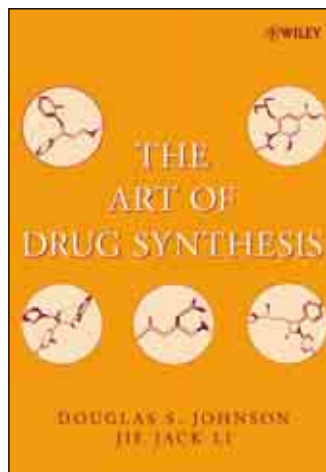
SECOND, COMPLETELY REVISED AND UPDATED EDITION

Hans-Joachim Hübschmann, Thermo Fisher Scientific, Germany

Now in its second edition, *Handbook of GC/MS, Fundamentals and Applications*, provides a comprehensive reference work for GC/MS. It offers broad coverage, from sample preparation to the evaluation of MS-Data, including library searches. This

new edition features an extended glossary as well as new sections on topics such as Automated Solvent Extraction (ASE), Hyphenation with Isotope Ratio MS, and the TOF-technique.

Hardcover 736 pp 2009 ISBN 978-3-527-31427-0 €179.00/£155.00/CAD \$312.00/USD \$260.00
Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61285-7



The Art of Drug Synthesis

best seller

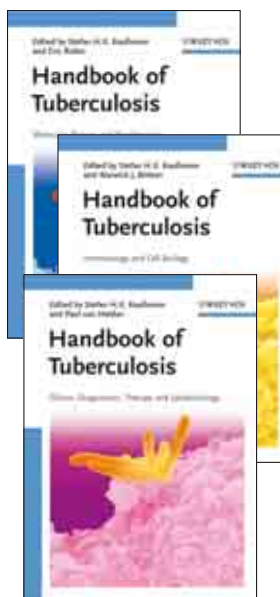
Douglas S. Johnson, Jie Jack Li, both of Pfizer Global Research and Development; Editors

"... highly illuminating just to dip into for a browse and to marvel at some of the excellent chemistry that goes on in the pharmaceutical industry."
—Chemistry World

Edited by prominent scientists working in drug discovery for Pfizer, *The Art of Drug Synthesis* shows how chemis-

try, biology, pharmacokinetics, and a host of other disciplines come together to produce successful medicines. Organized into 21 therapeutic areas, the contents include synthetic strategies and basic principles, illustrated by real-world examples of the development of such prominent drugs as Actos, Levaquin and Avelox, Diflucan, Ritalin and Strattera, Detrol, and many others. An introduction to each drug is provided, as well as a background to the biology, pharmacology, pharmacokinetics, and drug metabolism, followed by a detailed account of the drug synthesis.

Hardcover 296 pp 2007 ISBN 978-0-471-75215-8 €84.90/£66.95/CAD \$119.99/USD \$100.00
Online Book. See ad on this page 17 for ordering information. ISBN 978-0-470-13497-9



Handbook of Tuberculosis

Volume set

THREE-VOLUME SET

Stefan H. E. Kaufmann, Max-Planck-Inst. for Infection Biology, Germany; Paul van Helden, Univ. of Stellenbosch, South Africa; Eric Rubin, Harvard Medical School, USA; Warwick J. Britton, Centenary Inst. of Cancer Medicine and Cell Biology, Australia; Editors

Coinciding with the first TB therapies to enter clinical trials in 60 years, in three volumes this is the most comprehensive account of the latest developments in clinical, therapeutic, and basic research into the disease, presented by the most prolific researcher in the field.

Hardcover 1350 pp 2008 ISBN 978-3-527-31683-0 €449.00/£350.00/CAD \$719.99/USD \$600.00
Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-61161-4

CLINICS, DIAGNOSTICS, THERAPY, AND EPIDEMIOLOGY

Hardcover 311 pp 2008 ISBN 978-3-527-31888-9 €125.00/£110.00/CAD \$216.00/USD \$180.00

IMMUNOLOGY AND CELL BIOLOGY

Hardcover 460 pp 2008 ISBN 978-3-527-31887-2 €159.00/£140.00/CAD \$275.99/USD \$230.00

MOLECULAR BIOLOGY AND BIOCHEMISTRY

Hardcover 453 pp 2008 ISBN 978-3-527-31886-5 €195.00/£170.00/CAD \$341.99/USD \$285.00



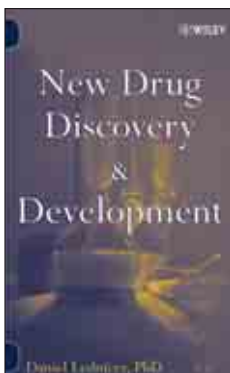
Genomics in Drug Discovery and Development

Dimitri Semizarov, Eric Blomme

This cutting-edge text introduces readers to the biomarker, pharmacogenomic, pharmacogenetic, and toxicogenomic toolboxes, four promising and rapidly growing areas of genomics research that have begun opening the door to personalized medicine solutions.

Hardcover 480 pp 2008 ISBN 978-0-470-09604-8
€97.90/£76.95/CAD \$138.00/USD \$115.00

Online Book. See ad on this page 17 for ordering information. ISBN 978-0-470-40977-0



New Drug Discovery and Development

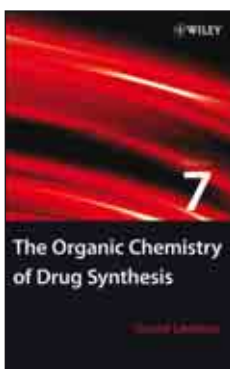
Daniel Lednicer, *Analytical Bio-Chemistry Laboratories, Inc., USA*

This practical reference puts all the vital information that drug researchers need right at their fingertips. It explores a myriad of therapeutic agents, organized into such areas as antibiotics, antihypertensive agents, steroids, central analgesics, cholesterol lowering drugs, and COX-2 nonsteroidal anti-inflammatory drugs. In

addition, useful case studies are provided on a variety of topics, such as the complex development of antihypertensive agents. The book also shows how the discovery of each new drug leads to the development of related compounds as companies race to enter the burgeoning market.

Hardcover 190 pp 2006 ISBN 978-0-470-00750-1 €89.90/£70.50/CAD \$125.99/USD \$105.00
Online Book. See ad on this page 17 for ordering information. ISBN 978-0-470-06827-4

best
seller



The Organic Chemistry of Drug Synthesis

VOLUME SEVEN

Daniel Lednicer, *Analytical Bio-Chemistry Laboratories, Inc., USA*

“... up-to-date with regard to the drugs presented... a good resource for experienced researchers in drug design...” —*Journal of the American Chemical Society*

The Organic Chemistry of Drug Synthesis, Volume Seven, focuses on the synthetic aspects of the pharmaceutical production.

The synthetic routes and strategies devised to prepare a pharmaceutically active agent are discussed in detail, utilizing common current drugs as examples. This series is respected among researchers and in academic settings for its relevance to the field, and each volume can stand as an independent work without need of familiarity with previous volumes.

ORGANIC CHEMISTRY SERIES OF DRUG SYNTHESIS

Hardcover 272 pp 2007 ISBN 978-0-470-10750-8 €109.00/£86.95/CAD \$155.99/USD \$130.00
Online Book. See ad on this page 17 for ordering information. ISBN 978-0-470-18067-9

Streamline your research in chemistry and fast track your career

ONLINE NOW

Access over **1,200 Chemistry books** online in an instant through Wiley InterScience OnlineBooks™ – providing you with a dynamic desktop library.

- Target the information you need, down to chapter level
- No waiting! Instant access to the leading research

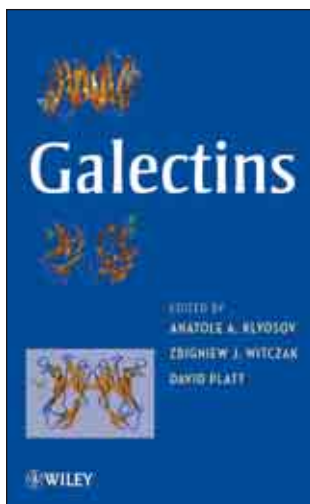
- Read and print PDF files of book chapters when and where you want



WILEY-BLACKWELL

Find out more at www.interscience.wiley.com/onlinebooks and contact your library to ensure you have access.

Fresh content sliced any way you like it



Galectins

Anatole A. Klyosov, Zbigniew J. Wityczak, David Platt, Editors

“The book is the first galectin book and contains a wealth of information... The chapters provide researchers with a solid overview of the state of the art in the various subjects and will be useful to many galectin researchers.” —*ChemBioChem*

Following a general introduction to the subject, this first-of-its-kind text covers galectins' structure and functions, ligand specificity, and molecular mechanisms of action, along with the other roles galectins play in tumor growth

and cancer, fibrosis, inflammation, and immunity. It then examines the effect galectins have on cell migration, angiogenesis, and chemoresistance, and describes new approaches to designing galectin inhibitors.

This is the premier reference on galectins for organic, medicinal, carbohydrate, and pharmaceutical chemists, biochemists, molecular and cell biologists, pharmacologists, and cancer researchers, and graduate-level students in these disciplines, as well as clinicians and drug developers.

Hardcover 280 pp 2008 ISBN 978-0-470-37318-7 €99.90/£80.50/CAD \$143.99/USD \$120.00
Online Book. See ad on this page 17 for ordering information. ISBN 978-0-470-37807-6

Design of Peptides and Proteins

Applications for Therapeutic Agents and Biomedical Research

Knud Jensen, Editor

WILEY-BLACKWELL

Design of Peptides and Proteins

new

Applications for Therapeutic Agents and Biomedical Research

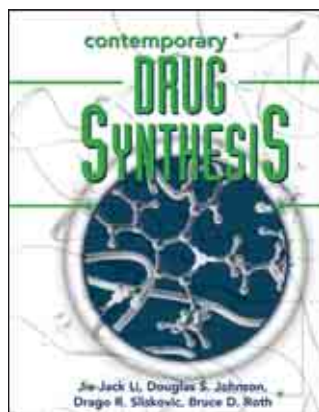
Knud Jensen, *Department of Natural Sciences, Editor*

Peptides serve as effective drugs in the clinic today. However the inherent drawbacks of peptide structures can limit their efficacy as drugs. To overcome this,

researchers are developing new methods to create tailor-made peptides and proteins with improved pharmacological properties.

Design of Peptides and Proteins provides an overview of the experimental and computational methods for peptide and protein design, with an emphasis on specific applications for therapeutics and biomedical research. An extended case study—the design of insulin variants—*Design of Peptides and Proteins* presents the state-of-the-art of this exciting new approach for therapeutics, with contributions from international experts.

Hardcover 312 pp 2010 ISBN 978-0-470-31961-1 €115.00/€90.00/CAD \$186.00/USD \$155.00



Contemporary Drug Synthesis

best seller

Jie Jack Li, Douglas S. Johnson, Drago R. Sliskovic, Bruce D. Roth, *all of Pfizer Global Research and Development, USA*

"... a very useful book... for ... pharmaceutical industry scientists ... [and] the larger medicinal and organic chemistry community..."

—*Journal of Medicinal Chemistry*

Authored by four prominent scientists working in drug discovery, this is one guide any practicing pharmaceutical scientist should own. Contents are organized by therapeutic areas and include synthetic strategies and basic principles as illustrated by prominent real-world drugs including Lipitor, Celebrex, Viagra, Releze, Prilosec, and many others. As such *Contemporary Drug Synthesis* is an integrated biological and chemistry text on drug synthesis for the entire drug discovery market that highlights both medicinal and process synthetic routes. It will aid researchers and other practitioners in optimizing the early development and the scale-up of elegant and economical synthetic routes that can ensure the commercial viability of new drugs.

Hardcover 240 pp 2004 ISBN 978-0-471-21480-9 €99.90/€80.50/CAD \$143.99/USD \$120.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-68674-3



Name Reactions of Functional Group Transformations

Jie Jack Li, *Pfizer Global Research and Development*; E. J. Corey, *Harvard Univ., USA*

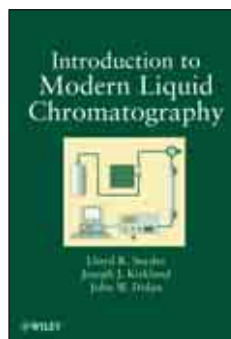
This comprehensive reference delivers an up-to-date account of 47 major classes of functional group transformations and also serves to interconnect them. The book includes reviews from leading scientists in their specialty areas—all organized uniformly, making it

easy to access information. Major topic areas include asymmetric synthesis, reduction, oxidation, olefination, amine synthesis, carboxylic acid derivatives synthesis, and miscellaneous functional group manipulations.

COMPREHENSIVE NAME REACTIONS

Hardcover 768 pp 2007 ISBN 978-0-471-74868-7 €129.00/€98.95/CAD \$177.99/USD \$148.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-17651-1



Introduction to Modern Liquid Chromatography

new

THIRD EDITION

Lloyd R. Snyder, *Technicon Instruments Corp.*; Joseph J. Kirkland, *E. I. du Pont de Nemours & Co.*; John W. Dolan, *LC Resources*

Introduction to Modern Liquid Chromatography gives readers expert advice on how HPLC is performed, the materials needed, and applications that are accessible to almost HPLC users, be they novices or experts. This third edition features new HPLC applications

and technologies including chiral compound separations and bioseparations, as well as an update of HPLC computer software and technology. This is a complete compendium of HPLC methods and applications written by practicing scientists and professors aimed at everyone at every levels who is engaged in the use of liquid chromatography.

Hardcover 906 pp 2009 ISBN 978-0-470-16754-0 €109.00/€83.50/CAD \$150.00/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-50818-3

Transporters as Drug Carriers

new

Transporters as Drug Carriers

Structure, Function, Substrates

Structure, Function, Substrates

Gerhard Ecker, Editors

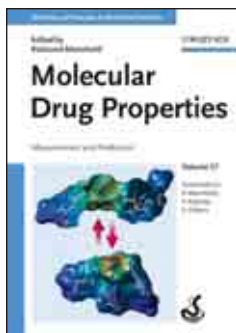
Gerhard Ecker, *Univ. of Vienna, Austria*; Peter Chiba, *Medical Univ. of Vienna, Austria*; Editors

This reference handbook is the first to provide a comprehensive overview, systematically characterizing all known transporters involved in drug elimination and resistance. Combining recent knowledge on all known classes of drug carriers,

from microbes to man, it begins with a look at human and mammalian transporters. This is followed by microbial, fungal and parasitic transporters with special attention given to transport across those physiological barriers relevant for drug uptake, distribution and excretion.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 416 pp 2009 ISBN 978-3-527-31661-8 €149.00/€130.00/CAD \$258.00/USD \$215.00



Molecular Drug Properties

Measurement and Prediction

Raimund Mannhold, Univ. of Düsseldorf, Germany; Hugo Kubinyi, Univ. of Heidelberg, Germany; Gerd Folkers, ETH Zürich, Switzerland; Series Editors

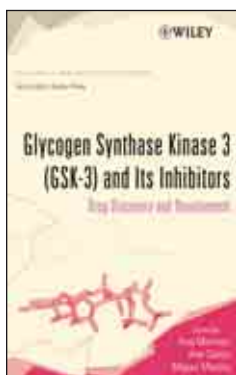
Following an introduction to global drug properties and their impact on drug research, screening and combinatorial chemistry libraries, this handbook demonstrates the best and fastest way to estimate

those properties most relevant for the efficiency and pharmacokinetic performance of a drug molecule: lipophilicity, solubility, electronic properties and conformation.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 502 pp 2008 ISBN 978-3-527-31755-4 €145.00/£125.00/CAD \$239.99/USD \$200.00

Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-62128-6



Glycogen Synthase Kinase 3 (GSK-3) and Its Inhibitors

Drug Discovery and Development

Ana Martinez, Ana Castro, Miguel Medina, Editors

Gathering and systematically analyzing relevant, up-to-date information about GSK-3 and its known inhibitors, this book will prove valuable to researchers interested in drug design and development, especially those directly involved in the fascinating world of GSK-3. Of particular value is the book's coverage of GSK-3 basics like cell

biology. It also addresses more advanced topics such as GSK-3 as a drug target in treating such diseases as Alzheimer's, bipolar disorder, and cancer, and the development of GSK-3 inhibitors with assay development and animal models.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 346 pp 2006 ISBN 978-0-471-77001-5 €109.00/£86.95/CAD \$155.99/USD \$130.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-05217-4



Guidebook for Drug Regulatory Submissions

Sandy Weinberg

Does the high-stakes process of submitting drug documents and applications for regulatory review intimidate you? This book provides regulatory professionals with the key tools necessary to submit major documents to the United States Food and Drug Administration. The book consists of 13 chapters, including an introductory and conclusion chapter and

11 units, each consisting of an introductory essay, submission checklist, evaluation checklist giving guidance on FDA criteria, and copies of relevant FDA documents.

Hardcover 379 pp 2009 ISBN 978-0-470-37138-1 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-45618-7



Toxicogenomics

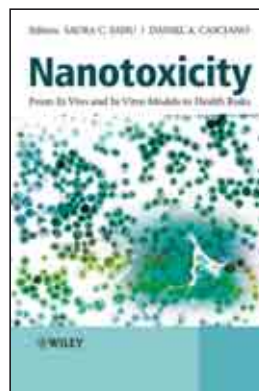
A Powerful Tool for Toxicity Assessment

Saura Sahu, U.S. Food and Drug Administration, Editor

Toxicogenomics is a guide to this emerging field and its key techniques. Combining genomics with toxicology, toxicogenomics is a new analytical tool by which the toxicity of a substance can be assessed. The technique has wide applications in quantitative risk assessment of food, drugs and other products and can be used to accelerate the process

of drug development considerably. This title provides up-to-date state-of-the-art information and discusses the potential link between toxicology, genetics and human diseases making this book useful to investigators in a wide variety of disciplines and in multi-disciplinary teams. Some of the areas covered include including mechanistic toxicogenomics, analysis and interpretation of the data and the principles of data mining, design issues and sources of variability in toxicogenic assays. It will also cover the applications in nutrigenomics, drug discovery and its use in the regulatory environment.

Hardcover 422 pp 2008 ISBN 978-0-470-51823-6 €119.00/£95.00/CAD \$228.00/USD \$190.00



Nanotoxicity

From In Vivo and In Vitro Models to Health Risks

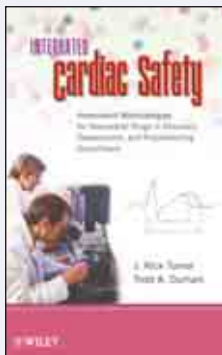
Daniel Casciano, Univ. of Arkansas-Medical Science; Saura Sahu, U.S. Food and Drug Administration; Editors

Nanotoxicity, From In Vivo and In Vitro Models to Health Risks, affords readers up-to-date state-of-the-art information presented by recognized experts in this emerging field in toxicology. It discusses the safety evaluation of nanomaterials in foods, drugs, medical

devices, cosmetics, and other regulated products and its use in risk analysis for potential regulatory use. This is a valuable authoritative source of information for readers from a wide range of disciplines such as toxicology, pharmacology, drug toxicity, and food and environmental sciences, and is sure to become a well-thumbed addition to your professional library.

Hardcover 656 pp 2009 ISBN 978-0-470-74137-5 €159.00/£125.00/CAD \$234.00/USD \$195.00

new



Integrated Cardiac Safety

Assessment Methodologies for Noncardiac Drugs in Discovery, Development, and Postmarketing Surveillance

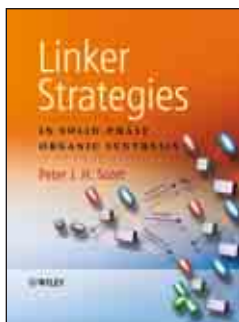
J. Rick Turner, Campbell Univ.; Todd A. Durham

Integrated Cardiac Safety outlines an effective strategy that lets researchers in drug discovery and development better assess the cardiac safety of drugs. It entails the use and integration of the methodologies used to assess cardiac safety during the full life cycle of drug development from discovery and design through to postmarketing

surveillance. Moreover, the integrated cardiac safety approach demonstrates the benefit of integrating proarrhythmic, generalized, and behavioral cardiac safety issues rather than treating them separately. The book concludes with chapters on medication errors and an examination of future trends in drug safety.

Hardcover 470 pp 2008 ISBN 978-0-470-22964-4 €67.90/£53.50/CAD \$95.95/USD \$79.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-41129-2



Linker Strategies in Solid-Phase Organic Synthesis

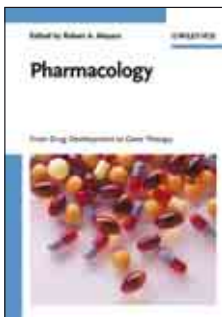
new

Peter Scott, Univ. of Michigan Medical School; Editor

Linker Strategies in Solid-Phase Organic Synthesis takes the reader through the evolution of linker units from their genesis in solid-supported peptide chemistry to the cutting-edge diversity linker units that are defining a new era of solid phase synthesis. Individual linker classes are covered in easy-to-follow chap-

ters written by experts in their respective fields that together constitute a comprehensive guide to linker technology while simultaneously serving as a handbook of synthetic transformations that are now possible on solid supports.

Hardcover 680 pp 2010 ISBN 978-0-470-51116-9 €195.00/£150.00/CAD \$246.00/USD \$205.00



Pharmacology

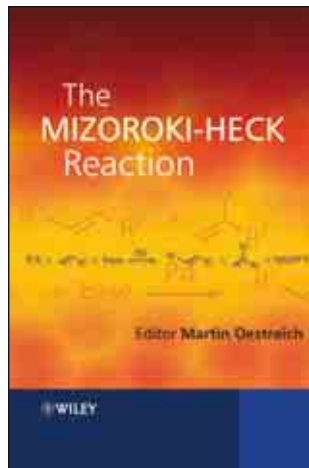
From Drug Development to Gene Therapy

Robert A. Meyers, Ramtech Ltd., USA, Editor

A carefully gleaned collection of articles on pharmacology from the acclaimed R.A. Meyer's *Encyclopedia of Molecular Cell Biology and Molecular Medicine*, this two-volume set covers general aspects of drug development. Divided into four main sections, this attractive handbook also covers essential fields such as cancer and gene therapy. The articles are uniformly structured for

ease of use and carefully designed to serve readers of all levels of expertise. Each chapter includes a glossary of the most important keywords, a concise summary of the article and a comprehensive literature references.

Hardcover 1126 pp 2008 ISBN 978-3-527-32343-2 €349.00/£250.00/CAD \$599.99/USD \$500.00



The Mizoroki-Heck Reaction

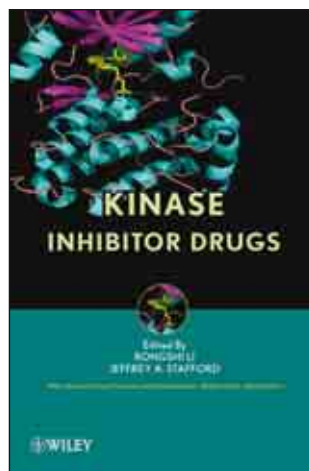
Martin Oestreich, Institut für Organische Chemie, Editor

The first dedicated volume on this pivotal reaction, *The Mizoroki-Heck Reaction* provides a comprehensive summary of Heck chemistry, including: current mechanistic understanding; catalyst development and ligand design; inter- and intramolecular Heck reactions; and regio-, diastereo-, and enanti-

oselective variants. Readers will discover details on how to create carbon-carbon bonds and complex carbon skeletons in a highly controlled way, making this a key resource for organic chemists and advanced undergraduate and postgraduate organic chemistry students.

Hardcover 608 pp 2009 ISBN 978-0-470-03394-4 €119.00/£95.00/CAD \$204.00/USD \$170.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-71607-6



Kinase Inhibitor Drugs

new

Rongshi Li, Jeffrey A. Stafford

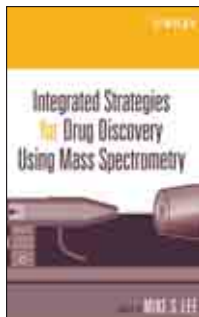
Kinase Inhibitor Drugs covers a wide and comprehensive range of topics about kinase-targeted inhibitors in cancer therapy, one of the hottest drug targets in modern drug discovery. It brings together and summarizes important information and advances in the field to let researchers and drug

discoverers easily discern the state of targeted cancer drug discovery. Complete with case studies of approved kinase inhibitors or those in late-phase clinical trials for cancer therapy, this is an ideal reference for pharmaceutical scientists developing small-molecule and biotech drugs "for treating" cancer.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover w/Website 528 pp 2009 ISBN 978-0-470-27829-1

€109.00/£83.50/CAD \$150.00/USD \$125.00



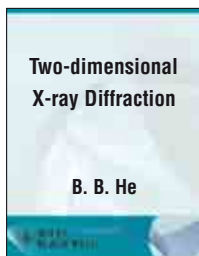
Integrated Strategies for Drug Discovery Using Mass Spectrometry

Mike S. Lee, *Milestone Development Services*

This book clearly explains how drug discovery and mass spectrometry are interconnected. It gives you a thorough review of current analytical approaches, industry applications, and strategies in drug discovery. The topics represent

current industry benchmarks in specific drug discovery activities that deal with proteomics, biomarker discovery, metabonomic approaches for toxicity screening, lead identification, compound libraries, quantitative bioanalytical support, biotransformation, reactive metabolite characterization, lead optimization, pharmaceutical property profiling, sample preparation strategies, and automation.

Hardcover 568 pp 2005 ISBN 978-0-471-46127-2 €119.00/£93.50/CAD \$167.99/USD \$140.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-72103-1



Two-dimensional X-ray Diffraction

B. B. He

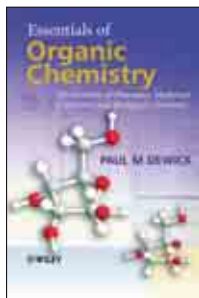
Two-dimensional X-ray Diffraction

B. B. He

Written by one of the field's pioneers, this useful guide covers the fundamentals, experimental methods and applications of two-dimensional x-ray diffraction, including geometry convention, x-ray source and optics, two-dimensional detectors, diffraction data interpretation, and

configurations for various applications, such as phase identification, texture, stress, microstructure analysis, crystallinity, thin film analysis, and combinatorial screening. Experimental examples in materials research, pharmaceuticals, and forensics are also given. This will prove to be a key resource to researchers in materials science, chemistry, physics, and pharmaceuticals, as well as graduate-level students in these areas.

Hardcover 440 pp 2009 ISBN 978-0-470-22722-0 €94.90/£73.50/CAD \$138.00/USD \$115.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-50264-8



Essentials of Organic Chemistry

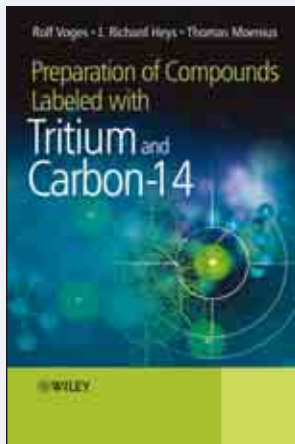
For Students of Pharmacy, Medicinal Chemistry and Biological Chemistry

Paul M. Dewick, *Univ. of Nottingham, UK*

Essentials of Organic Chemistry is an accessible introduction to the subject for students of pharmacy, medicinal chemistry, and biological chemistry. Providing a thorough grounding in fundamental chemical principles, the book

focuses on key elements of organic chemistry and the carefully chosen material is illustrated with the extensive use of pharmaceutical and biochemical examples. This informal text includes a bevy of useful examples and stresses the understanding and predicting of reactivity over the use of synthetic methodologies.

Paperback 710 pp 2006 ISBN 978-0-470-01666-4 €44.90/£34.95/CAD \$83.99/USD \$70.00



Preparation of Compounds Labeled with Tritium and Carbon-14

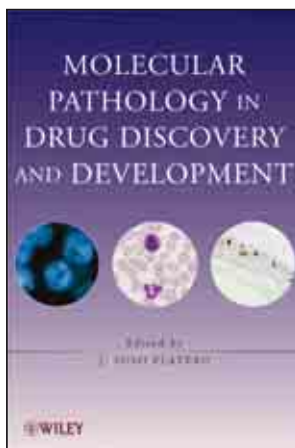
Rolf Voges; J. Richard Heys; Thomas Moenius, *Novartis Pharma*

Compounds tagged with carbon-14 and tritium are critical tools in research in biomedical sciences, discovery and development of pharmaceuticals and agrochemicals, and investigations into the nature of chemical reactions and the ways living organisms incorporate and modify biological components.

Preparation of Compounds Labeled with Tritium and Carbon-14 for Application in Life Sciences is a comprehensive, authoritative and up-to-date discussion of the strategies for the preparation of compounds labeled with carbon-14 and tritium. It contains up-to-date synthetic strategies; basic knowledge on the preparation of labelled starting materials and essential equipment; and recommendations for the selection of appropriate labelling positions and for the appropriate use of labelled compounds—which isotope and which labelling position to use for which purpose.

Preparation of Compounds Labeled with Tritium and Carbon-14 for Application in Life Sciences is an essential guide to the specialist strategies and tactics used by chemists to prepare compounds tagged with the radioactive atoms carbon-14 and tritium.

Hardcover 682 pp 2009 ISBN 978-0-470-51607-2 €159.00/£125.00/CAD \$240.00/USD \$200.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-74344-7



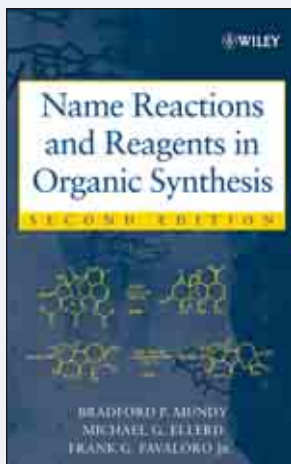
Molecular Pathology in Drug Discovery and Development

J. Suso Platero, *Editor*

The pharmaceutical industry is looking for new ways to better identify populations that will react positively to new drugs, and molecular pathology can fill that need. *Molecular Pathology in Drug Discovery and Development* is an authoritative overview of molecular pathology and its applications. Successive chapters are presented

as steps in the drug development process to illustrate and emphasize the differing areas where molecular pathology plays a role. Coverage includes early discovery uses of molecular pathology, toxicology-specific applications, the uses of molecular pathology in early clinical trials, the current uses of molecular pathology in the life cycle management of drugs, and molecular pathology from the point of view of the contract research organizations.

Hardcover 352 pp 2009 ISBN 978-0-470-14559-3 €97.90/£76.95/CAD \$138.00/USD \$115.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-47595-9



Name Reactions and Reagents in Organic Synthesis

best
seller

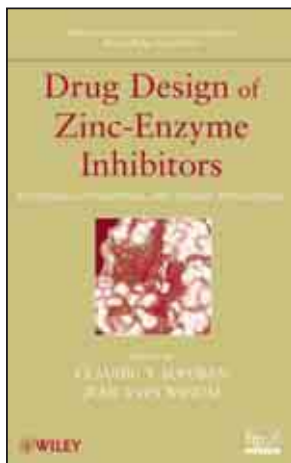
SECOND EDITION

Bradford P. Mundy, *Colby College, USA*; Michael G. Ellerd, *Montana State Univ., USA*; Frank G. Favaloro Jr.

This second edition of *Named Reactions and Reagents in Organic Synthesis* is the premier name resource in the field. Chemists will find it a handy resource for navigating the web of named reactions

and reagents. Reactions and reagents are listed alphabetically, followed by relevant mechanisms, experimental data (including yields where available), and references to the primary literature. Three indices based on reagents and reactions, starting materials, and desired products, make it remarkably easy to locate the exact reference you need. Organic chemistry professors, graduate students, and undergraduates, as well as chemists working in industrial, government, and other laboratories, will all find this book to be an invaluable source of quick information.

Hardcover 904 pp 2005 ISBN 978-0-471-22854-7 €97.90/£76.95/CAD \$137.99/USD \$115.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-73987-6



Drug Design of Zinc-Enzyme Inhibitors

new

Functional, Structural, and Disease Applications

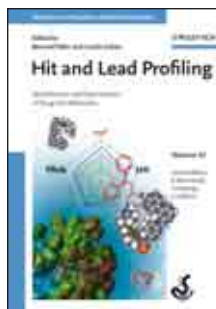
Claudiu T. Supuran, *Univ. degli Studi*; Jean-Yves Winum, *Univ. of Montpellier*; Editors

Novices and researchers new to the field will find this book to be a great resource on zinc enzymes, some of which were intensively studied for more than six decades and translated into model success stories of the pharmaceutical

industry. Up-to-date overviews on the major drug targets of the field are presented, showing the structural basis for catalysis, binding of inhibitors and activators, and their clinical applications. Emergent roles of some recently discovered isozymes in cancer, obesity, epilepsy, pain management, and malaria are also introduced, together with the most recent achievements in drug design from both academia and industry.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover w/Website 1040 pp 2009 ISBN 978-0-470-27500-9
€165.00/£130.00/CAD \$234.00/USD \$195.00



Hit and Lead Profiling

new

Identification and Optimization of Drug-like Molecules

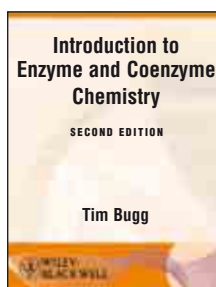
Bernard Faller, *Novartis Institutes for BioMedical Research, Switzerland*; Laszlo Urban, *Novartis Institutes for BioMedical Research, USA*; Editors

Addressing both drug efficiency and drug safety, this practical reference shows how each aspect shapes the key decisions on which the entire drug development process hinges. The result is a tool-

box for assessing the risk/benefit ratio for any novel compound. Following an introduction to the necessities of filtering and risk assessment, the two equally important aspects of pharmacological (ADME) and safety (toxicity) profiling are covered in separate parts. A final segment is devoted to organ-specific toxicity assays for the liver, heart, kidney, and blood, as well as profiling for autoimmune reactions.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 480 pp 2009 ISBN 978-3-527-32331-9 €159.00/£140.00/CAD \$252.00/USD \$210.00



Introduction to Enzyme and Coenzyme Chemistry

SECOND EDITION

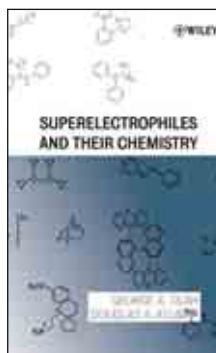
Tim Bugg, *Univ. of Warwick, UK*

"The well-chosen topics provide a highly readable, coherent introduction to enzyme chemistry."
—*Journal of Enzyme Inhibition and Medicinal Chemistry*

This latest edition of the establish classic has been thoroughly updated to include information

on the most recent advances in our understanding of enzyme action. A major new feature is the inclusion of two-color figures of the active sites of enzymes discussed in the text, in order to illustrate the interplay between enzyme structure and function. Problems, with outline answers, at the end of each chapter give readers the chance to check their understanding of the material.

Paperback 304 pp 2004 ISBN 978-1-4051-1452-3 €47.90/£37.50/CAD \$83.99/USD \$70.00



Superelectrophiles and Their Chemistry

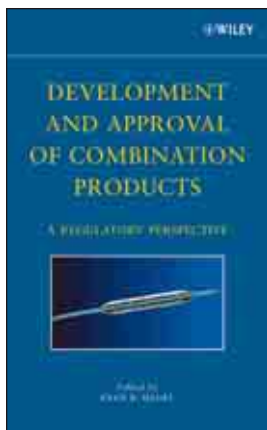
George A. Olah, *Univ. of Southern California*; Douglas A. Klumpp

Superelectrophiles and Their Chemistry contains, for the first-time, a discussion of the basics of this emerging field of organic chemistry, along with tools that help the reader apply the chemistry. Specific tools include an evaluation of the ways to increase the strength of electrophiles, the classification of superelectrophiles, the solvation issues, and a review of methods for studying superelec-

trophilicity with details of the superelectrophiles that have been identified and studied. Additional information includes substituent effects in the activation of superelectrophiles, the solvation in chemical reactions, and an insightful look into future applications.

Hardcover 301 pp 2007 ISBN 978-0-470-04961-7 €119.00/£93.50/CAD \$167.99/USD \$140.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-18512-4



Development and Approval of Combination Products

A Regulatory Perspective

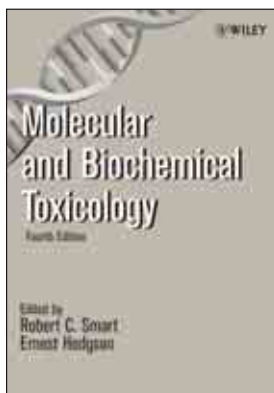
Evan B. Siegel, Editor

This book covers combination drug product development in preclinical, clinical, and manufacturing stages and ties these perspectives together with a regulatory underpinning that leads to successful product development and FDA approval. It describes the modern, integrated approach

to drug-device, biologic-device, drug-drug, and biologic-biologic product development. It presents the basic regulatory principles of combination products, and reviews manufacturing and controls, preclinical testing models, pharmacology, clinical testing, regulatory submissions, FDA review, and approvals.

Case studies involving such actual combination products as Mylotarg[®], Herceptin[®], and HercepTest[®] help you better understand how to implement the author's practical guidelines. References at the end of each chapter enable you to find more information on any stage of the development, manufacturing and approval processes.

Hardcover 216 pp 2008 ISBN 978-0-470-05094-1 €67.90/£33.50/CAD \$95.99/USD \$79.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-37107-7



Molecular and Biochemical Toxicology

FOURTH EDITION

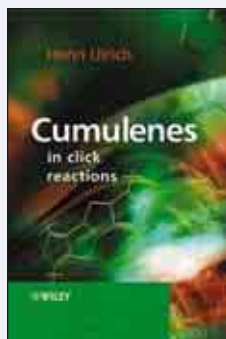
Robert C. Smart; Ernest Hodgson, North Carolina State Univ., USA; Editors

Over the course of thirty years and three editions, *Introduction to Biochemical Toxicology* has helped researchers and students understand the underlying biochemical, molecular, and

cellular mechanisms through which toxicants produce adverse responses. The fourth edition, now titled *Molecular and Biochemical Toxicology*, reflects the latest advances in molecular and cellular biology as well as genomic sciences that have deepened our understanding of mechanistic toxicology.

Clear and comprehensive, this book covers a range of dynamic aspects in biochemical and molecular toxicology. Compiled and authored by a diverse group of experts, it guides students and professional toxicologists through a broad range of issues and helps solve problems of basic toxicology questions, integrating myriad fields from nutrition to genetics to toxicology. This latest edition adds timely and thorough coverage of molecular toxicology, like proteomics, toxicogenomics, metabolomics, bioinformatics, and pharmaco (toxico) genetics.

Hardcover 944 pp 2008 ISBN 978-0-470-10211-4 €109.00/£33.50/CAD \$150.00/USD \$125.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-28525-1



Cumulenes in Click Reactions

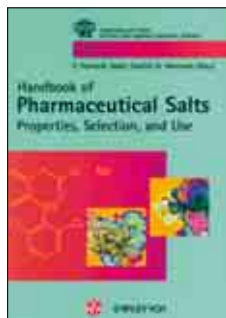
new

Henri Ulrich, Chemical Consultant, Guilford, Connecticut

Cumulenes in Click Reactions contains an all-inclusive list of cumulene systems and their reactions, with an emphasis on their click-like nature. The chapters are structured according to the number of carbon atoms in the system, and include coverage of one-carbon cumulenes, such as sulfines, sulfenes, thiocarbonyl, and 1-aza-2-azoniaallene salts. Coverage also addresses

two-carbon cumulenes, including carbon oxides, carbon sulfides, and carbon nitrides; 1,2-dicarbon cumulenes, such as ketenes, thioketenes, and ketenimines; 1,3-dicarbon cumulenes, including thiocarbonyl S-ylides, 2-azaallene salts, and 1-oxa-3-azoniabutatriene salts, and 1,2,3-tricarbon cumulenes, such as allenes, butatrienes, and higher cumulenes.

Hardcover 512 pp 2009 ISBN 978-0-470-77932-3 €159.00/£120.00/CAD \$246.00/USD \$205.00



Pharmaceutical Salts

Properties, Selection, and Use

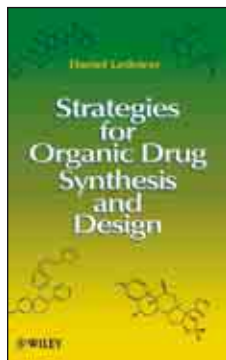
P. Heinrich Stahl, Camille G. Wermuth, Editors

"In a nutshell, this long-overdue volume belongs on the personal shelf of every pharmaceutical scientist working with new chemical entities."
—**Pharmaceutical Development and Technology**

Comprehensive in scope, this up-to-date volume is an instructive companion for all scientists involved in the research and development of drugs, especially of pharmaceutical dosage forms.

The editors have taken care to address every conceivable aspect in choosing and preparing pharmaceutical salts.

Paperback 388 pp 2008 ISBN 978-3-90639-058-1 €89.00/£80.00/CAD \$156.00/USD \$130.00



Strategies for Organic Drug Synthesis and Design

new

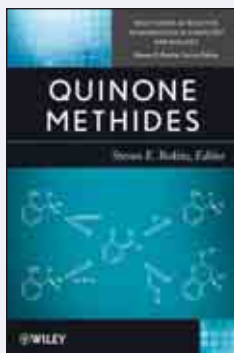
SECOND EDITION

Daniel Lednicer, Analytical Bio-Chemistry Laboratories, Inc., USA

Guiding readers through tested-and-proven strategies for designing and conducting drug synthesis, this handbook addresses the latest developments in the field, including new examples of drug synthesis from major pharmaceutical companies. Examples are selected from the multivolume work, *The Organic Chemistry of Drug Synthesis*.

This new, expanded edition focuses on the organic chemistry used for drug preparation. Drugs were selected based on the illustrative value of the chemistry used for their synthesis. Structures in chemical schemes have been carefully drawn to clarify individual reactions.

Hardcover 682 pp 2008 ISBN 978-0-470-19039-5 €115.00/£90.50/CAD \$162.00/USD \$135.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-39961-3



Quinone Methides

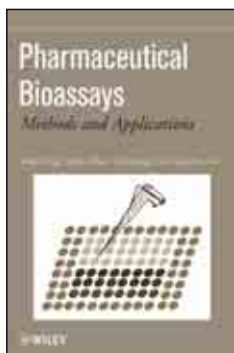
S. E. Rokita

new

Quinone methides have cationic and anionic centers, providing an advantageous ability to react with both nucleophiles and electrophiles. These reactive intermediates are of particular interest and have found wide applications in organic synthesis. Featuring contributions from world-renowned leaders in the field, *Quinone Methides* covers a broad range of topics, including theoretical treatment, generation and detection of the

intermediates, characterization, and applications in chemistry and biochemistry (including biological reactivity).

WILEY SERIES OF REACTIVE INTERMEDIATES IN CHEMISTRY AND BIOLOGY
Hardcover 431 pp 2009 ISBN 978-0-470-19224-5 €109.00/£83.50/CAD \$150.00/USD \$125.00



Pharmaceutical Bioassays

Methods and Applications

Shiqi Peng, Chunying Cui, Ming Zhao, Guohui Cui

new

This book covers the methods and applications of bioassays in pharmaceutical science to quantify drug activity and evaluate the validity of models. It demonstrates the numerous systems available and that each system interprets the activity of drug molecules in different ways. The authors

discuss the various models put forward to link the experimental observations and the events taking place on a cell or molecular level between the drug and experimental object, providing the principal and technological guide for successful research of drug research and clinical therapy.

Hardcover 470 pp 2009 ISBN 978-0-470-22760-2 €109.00/£83.50/CAD \$150.00/USD \$125.00



Peripheral Receptor Targets for Analgesia

Novel Approaches to Pain Treatment

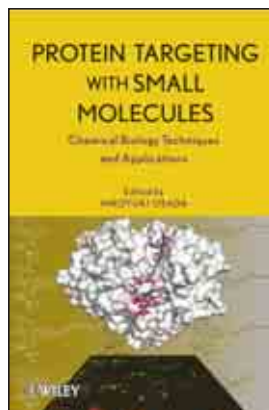
Brian E. Cairns

new

Peripheral Receptor Targets for Analgesia examines the role of peripheral receptor mechanisms in the transduction of pain, offering a framework for the development of new and effective rationally designed analgesic drugs and therapies. In a single text, the book uniquely brings together the diverse body of work on the subject. This

comprehensive reference aids pharmaceutical scientists, pharmacologists, and neuroscientists who are developing drugs and researching pain in achieving selectivity in drug therapy for more efficient pain management.

Hardcover 560 pp 2009 ISBN 978-0-470-25131-7 €115.00/£90.50/CAD \$162.00/USD \$135.00



Protein Targeting with Small Molecules

Chemical Biology Techniques and Applications

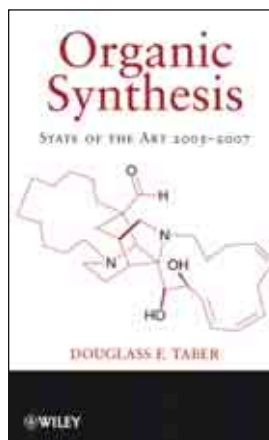
Hiroyuki Osada

new

New opportunities to use small molecules both as probes for deciphering the control mechanism of living organisms and as potential leads for developing new therapeutics for disease treatment are ushering in a new era of chemical biology. Summarizing the major issues and approaches to

chemical biology and the applications in drug design and development that the use of small molecules promises, *Protein Targeting with Small Molecules* provides chemical biologists and medicinal chemists with a detailed review of chemical genomics, target profiling immobilization technology, detection methods, and much more.

Hardcover 312 pp 2009 ISBN 978-0-470-12053-8 €84.90/£66.95/CAD \$119.95/USD \$99.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-49501-8



Organic Synthesis

State of the Art 2005-2007

Douglass F. Taber

The reactions and organic compounds presented in the first volume of this innovative series are critical for researchers in the fields of pharmaceuticals, fine chemicals, polymers and materials, agricultural and food science, to name a few. This one volume provides all these researchers with the most important developments in organic synthesis in one place; there is no need to search through hundreds of journal articles

to stay on top of the field. The more than 100 reactions covered in this first volume include:

- Heterocycle Construction by Grubbs Metathesis
- Enantioselective C-C Bond Construction
- Organic Reactions in Ionic Liquids

Featuring subject and author indices, *Organic Synthesis* is the most convenient way to stay abreast of the field's most important developments.

ORGANIC SYNTHESIS: STATE OF THE ART

Hardcover 228 pp 2008 ISBN 978-0-470-28849-8 €115.00/£90.50/CAD \$162.00/USD \$135.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-38597-5

Organic Reactions

VOLUME 73

Scott E. Denmark, *Univ. of Illinois, Urbana-Champaign*

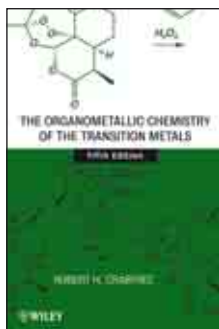
A comprehensive resource on organic reactions, the volumes of *Organic Reactions* are collections of chapters, each devoted to a single reaction or a definitive phase of a reaction, of wide applicability. The subjects are presented from the preparative viewpoint and particular attention is given to limitations, interfering influences, effects of structure and the selection of experimental techniques.

ORGANIC REACTIONS

Hardcover 624 pp 2009 ISBN 978-0-470-43690-5 €119.00/£93.50/CAD \$168.00/USD \$140.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-43812-1

new



The Organometallic Chemistry of the Transition Metals

FIFTH EDITION

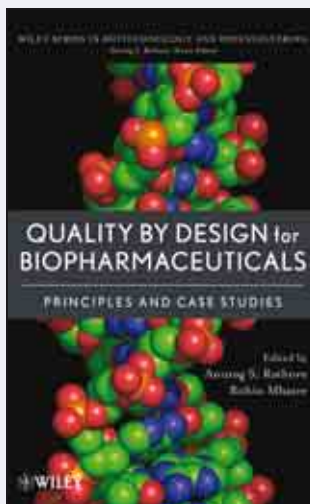
Robert H. Crabtree, *Yale Univ., USA*

Fully updated and expanded to reflect recent advances, the Fifth Edition of the classic text provides students and professional chemists with a comprehensive introduction to the principles and general properties of organometallic compounds and includes practical information on reaction mechanisms and

contemporary applications. With an increased focus on organic synthesis applications, nanoparticle science, and green chemistry, the new edition brings the entire subject up to date.

Hardcover 505 pp 2009 ISBN 978-0-470-25762-3 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-46366-6



Quality by Design for Biopharmaceuticals

Principles and Case Studies

Anurag S. Rathore, Rohin Mhatre, Editors

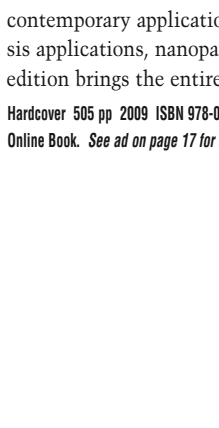
This is the first book that explains the underlying concepts of Quality by Design (QbD) and the practical aspects of implementing QbD in biopharmaceutical manufacturing. The authors pursue a systematic approach that leads the reader through the process, outlining the understanding of the critical quality attributes of the molecule, the development of the design space to meet the quality attributes, filing of the QbD information in regulatory documents, risk management, and the application of QbD. Complete with real-world case studies, this is a core reference for scientists in the biopharmaceutical industry, regulatory agencies, and for students.

WILEY SERIES IN BIOTECHNOLOGY AND BIOENGINEERING

Hardcover 288 pp 2009 ISBN 978-0-470-28233-5 €97.90/£76.95/CAD \$138.00/USD \$115.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-46631-5

new



Medicinal Chemistry

An Introduction

SECOND EDITION

Gareth Thomas, *Univ. of Portsmouth, UK*

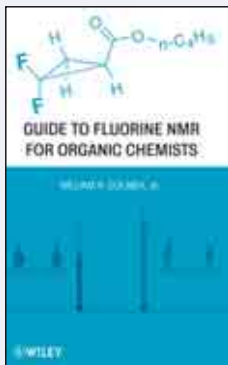
"The many strengths of this introductory text include its seamless integration of biochemistry and pharmacology to direct drug discovery." —*Journal of Medicinal Chemistry*

Provides a comprehensive, balanced introduction to this evolving, multidisciplinary subject. The book carefully explains fundamental principles, assuming little in the way of prior knowledge. Opens with a broad overview of medicinal chemistry followed by chapters that cover the principal methods used in drug design and the isolation of drugs from natural sources. Subsequent chapters discuss more specialised aspects of medicinal chemistry and outline drug and analogue synthesis, development, and production. Each chapter contains self-assessment questions, numerous examples, and a wide variety of applications.

Hardcover 646 pp 2008 ISBN 978-0-470-02597-0 €99.90/£80.00/CAD \$191.99/USD \$160.00

Paperback 646 pp 2008 ISBN 978-0-470-02598-7 €37.90/£29.95/CAD \$71.99/USD \$60.00

best seller



Guide to Fluorine NMR for Organic Chemists

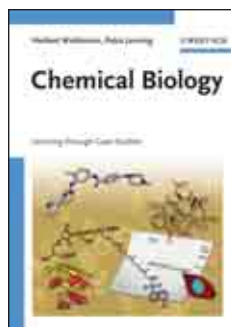
new

W.R. Dolbier

Handbook of Fluorine NMR for Organic Chemists is your one-stop resource for understanding fluorine and its dramatic effect in spectroscopy. Covering fluorine NMR, as well as the impact of fluorine substituents on proton and carbon NMR, this useful text shows you how to interpret spectroscopic data for molecules containing fluorine to better characterize their

compound's structure. A practical, working guide, this book contains numerous examples of structures and their corresponding fluorine NMR shifts, as well as the effect that fluorine has on proton and carbon NMR shifts.

Hardcover 272 pp 2009 ISBN 978-0-470-19341-9 €77.90/£60.50/CAD \$107.95/USD \$89.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-48340-4



Chemical Biology

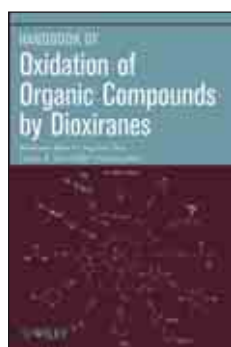
Learning through Case Studies

Herbert Waldmann, Petra Janning, both of Max-Planck-Institute of Molecular Physiology, Germany, Editors

This first book to adopt a problem-based approach teaches the true basics of the subject through illustrated everyday case studies. The editor's extensive experience in writing textbooks and his close relationship to the authors ensure that the contri-

butions are presented in a pedagogically uniform and highly motivating fashion. Each chapter introduces a different biological problem taken from everyday lab work, such that students learn how to think in order to solve problems in biology by using techniques and tools taken from chemistry.

Paperback 304 pp 2009 ISBN 978-3-527-32330-2 €39.90/£34.95/CAD \$72.00/USD \$60.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-48340-4



Oxidation of Organic Compounds by Dioxiranes

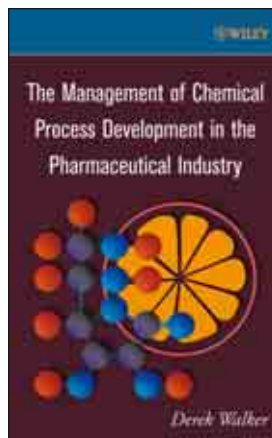
new

Waldemar Adam, Univ. Warzburg; Cong-Gui Zhao; Chantu R. Saha-Moller; Kavitha Jakka

This volume in our series covers the oxidation of alkenes and all other organic substrates. The authors are among the pioneers of dioxirane chemistry and draw on extensive firsthand knowledge of the subject. As with all Organic Reactions content,

the presentation emphasizes the preparative aspects of the reactions and emphasizes substrate scope, limitations, structural and electronic influences, and stereochemical aspects. Detailed experimental procedures are provided and all known examples of dioxirane oxidations are compiled in easy-to-scan tables.

Paperback 670 pp 2009 ISBN 978-0-470-45407-7 €84.90/£66.95/CAD \$119.95/USD \$99.95
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-46675-9



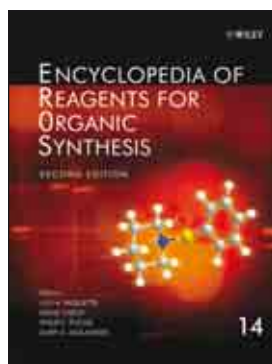
The Management of Chemical Process Development in the Pharmaceutical Industry

Derek Walker

An outstanding guide for managers in the chemical industries, but equally useful for anyone directly involved in process development, this work delivers concrete advice on creating a vision for process development and managing the team of experts that make it happen. Readers get a concise overview on how to galvanize chemists, chemical engineers, safety

and regulatory professionals, biologists, and others in an industrial environment in order to efficiently implement complex chemical processes. Includes apt case studies and addresses such issues as process safety, environmental engineering, FDA considerations, patents, and individual and team motivation.

Hardcover 416 pp 2008 ISBN 978-0-470-17156-1 €89.90/£70.50/CAD \$125.99/USD \$105.00
Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-25951-1



Encyclopedia of Reagents for Organic Synthesis

new

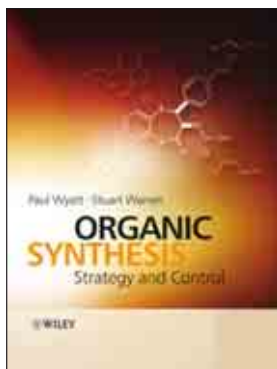
SECOND EDITION
FOURTEEN-VOLUME SET

Leo A. Paquette, *The Ohio State Univ., USA*; David Crich, *Univ. of Illinois at Chicago, USA*; Philip L. Fuchs, *Purdue Univ., USA*; Gary Molander, *Univ. Of Pennsylvania*; Editors

At last, the long anticipated second edition of the highly successful

Encyclopedia of Reagents for Organic Synthesis (EROS) is now available in print. With its wealth of valuable information, excellent editorial leadership and methodical classification, EROS is the authoritative reference regarding reagents and catalysts, which makes EROS vital reading for everyone working in organic synthesis. New features in the second edition include more than 1,000 new reagents and catalysts, more than 620 updated reagents with additional information added, and InChI and InChIKeys added to CAS numbers in each article.

Hardcover 12094 pp 2009 ISBN 978-0-470-01754-8
Introductory pricing: €4240.00/£3500.00/CAD \$8400.00/USD \$7000.00
Introductory pricing offer ends October 1, 2009. No catalog discounts apply.



Organic Synthesis

Strategy and Control

Paul Wyatt, Univ. of Bristol, UK;
Stuart Warren, Univ. of Cambridge, UK

A comprehensive, practical account of the key concepts involved in synthesizing compounds. Divided into five sections, this book explores selectivity, carbon-carbon single bonds, carbon-carbon double bonds, stereochemistry, and functional

group strategy. Describes classic methods and progresses to modern methods and strategic considerations. Heterocyclic chemistry is treated with full mechanistic explanations as part of organic chemistry rather than a separate mystery. Focuses on reactions that really work rather than those with limited application.

Paperback 918 pp 2007 ISBN 978-0-471-92963-5 €57.90/£45.00/CAD \$107.99/USD \$90.00

Hardcover 918 pp 2007 ISBN 978-0-471-48940-5 €119.00/£95.00/CAD \$227.99/USD \$190.00

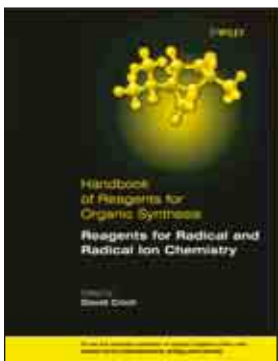
ALSO available **Workbook for Organic Synthesis**

Strategy and Control

Stuart Warren, Cambridge Univ., UK; Paul Wyatt, Univ. of Bristol, UK

Paperback 500 pp 2008 ISBN 978-0-471-92964-2 €44.90/£35.00/CAD \$83.99/USD \$70.00

Hardcover 500 pp 2008 ISBN 978-0-470-75883-0 €115.00/£90.00/CAD \$215.99/USD \$180.00



Reagents for Radical and Radical Ion Chemistry

Handbook of Reagents for Organic Synthesis

David Crich, CNRS, Gif-sur-yvette, France, Editor

The enormous growth of radical and radical ion chemistry has led to the development of many reagents designed specifically for this type of chemistry. These reagents, which form the core of this handbook,

range all the way from improved reagents for the preparation of radical precursors to improved initiators for use at room temperature and below, to one electron oxidants and reductants, replacements for classical stannanes and multifarious radical traps. While a number of books and review articles describe the importance and application of different classes of radical reactions, this handbook is a compilation of all major reagents in use in the area and is intended to guide the experimentalist and facilitate choice among the numerous reagents available for any one purpose. This book is a further volume in the series, *Handbook of Reagents for Organic Synthesis*.

Hardcover 722 pp 2009 ISBN 978-0-470-06536-5 €119.00/£95.00/CAD \$228.00/USD \$190.00

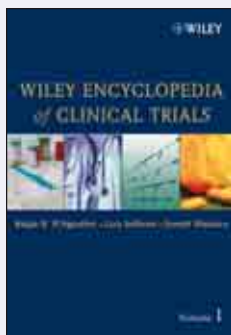
ALSO available **Handbook for Reagents for Organic Synthesis**

Handbook of Organic Reagents, Set Two

FOUR-VOLUME SET

Leo A. Paquette, Ohio State Univ., USA; Peter Wipf, Univ. of Pittsburgh, USA; David Crich, Univ. of Illinois at Chicago, USA; Philip L. Fuchs, Purdue Univ., USA

Hardcover 2184 pp 2007 ISBN 978-0-470-06652-2 €345.00/£270.00/CAD \$599.99/USD \$500.00



Wiley Encyclopedia of Clinical Trials

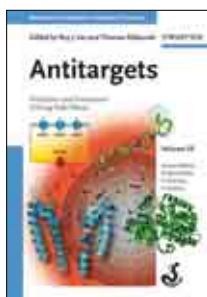
FOUR-VOLUME SET

Ralph D'Agostino, Lisa Sullivan, Joseph Massaro, all of Boston Univ., USA; Editors

This monumental reference on all facets of clinical trials is important reading given its comprehensive coverage and emphasis on clearly stated and defined concepts, methodologies, and applications. Including more

than 1,200 entries, from 600 of the world's leading experts in the field, from academic to corporate settings, *Encyclopedia of Clinical Trials* is a world-class and one-of-a-kind compendium of basic concepts, methodologies, and applications in clinical trials. The book's topical range includes: overview and basic statistical concepts; concepts of design and analysis of clinical trials; and methodologies and issues for clinical data analysis.

Hardcover 2524 pp 2008 ISBN 978-0-471-35203-7 €945.00/£737.00/CAD \$1680.00/USD \$1400.00



Antitargets

Prediction and Prevention of Drug Side Effects

Roy J. Vaz, Sanofi-Aventis, USA; Thomas Klabunde, Sanofi-Aventis, Germany; Editors

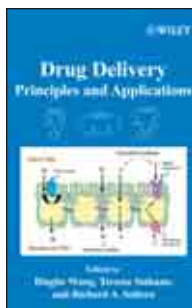
This practice-oriented handbook surveys current knowledge on the prediction and prevention of adverse drug reactions related to off-target activity of small molecule drugs. It is unique in collating the current approaches into a single source, and includes several

highly instructive case studies that may be used as guidelines on how to improve drug development projects. With its large section on ADME-related effects, this is key knowledge for every drug developer.

METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

Hardcover 504 pp 2008 ISBN 978-3-527-31821-6 €139.00/£120.00/CAD \$239.99/USD \$200.00

Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-62146-0



Drug Delivery

Principles and Applications

Binghe Wang, Georgia State Univ., USA; Teruna J. Siahaan, Univ. of Kansas, USA; Richard A. Soltero, PharmaDirections, Inc.

Recent developments in such areas as combinatorial chemistry, proteomics, and genomics have revolutionized researchers' ability to rapidly identify and synthesize new pharmacological compounds. However, delivery-related properties remain a significant reason for clinical trial failures. Bringing

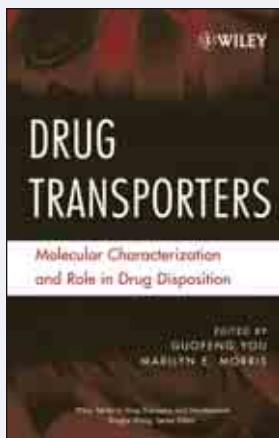
together contributions by leading international experts, *Drug Delivery* covers the entire field in a systematic but concise way. It begins with an in-depth review of key fundamentals, such as physiochemical and biological barriers; drug delivery pathways; metabolism; drug formulation; pharmacokinetic and pharmacodynamic issues; and more.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 464 pp 2005 ISBN 978-0-471-47489-0 €109.00/£83.50/CAD \$149.99/USD \$125.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-471-47573-6

best
seller



Drug Transporters

Molecular Characterization and Role in Drug Disposition

Guofeng You, Rutgers Univ. USA; Marilyn E. Morris, Univ. at Buffalo, SUNY; Editors

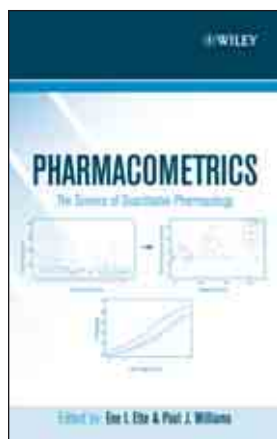
This well-written text provides a comprehensive overview of drug transporters, including specific descriptions of transporter families, substrate and inhibitor specificity, subcellular and tissue localization, mechanisms governing transport, species differences, the clinical implications of these transporters in human physiology and

disease, and their role in drug distribution, elimination, and interactions in drug therapy. Additionally, it gives a comprehensive summary of drug transport across biological membranes in the liver, brain, kidney, and intestine. *Drug Transporters* also describes transporter-mediated drug disposition, a newly emerging field in drug therapy.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 889 pp 2007 ISBN 978-0-471-78491-3 €139.00/£110.00/CAD \$197.99/USD \$165.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-14050-5



Pharmacometrics

The Science of Quantitative Pharmacology

Ene I. Ette, Anoxis Corporation, USA; Paul J. Williams, Univ. of the Pacific, USA; Editors

"... this landmark text is the first to pull together and present in one volume the many facets of pharmacometrics."

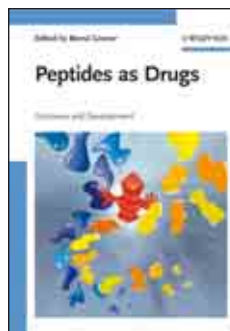
—**American Journal of Pharmaceutical Education**

Learn how to perform pharmacometrics to improve drug development success rates. This landmark text is the first to pull together and present in

one volume the many facets of pharmacometrics. Gain the knowledge base needed to perform pharmacometric analyses, interpret the results, and communicate these results to key decision makers. In particular, the text emphasizes the role of pharmacometrics in drug development, reflecting the field's enormous potential to increase drug development productivity. In addition to its clear and straightforward presentation of theory and methodology, the text features application examples with codes in NONMEM®, S-PLUS®, WinNonlin®, WinNonmix®, ADAPT®, and MATLAB®.

Hardcover 1216 pp 2007 ISBN 978-0-471-67783-3 €159.00/£123.00/CAD \$221.99/USD \$185.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-08797-8



Peptides as Drugs

Discovery and Development

Bernd Groner, Georg-Speyer-Haus Inst. for Medical Research, Germany; Editor

In covering the full spectrum of topics relevant to peptidic drugs, this timely handbook serves as an introductory reference for both drug developers and biomedical researchers interested in pharmaceutically active peptides. The first part covers current approaches to developing pharmaceuti-

cally active peptides and includes case studies of the use of peptidic drugs in cancer and AIDS therapy. The second part surveys strategies for the development and targeting of peptidic drugs.

Hardcover 242 pp 2009 ISBN 978-3-527-32205-3 €119.00/£105.00/CAD \$276.00/USD \$230.00



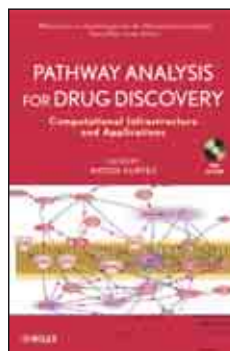
Six-Membered Transition States in Organic Synthesis

Jaemoon Yang

This reference focuses on explaining the six-membered chair-like transition states to improve understanding of how stereoselective reactions occur. It incorporates real-life applications of these transition states to the total syntheses of biologically active natural products. Logically organized according to reaction type, this useful to guide provides understanding of how reactions proceed through six-membered chair-like transition states.

Hardcover 210 pp 2008 ISBN 978-0-470-17883-6 €115.00/£90.50/CAD \$161.99/USD \$135.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-19905-3



Pathway Analysis for Drug Discovery

Computational Infrastructure and Applications

Anton Yuryev, Editor

"... will serve as a beacon to researchers interested in this field"—**Journal of Medicinal Chemistry**

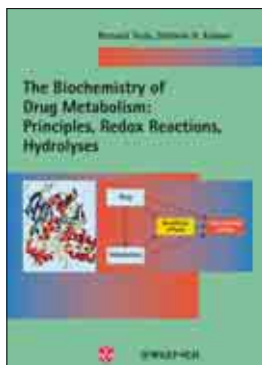
Explore the novel computational approaches of pathway analysis and learn the existing applications that can save time and money in the drug discovery process.

Covers traditional computational methods and software for pathway analysis—microarray, proteomics, and metabolomics. Better understand pathway reconstruction of diseases and toxic states, pathway analysis in various phases, dynamic modeling of drug responses, and more. This is a core resource for drug discovery and pharmaceutical industry researchers, chemists, and biologists and for professionals in related fields.

WILEY SERIES ON TECHNOLOGIES FOR THE PHARMACEUTICAL INDUSTRY

Hardcover w/CD-ROM 304 pp 2008 ISBN 978-0-470-10705-8 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-39927-9



The Biochemistry of Drug Metabolism

TWO-VOLUME SET

Bernard Testa, Univ. of Lausanne, BEP, Switzerland; Stefanie D. Krämer, ETH Zurich, Switzerland

Offering a conceptual and factual presentation of the metabolism of drugs and other xenobiotics, these two volumes focus on the biochemistry, with an emphasis on xenobiotic-metabolizing enzymes, their reactions and regulations. The first volume covers principles, redox reactions, and hydrolyses, while the second is devoted to conjugations, consequences of metabolism, and influencing factors. The all-important issue of the consequences of drug and xenobiotic metabolism is also discussed with an examination into the consequences of drug and xenobiotic metabolism in a pharmacological and toxicological perspective. With these basics in mind, other various influencing factors, including physiological and pathological conditions, as well as drugs, nutrients and environmental agents are explored with a special focus on drug-drug interactions.

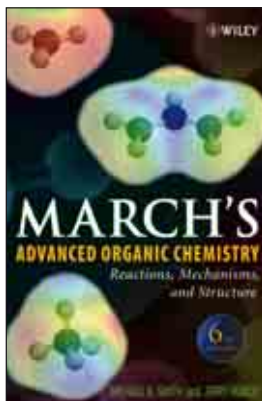
Paperback 700 pp 2009 ISBN 978-3-90639-055-0 €89.00/£80.00/CAD \$156.00/USD \$130.00

Volume One: Principles, Redox Reactions, Hydrolyses

Paperback 332 pp 2008 ISBN 978-3-90639-053-6 €49.00/£45.00/CAD \$89.99/USD \$75.00

Volume Two: Conjugations, Consequences of Metabolism, Influencing Factors

Paperback 350 pp 2009 ISBN 978-3-90639-054-3 €49.00/£45.00/CAD \$90.00/USD \$75.00



March's Advanced Organic Chemistry

Reactions, Mechanisms, and Structure

SIXTH EDITION

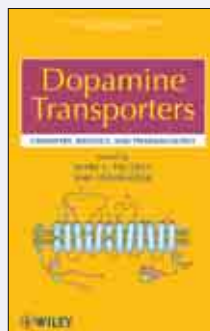
Michael B. Smith, Univ. of Connecticut; Jerry March, Adelphi Univ.

Clearly explains the theories and examples of organic chemistry, providing the most comprehensive textbook in organic chemistry available. It provides a better

understanding of the planning and execution of multi-step synthetic reactions, with detailed descriptions of all the reactions. Includes a concise appendix reviewing how to write reaction mechanisms and more than 25,000 valuable references to the primary literature. Also provides mechanisms that clearly explain concepts in modern terms. *March's* sixth edition proves again it is a must-have desktop reference and textbook for every student and professional working in organic chemistry or related fields.

Hardcover 2357 pp 2007 ISBN 978-0-471-72091-1 €97.90/£76.95/CAD \$137.99/USD \$115.00

best seller



Dopamine Transporters

Chemistry, Biology, and Pharmacology

Mark L. Trudell, Sari Izenwasser, Editors

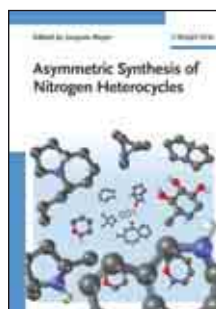
Serving as a much-needed resource for scientists working in the field of drug abuse, in particular treatments for cocaine, the chapters in this text bring together otherwise scattered information under one cover to present details about DAT related to drug design and synthesis, medicinal chemistry, and pharmacology. Also provides a strong general overview of this neurotransmitter,

helping you to improve your understanding of the regulation mechanisms of DAT. Reviews the current studies and research of DAT on expression, function, and pharmacology, and concludes with chapters focused on technologies for further and future DAT study: imaging and in vivo and in vitro methods.

WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

Hardcover 444 pp 2008 ISBN 978-0-470-11790-3 €94.90/£73.50/CAD \$121.00/USD \$110.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-28825-2



Asymmetric Synthesis of Nitrogen Heterocycles

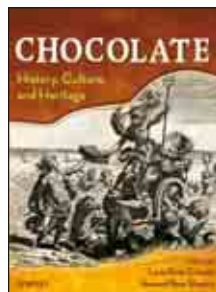
Jacques Royer, Faculté de Pharmacie, France, Editor

Long awaited and truly needed, this important book focuses on heterocycles the role they play in everyday life. Here, all aspects of asymmetric synthesis are presented in a compact manner, written by an international team of authors that provides important experimental procedures, including industrial applications. Moreover, the book is

clearly structured and divided into two sections: the asymmetric synthesis of heterocycles containing only one nitrogen and that of those with more than one nitrogen as a heteroatom.

Hardcover 425 pp 2009 ISBN 978-3-527-32036-3 €139.00/£120.00/CAD \$240.00/USD \$200.00

Online Book. See ad on page 17 for ordering information. ISBN 978-3-527-62550-5



Chocolate

History, Culture, and Heritage

Louis E. Grivetti, Howard-Yana Shapiro

In addition to pleasing palates since ancient times, chocolate has played an integral role in culture, society, religion, medicine, and economic development across the Americas, Africa, Asia, and Europe. This book features fifty-six essays representing research activities and contributions in such diverse fields as anthropology, archaeology, biochemistry, culinary arts, gender studies, engineering, history, linguistics, nutrition, and paleography. The result is an unparalleled, scholarly examination of chocolate, beginning with ancient pre-Colombian civilizations and ending with twenty-first-century reports. Not only does this book offer careful documentation, it also features nearly 150 color illustrations, new and previously unpublished information, and also offers a wealth of unusual and interesting facts and folklore about one of the world's favorite foods.

Hardcover 975 pp 2009 ISBN 978-0-470-12165-8 €84.90/£66.95/CAD \$119.95/USD \$99.95

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-41131-5

best seller

Take 35% OFF the Regular Price for These Selected Titles.

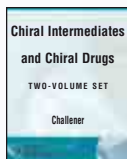
Hurry, Extra Discount Offer Ends November 30, 2009.



Burger's Medicinal Chemistry and Drug Discovery SIX-VOLUME SET

Abraham

Hardcover 5568 pp 2003 ISBN 978-0-471-37032-1
€2199.00/£1730.00/CAD \$3113.99/USD \$2595.00



Chiral Intermediates and Chiral Drugs TWO-VOLUME SET

Challener

Hardcover 1490 pp 2002 ISBN 978-0-566-08375-4
€435.00/£337.00/CAD \$605.99/USD \$505.00



Gardner's Chemical Synonyms and Trade Names ELEVENTH EDITION

Milne

Hardcover 1434 pp 1999 ISBN 978-0-566-08190-3
€299.00/£233.00/CAD \$419.99/USD \$350.00

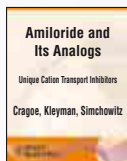


Metallotherapeutic Drugs and Metal-Based Diagnostic Agents

The Use of Metals in Medicine

Gielen, Tiekink

Hardcover 638 pp 2005 ISBN 978-0-470-86403-6
€219.00/£170.00/CAD \$396.00/USD \$330.00



Amiloride and Its Analogs

Unique Cation Transport Inhibitors

Cragoe, Kleyman, Simchowicz

Amiloride and Its Analogs

Unique Cation Transport Inhibitors

Cragoe, Kleyman, Simchowicz

Hardcover 388 pp 2002 ISBN 978-0-471-18794-3
€255.00/£197.00/CAD \$353.99/USD \$295.00



Molecular Descriptors in QSAR/QSPR

Karelson

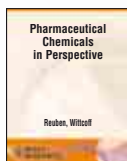
Hardcover 448 pp 2000 ISBN 978-0-471-35168-9
€255.00/£197.00/CAD \$353.99/USD \$295.00



Ashgate Handbook of Cardiovascular Agents

Zeman, Milne

Hardcover 506 pp 2001 ISBN 978-0-566-08386-0
€229.00/£180.00/CAD \$323.99/USD \$270.00



Pharmaceutical Chemicals in Perspective

Reuben, Wittcoff

Pharmaceutical Chemicals in Perspective

Reuben, Wittcoff

Hardcover 518 pp 2000 ISBN 978-0-471-84363-4
€229.00/£177.00/CAD \$317.99/USD \$265.00



Combinatorial Strategies in Biology and Chemistry

Beck-Sickinger, Weber

Hardcover 194 pp 2002 ISBN 978-0-471-49726-4
€159.00/£125.00/CAD \$299.99/USD \$250.00



Hydrolysis in Drug and Prodrug Metabolism

Chemistry, Biochemistry, and Enzymology

Testa, Mayer

Hardcover 800 pp 2003 ISBN 978-3-90639-025-3
€175.00/£150.00/CAD \$293.99/USD \$245.00



Pharmacokinetic Optimization in Drug Research

Biological, Physicochemical, and Computational Strategies

Testa, van de Waterbeemd, Folkers, Guy

Hardcover 668 pp 2002 ISBN 978-3-90639-022-2
€169.00/£145.00/CAD \$293.99/USD \$245.00

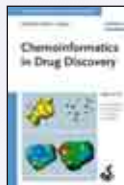


Chemogenomics in Drug Discovery

A Medicinal Chemistry Perspective

Kubinyi, Müller

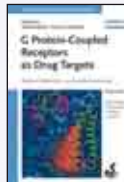
Hardcover 487 pp 2004 ISBN 978-3-527-30987-0
€169.00/£145.00/CAD \$287.99/USD \$240.00



Chemoinformatics in Drug Discovery

Oprea

Hardcover 515 pp 2005 ISBN 978-3-527-30753-1
€169.00/£145.00/CAD \$287.99/USD \$240.00



G Protein-Coupled Receptors as Drug Targets

Analysis of Activation and Constitutive Activity

VOLUME TWENTY-FOUR

Roland Seifert, Wieland

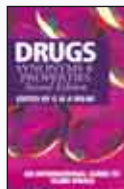
Hardcover 304 pp 2006 ISBN 978-3-527-30819-4
€155.00/£135.00/CAD \$257.99/USD \$215.00



Ashgate Handbook of Anti-Infective Agents

Milne

Hardcover 488 pp 2000 ISBN 978-0-566-08385-3
€179.00/£140.00/CAD \$251.99/USD \$210.00



Drugs

Synonyms and Properties

SECOND EDITION

Milne

Hardcover 1136 pp 2002 ISBN 978-0-566-08491-1
€179.00/£140.00/CAD \$251.99/USD \$210.00

Take 35% OFF the Regular Price for These Selected Titles.

Hurry, Extra Discount Offer Ends November 30, 2009.



Molecular Interaction Fields

Applications in Drug Discovery and ADME Prediction

Cruciani, Editor

Hardcover w/CD-ROM 328 pp 2006 ISBN 978-3-527-31087-6

€149.00/£130.00/CAD \$245.99/USD \$205.00



Ashgate Handbook of Endocrine Agents and Steroids

Milne

Hardcover 270 pp 2000 ISBN 978-0-566-08383-9

€165.00/£130.00/CAD \$233.99/USD \$195.00



Molecular Biology in Medicinal Chemistry

Dingermann, Steinhilber, Folkers

Hardcover 435 pp 2004 ISBN 978-3-527-30431-8

€129.00/£110.00/CAD \$227.99/USD \$190.00



Quantum Medicinal Chemistry

Methods and Principles in Medicinal Chemistry

Carloni, Alber

Hardcover 294 pp 2003 ISBN 978-3-527-30456-1

€129.00/£110.00/CAD \$227.99/USD \$190.00



Chiral Drugs

Challener

Hardcover 662 pp 2002 ISBN 978-0-566-08411-9

€155.00/£120.00/CAD \$215.99/USD \$180.00



Protein Crystallography in Drug Discovery

Babine, Abdel-Meguid

Hardcover 278 pp 2004 ISBN 978-3-527-30678-7

€119.00/£105.00/CAD \$209.99/USD \$175.00



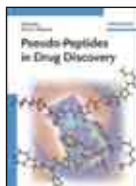
Protein-Ligand Interactions

From Molecular Recognition to Drug Design

Bohm, Schneider

Hardcover 262 pp 2003 ISBN 978-3-527-30521-6

€119.00/£105.00/CAD \$209.99/USD \$175.00



Pseudo-Peptides in Drug Discovery

Nielsen

Hardcover 256 pp 2004 ISBN 978-3-527-30633-6

€119.00/£105.00/CAD \$203.99/USD \$170.00

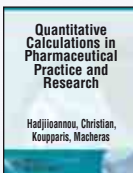


Ashgate Handbook of Antineoplastic Agents

Milne

Hardcover 190 pp 2000 ISBN 978-0-566-08382-2

€139.00/£107.00/CAD \$191.99/USD \$160.00



Quantitative Calculations in Pharmaceutical Practice and Research

Hadjiioannou, Christian, Koupparis, Macheras

Paperback 461 pp 2002 ISBN 978-0-471-18898-8

€139.00/£107.00/CAD \$191.99/USD \$160.00



Integrated Strategies for Drug Discovery Using Mass Spectrometry

Lee

Hardcover 568 pp 2005 ISBN 978-0-471-46127-2

€119.00/£93.50/CAD \$167.99/USD \$140.00

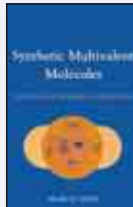


Analysis and Purification Methods in Combinatorial Chemistry

Yan

Hardcover 466 pp 2003 ISBN 978-0-471-26929-8

€115.00/£90.50/CAD \$161.99/USD \$135.00



Synthetic Multivalent Molecules

Concepts and Biomedical Applications

Choi

Hardcover 418 pp 2004 ISBN 978-0-471-56347-1

€115.00/£90.50/CAD \$161.99/USD \$135.00



Antiviral Drugs

Driscoll

Hardcover 200 pp 2004 ISBN 978-0-471-72332-5

€109.00/£86.95/CAD \$155.99/USD \$130.00



Absorption and Drug Development

Solubility, Permeability, and Charge State

Avdeef

Hardcover 312 pp 2003 ISBN 978-0-471-42365-2

€109.00/£86.95/CAD \$155.99/USD \$130.00

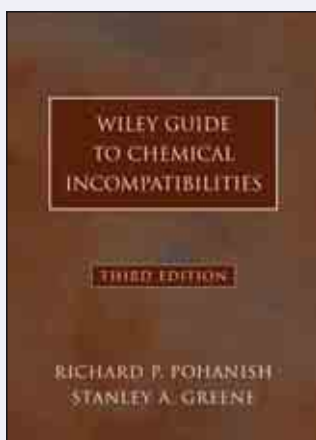


LC/MS Applications in Drug Development

Lee

Hardcover 256 pp 2002 ISBN 978-0-471-40520-7

€109.00/£86.95/CAD \$155.99/USD \$130.00



Wiley Guide to Chemical Incompatibilities

THIRD EDITION

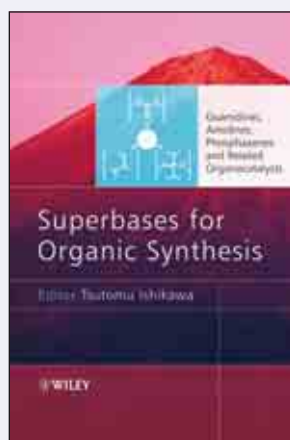
Richard P. Pohanish,
Stanley A. Greene

This resource covers over 11,000 chemicals! *The Wiley Guide to Chemical Incompatibilities* distills complicated chemical information in a convenient easy-to-use format that helps readers make safe decisions fast. Its alphabetical organization provides concise incompatibility profiles for thousands of commonly used commercial chemicals,

allowing readers to look up a given substance to instantly learn whether it is incompatible with common materials, other chemical substances, structural materials, or personal protective equipment. It provides reliable data on a substance's ability to generate toxic gases, rupture containers, cause polymerization, detonate, or form more dangerous compounds.

Hardcover 1128 pp 2009 ISBN 978-0-470-38763-4 €139.00/£107.00/CAD \$210.00/USD \$175.00

new



Superbases for Organic Synthesis

Guanidines, Amidines, Phosphazenes and Related Organocatalysts

Tsutomu Ishikawa, *Chiba Univ.*

Essentially an expansion by the author of an enormously popular paper he first penned for the organic chemistry journal *Synthesis*, this seminal guide is the first to deal solely with the synthesis and chemistry of the superbases guanidines, amidines, and phosphazenes. Herein, readers will discover a wealth of details concerning the physical properties, biological roles,

synthetic applications, appearance and synthesis as natural products, and the use in medicinal chemistry of these widely-used tools. Related organocatalysts and their derivatives and their uses are also discussed.

Hardcover 336 pp 2009 ISBN 978-0-470-51800-7 €119.00/£95.00/CAD \$240.00/USD \$200.00

Online Book. See ad on page 17 for ordering information. ISBN 978-0-470-74085-9

new