
An Introduction To Medicinal Chemistry

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An Introduction to Medicinal Chemistry

Oxford University Press

For many people, taking some form of medication is part of everyday life, whether for mild or severe illness, acute or chronic disease, to target infection or to relieve pain. However for most it remains a mystery as to what happens once the drug has been taken into the body: how do the drugs actually work? Furthermore, by what processes are new drugs discovered and

brought to market? An Introduction to Medicinal Chemistry, sixth edition, provides an accessible and comprehensive account of this fascinating multidisciplinary field. Assuming little prior knowledge, the text is ideal for those studying the subject for the first time. In addition to covering the key principles of drug design and drug action, the text also discusses important current topics in medicinal chemistry. The subject is brought to life throughout by engaging case studies highlighting particular classes of drugs, and the stories behind their discovery and development.

An Introduction to Medicinal Chemistry

Oxford University Press
This volume provides an introduction to medicinal chemistry. It covers basic principles and background, and describes the general tactics and strategies involved in developing an effective drug.

Medicinal Chemistry

An Introduction *John Wiley & Sons*

Medicinal Chemistry: An Introduction, Second Edition provides a comprehensive, balanced introduction to this evolving and multidisciplinary area of research. Building on the success of the First Edition, this edition has been completely revised and updated to include the latest developments in the field. Written in an accessible style,

Medicinal Chemistry: An Introduction, Second Edition carefully explains fundamental principles, assuming little in the way of prior knowledge. The book focuses on the chemical principles used for drug discovery and design covering physiology and biology where relevant. It opens with a broad overview of the subject with subsequent chapters examining topics in greater depth. From the reviews of the First Edition: "It contains a wealth of information in a compact form" ANGEWANDTE CHEMIE, INTERNATIONAL EDITION "Medicinal Chemistry is certainly a text I would chose to teach from for undergraduates. It fills a unique niche in the

market place." PHYSICAL SCIENCES AND EDUCATIONAL REVIEWS

An Introduction to Medicinal Chemistry

Oxford University Press

This volume provides an introduction to medicinal chemistry. It covers basic principles and background, and describes the general tactics and strategies involved in developing an effective drug.

An Introduction to Medicinal Chemistry

Introduction to Medicinal Chemistry

How Drugs Act and Why *Wiley-VCH*

This work bridgdes the compartmentalized undergraduate organic and biochemistry and biology subjects to the pharmacology and the

clinical areas a modern pharmacy practice requires. The changes and constantly increasing responsibilities of today's pharmacist have dictated a restructuring of the pharmacy curriculum, including individual course content. This book reflects and addresses these developments. This is a well-written work that covers most major areas of pharmaceutical research. The text is presented in a logical and concise fashion being divided into chapters based upon therapeutic topic. This makes the work very useful for teaching a course in medicinal chemistry since therapeutic areas can be separately covered without having to make

use of the entire book which overall contains a tremendous amount of information. This book is a significant contribution to understanding what medicinal chemistry is and how this science is used to develop new therapeutic agents.

Medicinal Chemistry

An Introduction *Wiley-Blackwell*

This work provides an introduction to the subject of medicinal chemistry, the study of the chemistry of therapeutically active compounds. Focusing on the chemical principles used for drug discovery and design, it also covers physiology and biology.

An Introduction to Medicinal Chemistry

Basic Concepts in Medicinal Chemistry

ASHP

Medicinal chemistry is a complex topic. Written in an easy to follow and conversational style, *Basic Concepts in Medicinal Chemistry* focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions. The book emphasizes functional group analysis and the basics of drug structure evaluation. In a systematic fashion, learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility, absorption, acid/base character,

binding interactions, and stereochemical orientation. Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group. Key features include:

- Discussions on the roles and characteristics of organic functional groups, including the identification of acidic and basic functional groups.
- How to solve problems involving pH, pKa, and ionization; salts and solubility; drug binding interactions; stereochemistry; and drug metabolism.
- Numerous examples and expanded discussions for complex concepts.
- Therapeutic examples that link the importance of medicinal chemistry to

pharmacy and healthcare practice. • An overview of structure activity relationships (SARs) and concepts that govern drug design. • Review questions and practice problems at the end of each chapter that allow readers to test their understanding, with the answers provided in an appendix. Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts, this book is here to help you navigate medicinal chemistry. About the Authors Marc W. Harrold, BS, Pharm, PhD, is Professor of Medicinal Chemistry at the Mylan School of Pharmacy, Duquesne University, Pittsburgh,

PA. Professor Harrold is the 2011 winner of the Omicron Delta Kappa "Teacher of the Year" award at Duquesne University. He is also the two-time winner of the "TOPS" (Teacher of the Pharmacy School) award at the Mylan School of Pharmacy. Robin M. Zavod, PhD, is Associate Professor for Pharmaceutical Sciences at the Chicago College of Pharmacy, Midwestern University, Downers Grove, IL, where she was awarded the 2012 Outstanding Faculty of the Year award. Professor Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology. She currently serves as Editor-in-Chief of the journal *Currents in Pharmacy Teaching and Learning*.

The Practice of Medicinal Chemistry

Elsevier

The Practice of Medicinal Chemistry, Fourth Edition provides a practical and comprehensive overview of the daily issues facing pharmaceutical researchers and chemists. In addition to its thorough treatment of basic medicinal chemistry principles, this updated edition has been revised to provide new and expanded coverage of the latest technologies and approaches in drug discovery. With topics like high content screening, scoring, docking, binding free energy calculations, polypharmacology, QSAR, chemical collections and databases, and much more, this book is the

go-to reference for all academic and pharmaceutical researchers who need a complete understanding of medicinal chemistry and its application to drug discovery and development. Includes updated and expanded material on systems biology, chemogenomics, computer-aided drug design, and other important recent advances in the field. Incorporates extensive color figures, case studies, and practical examples to help users gain a further understanding of key concepts. Provides high-quality content in a comprehensive manner, including contributions from international chapter authors to illustrate the global nature of

medicinal chemistry and drug development research. An image bank is available for instructors at www.textbooks.elsevier.com

Fundamentals of Medicinal Chemistry

John Wiley & Sons

Provides a concise introduction to the chemistry of therapeutically active compounds, written in a readable and accessible style. The title begins by reviewing the structures and nomenclature of the more common classes of naturally occurring compounds found in biological organisms. An overview of medicinal chemistry is followed by chapters covering the discovery and design of drugs, pharmacokinetics and

drug metabolism. The book concludes with a chapter on organic synthesis, followed by a brief look at drug development from the research stage through to marketing the final product. The text assumes little in the way of prior biological knowledge. Relevant biology is included through biological topics, examples and the Appendices. Incorporates summary sections, examples, applications and problems. Each chapter contains an additional summary section and solutions to the questions are provided at the end of the text. Invaluable for undergraduates studying within the chemical, pharmaceutical and life sciences.

Medicinal Chemistry

A Look at How Drugs Are Discovered

CRC Press

Medicinal Chemistry: A Look at How Drugs Are Discovered is written for those who are interested in learning how drugs are discovered. Compared to other books on the market, this text takes a different approach by presenting the subject on chemical reaction mechanism terms, which ideally makes the subject matter more interesting and easier to comprehend. The authors describe the drug discovery process, from advancing an initial lead to the approval process, and include drug discovery sources. Additional features: Explains medicinal chemistry on

chemical mechanism terms, allowing for a more interesting and easier to comprehend text. Includes valuable insights toward the various pathways taken at pharmaceutical industries in drug discoveries. Improved by including questions raised and suggestions made from students in the authors' medicinal chemistry classes. This book will benefit both upper level undergraduates and graduates studying in the fields of medicinal chemistry and drug discovery, as well as scientists working in the pharmaceutical industry.

Privileged Scaffolds in Medicinal Chemistry

Design, Synthesis,

Evaluation *Royal Society of Chemistry*

One strategy to expedite the discovery of new drugs, a process that is somewhat slow and serendipitous, is the identification and use of privileged scaffolds. This book covers the history of the discovery and use of privileged scaffolds and addresses the various classes of these important molecular fragments. The first of the benzodiazepines, a class of drugs that is powerful for treating anxiety, may not have been discovered had it not been for a chance experiment on the contents of a discarded flask found during a lab clean-up. Some years later, scientists discovered that benzodiazepine derivatives were also

effective in treating other diseases. This class of molecules was the first to be described as privileged in the sense that it is especially effective at altering the course of disease. Other privileged molecular structures have since been discovered, and since these compounds are so effective at interacting with numerous classes of proteins, they may be an effective starting point to look for new drugs against the supposedly "undruggable" proteins. Following introductory chapters presenting an overview, a historical perspective and the theoretical background and findings, main chapters describe the structure of privileged structures in turn and

discuss major drug classes associated with them and their syntheses. This book provides comprehensive coverage of the subject through chapters contributed by expert authors from both academia and industry and will be an excellent reference source for medicinal chemists of a range of disciplines and experiences.

An Introduction to Medicinal Chemistry

Instant Notes in Organic Chemistry

Garland Science

Instant Notes in Organic Chemistry, Second Edition, is the perfect text for undergraduates looking for a concise introduction to the subject, or a study guide to use before

examinations. Each topic begins with a summary of essential facts?an ideal revision checklist?followed by a description of the subject that focuses on core information, with clear, simple diagrams that are easy for students to understand and recall in essays and exams.

Medicinal Chemistry

Garland Science

Medicinal Chemistry begins with the history of the field, starting from the serendipitous use of plant preparations to current practice of design- and target-based screening methods. Written from the perspective of practicing medicinal chemists, the text covers key drug discovery activities such as pharmacokinetics and

patenting, as well as the classes and structures of drug targets (receptors, enzymes, nucleic acids, and protein-protein and lipid interactions) with numerous examples of drugs acting at each type. Selected therapeutic areas include drugs to treat cancer, infectious diseases, and central nervous system disorders. Throughout the book, historical and current examples illustrate the progress to market and case studies explore the applications of concepts discussed in the text. Each chapter features a Journal Club, as well as review and application questions to enhance and test comprehension. This textbook is ideal for upper-level undergraduates and

graduate students taking a one-semester survey course on medicinal chemistry and/or drug discovery, as well as scientists entering the pharmaceutical industry.

An Introduction to Drug Synthesis
Oxford University Press, USA

'Introduction to Drug Synthesis' explores the central role played by organic synthesis in the process of drug design and development - from the generation of novel drug structures to the improved efficiency of large scale synthesis.

Textbook of Medicinal Chemistry Vol I - E-Book *Elsevier Health Sciences*
Dr Alagarsamy's Textbook of Medicinal

Chemistry is a much-awaited masterpiece in its arena. Targeted mainly to B. Pharm. students, this book will also be useful for M. Pharm. as well as M. Sc. organic chemistry and pharmaceutical chemistry students. It aims at eliminating the inadequacies in teaching and learning of medicinal chemistry by providing enormous information on all the topics in medicinal chemistry of synthetic drugs. Salient Features

- Contains clear classification, synthetic schemes, mode of action, metabolism, assay, pharmacological uses with the dose and structure-activity relationship (SAR) of the following classes of drugs:
 - Drugs acting on inflammation
 - Drugs acting on respiratory system
 - Drugs acting on

- digestive system
- Drugs acting on blood and blood-forming organs
- Drugs acting on endocrine system
- Contains a complete section on chemotherapy and the various classes of chemotherapeutic agents. Also includes recent topics like anti-HIV agents
- Contains brief introduction about the physiological and pathophysiological conditions of diseases and their treatment under each topic
- Provides well-illustrated synthetic schemes and alternative synthetic routes for majority of drugs that help in quick and enhanced understanding of the subject
- Covers the syllabi of majority of Indian universities

The Ups and Downs

in Drug Design**Adventures in Medicinal Chemistry***CRC Press*

The Ups and Downs in Drug Design: Adventures in Medicinal Chemistry highlights the necessity for an integrative approach in medicinal chemistry and chemical biology. As medicinal chemistry is not a monolithic science, it is important to emphasize the other various disciplines that are required for successful drug design. This book presents the author's own personal experience in this field and describes the "ups" and "downs" that come with drug discovery. It is an excellent companion text for graduate and postgraduate students who would like further

insight into the parameters of drug design, including the challenges that come with the project. Key Features Illustrates "real-life" examples in medicinal chemistry Integrates the use of physical, chemical, and biological concepts that are important in drug design Highlights the "ups" and "downs" that come with drug discovery Aims to inspire students who may be struggling with the challenges and thought process in drug design Intends to be an excellent companion text for graduate and postgraduate students

Medicinal Chemistry**The Modern Drug Discovery Process***Prentice Hall*

Emphasizing

applications of chemistry while reinforcing theory - especially in the areas of organic and physical chemistry - this new text prepares readers for career success in the pharmaceutical, medical, and biotech industries. Medicinal Chemistry: The Modern Drug Discovery Process delivers a comprehensive introduction to medicinal chemistry at an appropriate level of detail for a diverse range of readers. By highlighting the concepts and skills related to drug discovery, Stevens deepens readers' understanding of the knowledge and techniques necessary for their careers.

Annual Reports in Medicinal Chemistry

Academic Press

Annual Reports in Medicinal Chemistry provides timely and critical reviews of important topics in medicinal chemistry with an emphasis on emerging topics in the biological sciences that are expected to provide the basis for entirely new future therapies. Reviews on hot topics of interest in small molecule drug discovery heavily pursued by industrial research organizations Provides preclinical information in the context of chemical structures Knowledgeable section editors who evaluate invited reviews for scientific rigor

The Handbook of Medicinal Chemistry

Principles and

Practice *Royal Society of Chemistry*

Drug discovery is a constantly developing and expanding area of research. Developed to provide a comprehensive guide, the Handbook of Medicinal Chemistry covers the past, present and future of the entire drug development process. Highlighting the recent successes and failures in drug discovery, the book helps readers to understand the factors governing modern drug discovery from the initial concept through to a marketed medicine. With chapters covering a wide range of topics from drug discovery processes and optimization, development of synthetic routes, pharmaceutical

properties and computational biology, the handbook aims to enable medicinal chemists to apply their academic understanding to every aspect of drug discovery. Each chapter includes expert advice to not only provide a rigorous understanding of the principles being discussed, but to provide useful hints and tips gained from within the pharmaceutical industry. This expertise, combined with project case studies, highlighting and discussing all areas of successful projects, make this an essential handbook for all those involved in pharmaceutical development.

Medicinal Natural

Products: A Disease-Focused Approach

Academic Press

Medicinal Natural Products: A Disease-Focused Approach, Volume 55 in the Annual Reports in Medicinal Chemistry series, highlights the applications of natural products as medicines or prospective medicinal leads for the treatment of various human ailments. Each chapter covers a particular disease area or medical condition, with chapters in this new release covering Medicinal Natural Products - An Introduction, Anticancer Natural Products, Antimicrobial Natural Products, Antimalarial and Antiparasitic Natural Products, Anti-inflammatory Natural Products,

Neuroprotective Natural Products, Hepatoprotective Natural Products, Nephroprotective Natural Products, Cancer

Chemopreventive Natural Products, Antipsoriatic Natural Products, Medicinal Natural Products in Osteoporosis, Antidiabetic Natural Products, Anti-obesity Natural Products, and much more. Presents a disease-focused perspective Includes the latest on the medicinal chemistry of natural products Covers natural products in drug delivery

Burger's Medicinal Chemistry, Drug Discovery and Development, 8 Volume Set *John Wiley & Sons*

Burger's Medicinal Chemistry, Drug Discovery and Development Explore the freshly updated flagship reference for medicinal chemists and pharmaceutical professionals The newly revised eighth edition of the eight-volume Burger's Medicinal Chemistry, Drug Discovery and Development is the latest installment in this celebrated series covering the entirety of the drug development and discovery process. With the addition of expert editors in each subject area, this eight-volume set adds 35 chapters to the extensive existing chapters. New additions include analyses of opioid addiction treatments, antibody and gene therapy for cancer, blood-brain barrier, HIV treatments, and industrial-academic collaboration structures. Along with the incorporation of practical material on drug hunting, the set features sections on drug discovery, drug development, cardiovascular diseases, metabolic diseases, immunology, cancer, anti-Infectives, and CNS disorders. The text continues the legacy of previous volumes in the series by providing recognized, renowned, authoritative, and comprehensive information in the area of drug discovery and development while adding cutting-edge new material on issues like the use of artificial intelligence in medicinal chemistry. Included: Volume 1:

Methods in Drug Discovery, edited by Kent D. Stewart Volume 2: Discovering Lead Molecules, edited by Kent D. Stewart Volume 3: Drug Development, edited by Ramnarayan S. Randad and Michael Myers Volume 4: Cardiovascular, Endocrine, and Metabolic Diseases, edited by Scott D. Edmondson Volume 5: Pulmonary, Bone, Immunology, Vitamins, and Autocoid Therapeutic Agents, edited by Bryan H. Norman Volume 6: Cancer, edited by Barry Gold and Donna M. Huryn Volume 7: Anti-Infectives, edited by Roland E. Dolle Volume 8: CNS Disorders, edited by Richard A. Glennon

pharmaceutical and biotechnology industries, Burger's Medicinal Chemistry, Drug Discovery and Development can be used by graduate students seeking a one-stop reference for drug development and discovery and deserves its place in the libraries of biomedical research institutes, medical, pharmaceutical, and veterinary schools.

Computational Medicinal Chemistry for Drug Discovery
CRC Press

Observing computational chemistry's proven value to the introduction of new medicines, this reference offers the techniques most frequently utilized by industry and academia for ligand design.

Featuring contributions from more than fifty pre-eminent scientists, Computational Medicinal Chemistry for Drug Discovery surveys molecular structure computa

Medicinal Chemistry for Practitioners *John*

Wiley & Sons

Presenting both a panoramic introduction to the essential disciplines of drug discovery for novice medicinal chemists as well as a useful reference for veteran drug hunters, this book summarizes the state-of-the-art of medicinal chemistry. It covers key drug targets including enzymes, receptors, and ion channels, and hit and lead discovery. The book then surveys a drug's pharmacokinetics and

toxicity, with a solid chapter covering fundamental bioisosteres as a guide to structure-activity relationship investigations.

An Introduction to Medicinal Chemistry

Textbook of Drug Design and Discovery, Third Edition *CRC Press*

Building on the success of the previous editions, Textbook of Drug Design and Discovery has been thoroughly revised and updated to provide a complete source of information on all facets of drug design and discovery for students of chemistry, pharmacy, pharmacology, biochemistry, and medicine. The book follows drug design

from the initial lead identification through optimization and structure-activity relationship with reference to the final processes of clinical evaluation and registration. Chapters investigate the design of enzyme inhibitors and drugs for particular cellular targets such as ion channels and receptors, and also explore specific classes of drug such as peptidomimetics, antivirals and anticancer agents. The use of gene technology in pharmaceutical research, computer modeling techniques, and combinatorial approaches are also included.

Organic Chemistry Concepts and Applications for Medicinal Chemistry

Academic Press

Organic Chemistry Concepts and Applications for Medicinal Chemistry provides a valuable refresher for understanding the relationship between chemical bonding and those molecular properties that help to determine medicinal activity. This book explores the basic aspects of structural organic chemistry without going into the various classes of reactions. Two medicinal chemistry concepts are also introduced: partition coefficients and the nomenclature of cyclic and polycyclic ring systems that comprise a large number of drug molecules. Given the systematic name of a drug, the reader is guided through the

process of drawing an accurate chemical structure. By emphasizing the relationship between structure and properties, this book gives readers the connections to more fully comprehend, retain, apply, and build upon their organic chemistry background in further chemistry study, practice, and exams. Focused approach to review those organic chemistry concepts that are most important for medicinal chemistry practice and understanding. Accessible content to refresh the reader's knowledge of bonding, structure, functional groups, stereochemistry, and more. Appropriate level of coverage for students in organic

chemistry, medicinal chemistry, and related areas; individuals seeking content review for graduate and medical courses and exams; pharmaceutical patent attorneys; and chemists and scientists requiring a review of pertinent material.

Foye's Principles of Medicinal Chemistry
Lippincott Williams & Wilkins

Acclaimed by students and instructors alike, Foye's Principles of Medicinal Chemistry is now in its Seventh Edition, featuring updated chapters plus new material that meets the needs of today's medicinal chemistry courses. This latest edition offers an unparalleled presentation of drug discovery and pharmacodynamic

agents, integrating principles of medicinal chemistry with pharmacology, pharmacokinetics, and clinical pharmacy. All the chapters have been written by an international team of respected researchers and academicians. Careful editing ensures thoroughness, a consistent style and format, and easy navigation throughout the text.

Handbook of Research on Medicinal Chemistry

Innovations and Methodologies *Taylor & Francis*

This valuable new book, *Handbook of Research on Medicinal Chemistry: Innovations and Methodologies*, presents some of the latest advancements in

the various fields of combinatorial chemistry, drug discovery, biochemical aspects, pharmacology of medicinal agents, current practical problems, and nutraceuticals. The editors keep the drug molecule as the central component of the volume and aim to explain the associated features essential to exhibiting pharmacological activity. With a unique combination of chapters in biology, clinical aspects, biochemistry, synthetic chemistry, medicine and technology, the volume provides broad exposure to the essential aspect of pharmaceuticals. The volume many important aspects of medicinal chemistry, including techniques in

drug discovery resistance parasites
pharmacological new natural
aspects of natural compounds and
products chemical identification of new
mediators: druggable targets
targets advances in stereochemistry
medicinal chemistry aspects in medicinal
The field of medicinal chemistry common
chemistry is growing at drug interactions in
an unprecedented daily practices
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drug discovery natural
products and
supplements and
nutraceuticals
pharmaceutical
approaches to sexual
dysfunction drug

**Studyguide for an
Introduction to
Medicinal Chemistry
by Patrick, Graham
L. Cram101**

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testable terms,
concepts, persons,
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Studyguide for an Introduction to Medicinal Chemistry by Graham L. Patrick, ISBN 9780199697397

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textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780199697397 .

Molecular Drug Properties

Measurement and Prediction *John Wiley & Sons*

This first systematic overview for more than a decade is tailor-made for the medicinal chemist. All the chapters are written by experienced drug developers and include practical examples from real drug candidates. 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.

Review of Organic Functional Groups

Introduction to Medicinal Organic Chemistry

Natural Products in Medicinal Chemistry

John Wiley & Sons

The inspiration provided by biologically active natural products to conceive of hybrids, congeners, analogs and unnatural variants is discussed by experts in the field in 16 highly

informative chapters. Using well-documented studies over the past decade, this timely monograph

demonstrates the current importance and future potential of natural products as starting points for the development of new drugs with improved properties over their progenitors. The examples are chosen so as to represent a wide range of natural products with therapeutic relevance among others, as anticancer agents, antimicrobials, antifungals, antisense nucleosides, antidiabetics, and analgesics. From the content: * Part I: Natural Products as Sources of Potential Drugs and Systematic Compound Collections * Part II: From

Marketed Drugs to Designed Analogs and Clinical Candidates * Part III: Natural Products as an Incentive for Enabling Technologies * Part IV: Natural Products as Pharmacological Tools * Part V: Nature: The Provider, the Enticer, and the Healer

Progress in Medicinal Chemistry

Introduction to Medicinal Chemistry

How Drugs Act and why *Wiley-VCH Verlag GmbH*

This text integrates the chemical and physiological aspects of drugs and links the undergraduate sciences of organic chemistry, biochemistry and biology with the clinical areas required for a

thorough understanding of modern medicinal chemistry. Among the drug-related topics discussed are: rational therapeutic utilization, shortcomings and hazards, mechanisms of actions, stability in the container and in the body, and design and development.

Textbook of Organic Medicinal and Pharmaceutical Chemistry *Lippincott Williams & Wilkins*

New Synthetic Technologies in Medicinal Chemistry *Royal Society of Chemistry*

The modern synthetic chemist applies all the tools available to identify the drug-like molecules with the best chances of becoming novel drugs.

This book will act as a primer for graduates and postgraduates interested in a career in drug discovery. It covers both synthetic technologies currently impacting medicinal chemistry and emerging areas. The chapters focus on topics including: parallel medicinal chemistry; solid supported reagents; microwave assisted chemistry; flow synthesis, and high throughput reaction screening.