

New Books

Handbook of Drug Screening

Edited by Ramakrishna Seethala, Prabhavathi B. Fernandes, Marcel Dekker, New York, 2001. 597 pp.; \$195

This book is the 114th of the series *Drugs and the Pharmaceutical Sciences*. It provides comprehensive coverage of current screening techniques, modern technologies, and high-capacity instrumentation for increased productivity in the development and discovery of new drugs, chemical compounds and targeted delivery of pharmaceuticals.

It regroups 21 contributions from 44 authors.

1. Moving Into the Third Millennium After a Century of Screening.
2. Basic Considerations in Designing High-Throughput Screening Assays.
3. Screening Platforms.
4. Homogeneous Assays for High-Throughput and Ultrahigh-Throughput Screening.
5. Microbe-Based Screening Systems.
6. Molecular Genetic Screen Design for Agricultural and Pharmaceutical Product Discovery.
7. Receptor Screens for Small Molecule Agonist and Antagonist Discovery.
8. Functional Assay Screens.
9. Enzyme Screens.
10. Screening Strategies for Ion Channel Targets.
11. High-Throughput Screening Assays for Detection of Transcription.
12. Screening of Combinatorial Biology Libraries for Natural Products Discovery.
13. Higher-Throughput Screening Assays With Human Hepatocytes for Hepatotoxicity, Metabolic Stability, and Drug–Drug Interaction Potential.
14. High-Throughput Screening for Metabolism-Based Drug–Drug Interactions.
15. The ATCG of Drug Discovery.
16. Genomics/Functional Proteomics for Identification of New Targets.
17. Bioinformatics: Identification of Novel Targets and Their Characterization.
18. The Evolution of Laboratory Automation.
19. Robotics and Automation.
20. Assay Miniaturization: Developing Technologies and Assay Formats.
21. Screening in the NanoWorld: Single-Molecule Spectroscopy and Miniaturized High-Throughput Screening.

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PII: S0223-5234(02)01367-3

Drug Targeting Technology: Physical, Chemical, Biological Methods

Edited by Hans Schreier, Marcel Dekker, New York, 2001. 249 pp.; \$150

This book is the 115th of the series *Drugs and the Pharmaceutical Sciences*. It focuses on oral, dispersed system, topical, dermal, transdermal and inhalation delivery, and the development of original formulations.

It regroups ten contributions from 25 authors presented in three parts:

Part I Physical Targeting Approaches.

Part II Chemical Targeting Approaches.

Part III Biological Targeting Approaches.

An index is provided.

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PII: S0223-5234(02)01365-X

Understanding and Manipulating Excited-State Processes

Edited by V. Ramamurthy, Kirk S. Schanze, Marcel Dekker, New York, 2001. 757 pp.; \$195

This book is the eighth volume of the series *Molecular and Supramolecular Photochemistry*.

It contains 11 contributions from 29 authors and covers two areas of photochemistry:

- Understanding excited state behavior of organic molecules (Chapters 1–3 and 11).
 - Manipulation of the excited-state behavior of molecules via environmental controls (Chapters 4–10).
 - 1. Ortho Photocycloaddition of Alkenes and Alkynes to the Benzene Ring.
 - 2. Photocycloaddition and Photoaddition Reactions of Aromatic Compounds.
 - 3. Singlet-Oxygen Ene-Sensitized Photo-Oxygenations: Stereochemistry and Mechanism.
 - 4. Singlet-Oxygen Reactions: Solvent and Compartmentalization Effects.
 - 5. Microreactor-Controlled Product Selectivity in Organic Photochemical Reactions.
 - 6. Enantioselective Photoreaction in the Solid State.
 - 7. Observations on the Photochemical Behavior of Coumarins and Related Systems in the Crystalline State.
 - 8. Supramolecular Photochemistry of Cyclodextrin Materials.
 - 9. Photoactive Layered Materials: Assembly of Ions, Molecules, Metal Complexes, and Proteins.
 - 10. Fluorescence of Excited Singlet-State Acids in Certain Organized Media: Applications as Molecular Probes.
 - 11. Photophysics and Photochemistry of Fullerenes and Fullerene Derivatives.
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