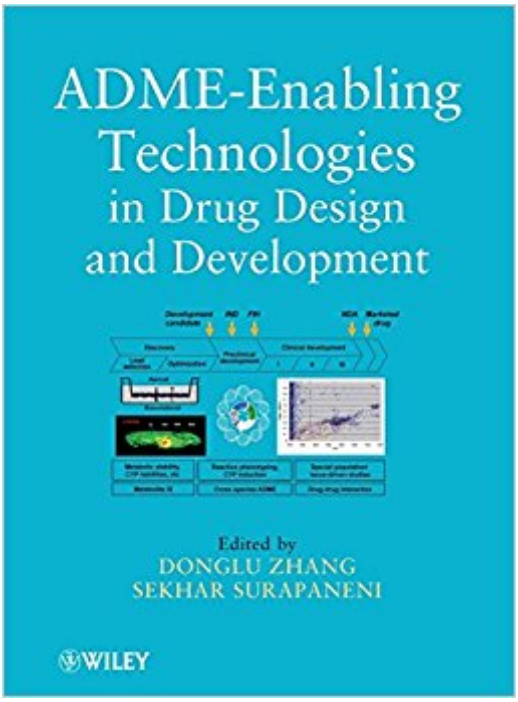
ADME-Enabling Technologies In Drug Design And Development



Synopsis

A comprehensive guide to cutting-edge tools in ADME research The last decade has seen tremendous progress in the development of analytical techniques such as mass spectrometry and molecular biology tools, resulting in important advances in drug discovery, particularly in the area of absorption, distribution, metabolism, and excretion (ADME). ADME-Enabling Technologies in Drug Design and Development focuses on the current state of the art in the field, presenting a comprehensive review of the latest tools for generating ADME data in drug discovery. It examines the broadest possible range of available technologies, giving readers the information they need to choose the right tool for a given application, a key requisite for obtaining favorable results in a timely fashion for regulatory filings. With over thirty contributed chapters by an international team of experts, the book provides: A thorough examination of current tools, covering both electronic/mechanical technologies and biologically based ones Coverage of applications for each technology, including key parameters, optimal conditions for intended results, protocols, and case studies Detailed discussion of emerging tools and techniques, from stem cells and genetically modified animal models to imaging technologies Numerous figures and diagrams throughout the text Scientists and researchers in drug metabolism, pharmacology, medicinal chemistry, pharmaceutics, toxicology, and bioanalytical science will find ADME-Enabling Technologies in Drug Design and Development an invaluable guide to the entire drug development process, from discovery to regulatory issues.

Book Information

Hardcover: 622 pages
Publisher: Wiley; 1 edition (April 30, 2012)
Language: English
ISBN-10: 0470542780
ISBN-13: 978-0470542781
Product Dimensions: 8.7 x 1.4 x 11.3 inches
Shipping Weight: 3.7 pounds (View shipping rates and policies)
Average Customer Review: Be the first to review this item
Best Sellers Rank: #3,421,580 in Books (See Top 100 in Books) #67 inÃ Â Books > Medical Books > Pharmacology > Product Development #1956 inÃ Â Books > Textbooks > Medicine & Health Sciences > Allied Health Services > Pharmacy #2940 inÃ Â Books > Medical Books > Pharmacology > Pharmacy

Customer Reviews

Ã¢â ¬Å“This book fills time needs of ADME researchers and provides a fine reference book for scientists engaged in the areas of medicinal chemistry, pharmaceutics, bioanalytical sciences, pharmacology and toxicology in academia and pharmaceutical industry.Ã¢â ¬Â•Ã Â (British Toxicology Society, 1 July 2013) Ã Â

Donglu Zhang, PhD, is a Principal Scientist in Pharmaceutical Candidate Optimization at Bristol-Myers Squibb in Princeton, New Jersey. He has published seventy peer-reviewed articles, codiscovered the Mass Defect Filtering technique, and coedited two books. Sekhar Surapaneni, PhD, is Director, DMPK, at Celgene Corporation in New Jersey. He has published extensively in peer-reviewed journals and is a member of ISSX and ACS.

Modifiers in Layer of Protection Analysis Handbook of Digital Techniques for High-Speed Design: Design Examples, Signaling and Memory Technologies, Fiber Optics, Modeling, and Simulation to Ensure Signal Integrity The Organic Chemistry of Drug Design and Drug Action The Organic Chemistry of Drug Design and Drug Action, Second Edition