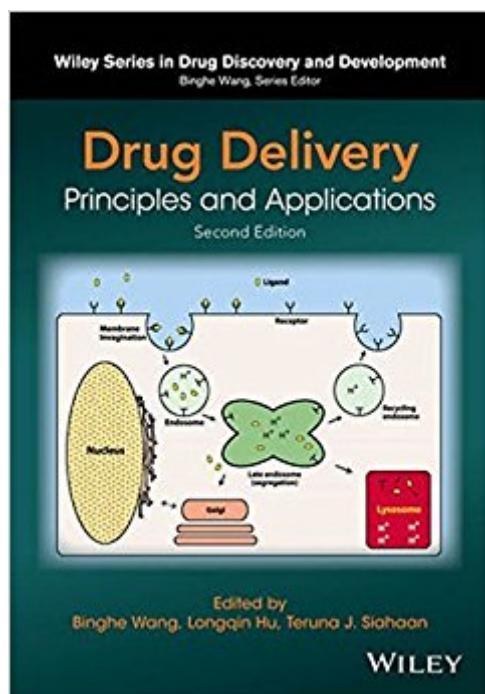


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Drug Delivery: Principles And Applications (Wiley Series In Drug Discovery And Development)



Synopsis

Following its successful predecessor, this book covers the fundamentals, delivery routes and vehicles, and practical applications of drug delivery. In the 2nd edition, almost all chapters from the previous are retained and updated and several new chapters added to make a more complete resource and reference.  Helps readers understand progress in drug delivery research and applications  Updates and expands coverage to reflect advances in materials for delivery vehicles, drug delivery approaches, and therapeutics  Covers recent developments including transdermal and mucosal delivery, lymphatic system delivery, theranostics  Adds new chapters on nanoparticles, controlled drug release systems, theranostics, protein and peptide drugs, and biologics delivery

Book Information

Series: Wiley Series in Drug Discovery and Development (Book 19)

Hardcover: 720 pages

Publisher: Wiley; 2 edition (April 18, 2016)

Language: English

ISBN-10: 1118833368

ISBN-13: 978-1118833360

Product Dimensions: 6.3 x 1.8 x 9.4 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

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An indispensable tool for those working at the front lines of new drug development  The development of effective delivery systems is crucial to taking a drug from the discovery and development stages to successful clinical use. The advances of recent years in the pharmaceutical sciences, including from molecular biology and biotechnology, make the challenges of drug delivery higher and the need to train pharmaceutical scientists and students greater. Continuing the legacy of its successful predecessor, the second edition of Drug Delivery gets readers quickly up to speed on both the principles and latest applications in the increasingly important field of drug delivery.

Contributions from leading international experts allows Drug Delivery to cover the entire field in a systematic yet concise way. It begins with an in-depth review of key fundamentals that include developability factors, physiochemical and biological barriers, drug delivery pathways, pharmacokinetics and pharmacodynamics, and regulations and intellectual property. The remainder of the book systematically examines a host of specific subjects, including: Routes of drug administrationApproaches to improve deliveryTargeted drug delivery systemsDelivery of macromolecular drugs

Binghe Wang, PhD, is Regents' Professor of Chemistry and Associate Dean for Natural and Computational Sciences at Georgia State University as well as Georgia Research Alliance Eminent Scholar in Drug Discovery. He is Editor-in-Chief of the journal Medicinal Research Review and founding series editor of the Wiley Series in Drug Discovery and Development. He has published over 230 papers in medicinal chemistry, pharmaceutical chemistry, new diagnostics, and chemosensing. Longqin Hu, PhD, is Professor of Medicinal Chemistry and Director of the Graduate Program in Medicinal Chemistry at Rutgers University. Among his major research interests are the synthesis and evaluation of anticancer prodrugs for the targeted activation in tumor tissues and the discovery of novel small molecule inhibitors of protein-protein interactions. He has published over 80 papers and 8 patents in bioorganic and medicinal chemistry. Teruna Sahaan, PhD, is a Professor and Associate Chair of the Department of Pharmaceutical Chemistry and serves as the Director of the NIH Biotechnology Training Program at the University of Kansas. In addition to co-editing the first edition of Drug Delivery, he has written almost 195 journal papers and book chapters and received the 2014 PhRMA Foundation Award in Excellence in Pharmaceutics.

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