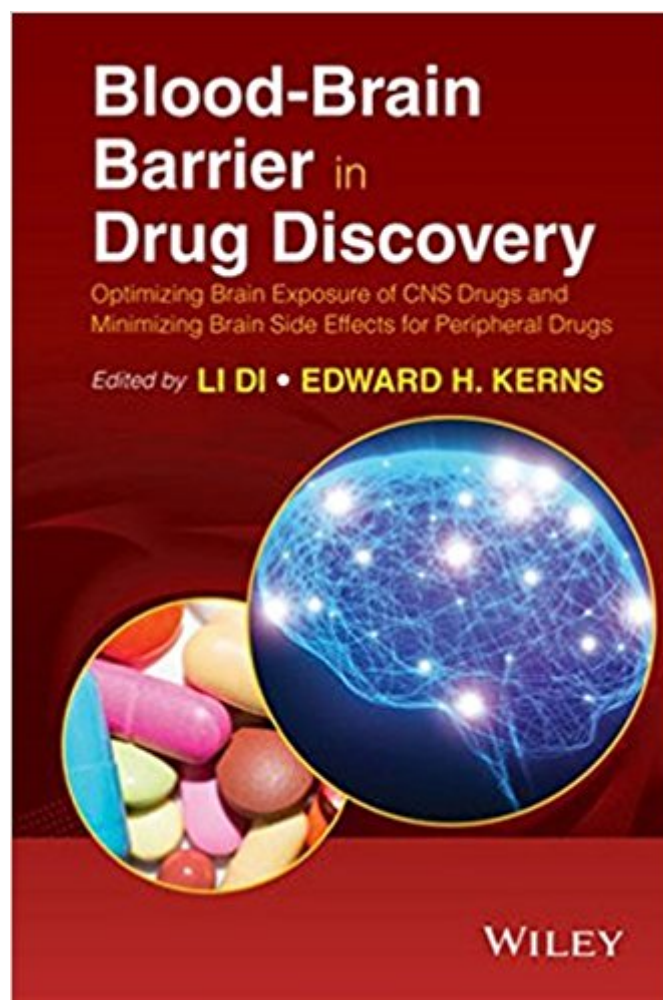




Ebook Directory
the best source of ebook

The book was found

Blood-Brain Barrier In Drug Discovery: Optimizing Brain Exposure Of CNS Drugs And Minimizing Brain Side Effects For Peripheral Drugs





Synopsis

Focused on central nervous system (CNS) drug discovery efforts, this book educates drug researchers about the blood-brain barrier (BBB) so they can affect important improvements in one of the most significant and most challenging areas of drug discovery.

- Written by world experts to provide practical solutions to increase brain penetration or minimize CNS side-effects
- Reviews state-of-the-art in silico, in vitro, and in vivo tools to assess brain penetration and advanced CNS drug delivery strategies
- Covers BBB physiology, medicinal chemistry design principles, free drug hypothesis for the BBB, and transport mechanisms including passive diffusion, uptake/efflux transporters, and receptor-mediated processes
- Highlights the advances in modelling BBB pharmacokinetics and dynamics relationships (PK/PD) and physiologically-based pharmacokinetics (PBPK)
- Discusses case studies of successful CNS and non-CNS drugs, lessons learned and paths to the market

Book Information

Hardcover: 600 pages

Publisher: Wiley; 1 edition (February 2, 2015)

Language: English

ISBN-10: 1118788354

ISBN-13: 978-1118788356

Product Dimensions: 6.3 x 1.4 x 9.2 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,022,218 in Books (See Top 100 in Books) #37 in Books > Medical Books > Pharmacology > Product Development #353 in Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Pain Medicine #711 in Books > Medical Books > Pharmacology > Pain Medicine

Customer Reviews

Central nervous system (CNS) drugs are a leading pharmaceutical area, since many CNS diseases remain untreated or without optimum drugs. Unfortunately, the blood-brain barrier (BBB) restricts access of drug molecules circulating in the blood stream to penetrate into the brain cells and that is where this important book steps in. With practical and proven solutions for CNS drug discovery efforts, this book educates drug researchers about the BBB so they can affect important improvements in one of the most significant and most challenging areas of

drug discovery. The chapters are written by world-class scientists actively engaged in CNS research from both academia and industry, applying this to more quickly discover and develop better drugs. Among the topics they review are state-of-the-art in silico, in vitro, and in vivo tools for assessing the BBB and advanced delivery technologies. Coverage includes fundamental knowledge about the BBB, implications of these restrictions on free drug exposure at the target in brain, pharmacokinetics (PK) and pharmacodynamics (PD) relationships (PK/PD), physiologically-based pharmacokinetic (PBPK) brain models, medicinal chemistry design principles, and case studies from successful CNS drug discovery. These case studies examine how the integration of data and design strategies advanced successful new drugs to market. A unique and valuable reference resource for practicing medicinal chemists, this book:

- Focuses on practical solutions of brain exposure problems faced by drug researchers
- Helps readers understand, control and measure the exposure of the drug candidates to the CNS
- Covers BBB physiology; medicinal chemistry design principles; free drug hypothesis for the BBB; and transport mechanisms including passive diffusion, uptake/efflux transporters and receptor-mediated processes
- Discusses case studies of successful CNS and non-CNS drugs, lessons learned and paths to the market

Li Di is an associate research fellow in the Pharmacokinetics, Dynamics, and Drug Metabolism Department at Pfizer Global Research and Development and has extensive experience in the pharmaceutical industry. She has over 100 publications, presented over 70 invited lectures, and teaches an American Chemical Society short course on drug-like properties. Edward Kerns worked in pharmaceutical research and development for over 30 years, was associate director at Wyeth and Bristol-Myers Squibb, then was at the NIH-National Center for Advancing Translational Sciences. He published over 90 journal papers or book chapters and 3 books, and teaches an American Chemical Society short course on drug-like properties.

[Download to continue reading...](#)

Blood-Brain Barrier in Drug Discovery: Optimizing Brain Exposure of CNS Drugs and Minimizing Brain Side Effects for Peripheral Drugs
BLOOD TYPE DIET : Eat recipes according to blood type(blood diet,blood type diet o,blood type diet b,blood type cookbook,blood type a diet,blood type a cookbook,blood type ab,blood type book)
Adult-Gerontology CNS Exam Secrets Study Guide: CNS Test Review for the Adult-Gerontology Clinical Nurse Specialist Exam
The Neuropathy Cure: How to Effectively Treat Peripheral Neuropathy - 2nd Edition (Peripheral Neuropathy, Diabetes, Intervention Therapy, Spinal Cord, Drug Therapy, Chronic Pain, Biofeedback Book 1)
Blood

Pressure: High Blood Pressure, Its Causes, Symptoms & Treatments for a long, healthy life.: Plus 9 Free Books Inside. (Blood Pressure, High Blood ... Hypertension, Blood Pressure Solutions.) Side-by-Side Hockey Stars: Comparing Pro Hockey's Greatest Players (Side-by-Side Sports) A Primer of Drug Action: A Concise, Non-Technical Guide to the Actions, Uses, and Side Effects of Psychoactive Drugs Discovery Map 85: Cork Kerry (Discovery Maps): Cork Kerry (Discovery Maps) (Irish Discovery Series) Handbook of Assay Development in Drug Discovery (Drug Discovery Series) Happy Brain: 35 Tips to a Happy Brain: How to Boost Your Oxytocin, Dopamine, Endorphins, and Serotonin (Brain Power, Brain Function, Boost Endorphins, Brain Science, Brain Exercise, Train Your Brain) 21st Century Pediatric Cancer Sourcebook: Brain and Spinal Cord Tumors - Neuroectodermal, Medulloblastoma, Glioma, Astrocytoma, Craniopharyngioma, Craniopharyngioma, CNS Tumors, Others Prescription Drugs: Understanding Drugs and Drug Addiction (Treatment to Recovery and Real Accounts of Ex-Addicts Volume III - Prescription Drugs Edition Book 3) A-Z Guide to Drug-Herb-Vitamin Interactions Revised and Expanded 2nd Edition: Improve Your Health and Avoid Side Effects When Using Common Medications and Natural Supplements Together Blood Pressure: Blood Pressure Solution : The Ultimate Guide to Naturally Lowering High Blood Pressure and Reducing Hypertension (Blood Pressure Series Book 1) Blood Pressure: Blood Pressure Solution: 54 Delicious Heart Healthy Recipes That Will Naturally Lower High Blood Pressure and Reduce Hypertension (Blood Pressure Series Book 2) Blood Pressure Solution: 30 Proven Natural Superfoods To Control & Lower Your High Blood Pressure (Blood Pressure Diet, Hypertension, Superfoods To Naturally Lower Blood Pressure Book 1) High Blood Pressure Cure: How To Lower Blood Pressure Naturally in 30 Days (Alternative Medicine, Natural Cures, Natural Remedies, High Blood Pressure ... Cures for High Blood Pressure, High BI) Photography Exposure: 9 Secrets to Master the Art of Photography Exposure in 24h or Less Finally Focused: The Breakthrough Natural Treatment Plan for ADHD That Restores Attention, Minimizes Hyperactivity, and Helps Eliminate Drug Side Effects PDR Guide to Drug Interactions, Side Effects, and Indications 2010

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)