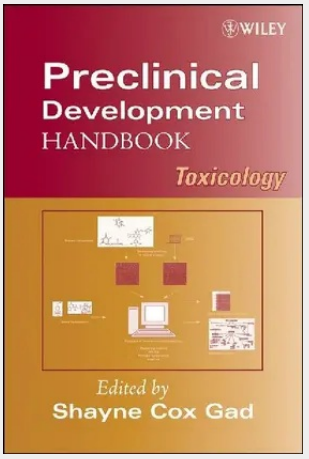
Gad

Preclinical Development Handbook

Toxicology



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A clear, straightforward resource to guide you through preclinical drug development Following this book's step-by-step guidance, you can successfully initiate and complete critical phases of preclinical drug development. The book serves as a basic,comprehensive reference to prioritizing and optimizing leads, toxicity, pharmacogenomics, modeling, and regulations. This single definitive, easy-to-use resource discusses all the issues that need consideration and provides detailed instructions for current methods and techniques. Each chapter was written by one or more leading experts in the field. These authors, representing the many disciplines involved in preclinical toxicology screening and testing, give you the tools needed to apply an effective multidisciplinary approach. The editor, with more than thirty years' experience working with pharmaceutical and biotechnology companies, carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear. Among the key topics covered are: * In vitro mammalian cytogenetics tests * Phototoxicity * Carcinogenicity studies * The pharmacogenomics of personalized medicine * Bridging studies * Toxicogenomics and toxicoproteomics Each chapter offers a full exploration of problems that may be encountered and their solutions. The authors also set forth the limitations of various methods and techniques used in determining the safety and efficacy of a drug during the preclinical stage. This is a hands-on guide for pharmaceutical scientists involved in preclinical testing,enabling them to perform and document preclinical safety tests to meet all FDA requirements before clinical trials may begin.

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Artikelnummer: 9780470248461
Medium: Buch
ISBN: 978-0-470-24846-1
Verlag: Wiley
Erscheinungstermin: 14.03.2008
Sprache(n): Englisch
Auflage: 1. Auflage 2008
Produktform: Gebunden
Gewicht: 1787 g
Seiten: 1080
Format (B x H): 187 x 261 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)