ADME and Translational Pharmacokinetics / Pharmacodynamics of Therapeutic Proteins: Applications in Drug Discovery and Development

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Hardcover  ISBN: 978-1-118-89864-2  November 2015  $156.00

DESCRIPTION

With an emphasis on the fundamental and practical aspects of ADME for therapeutic proteins, this book helps readers strategize, plan and implement translational research for biologic drugs.

• Details cutting-edge ADME (absorption, distribution, metabolism and excretion) and PKPD (pharmacokinetic / pharmacodynamics) modeling for biologic drugs
• Combines theoretical with practical aspects of ADME in biologic drug discovery and development and compares innovator biologics with biosimilar biologics and small molecules with biologics, giving a lessons-learned perspective
• Includes case studies about leveraging ADME to improve biologics drug development for monoclonal antibodies, fusion proteins, pegylated proteins, ADCs, bispecifics, and vaccines
• Presents regulatory expectations and industry perspectives for developing biologic drugs in USA, EU, and Japan
• Provides mechanistic insight into biodistribution and target-driven pharmacokinetics in important sites of action such as tumors and the brain
ABOUT THE AUTHOR

Honghui Zhou is a Senior Director and Janssen Fellow, at Janssen Research & Development, LLC and US head of Pharmacological and Translational Modeling. Board-certified by the American Board of Clinical Pharmacology and a Fellow of American Association of Pharmaceutical Scientists (AAPS) and American College of Clinical Pharmacology (ACCP), he has authored 200 peer-reviewed scientific papers, book chapters, and conference abstracts and co-edited the book *Drug-Drug Interactions for Therapeutic Biologics* (Wiley, 2013).

Frank-Peter Theil heads nonclinical development at UCB Biopharma. Dr. Theil has authored and co-authored 40 research publications, three book chapters and he has given numerous invited presentations at national and international scientific meetings. He is a member of the American Association of Pharmaceutical Scientists (AAPS) and American Society of Clinical Pharmacology and Therapeutics (ASCPT).

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