



Drug Metabolism and Pharmacokinetics Quick Guide

By Siamak Cyrus Khojasteh, Harvey Wong, Cornelis E.C.A. Hop



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This Quick Guide covers aspects of drug assessment at the drug discovery and development stages, including pharmacokinetics, absorption, metabolism, enzyme kinetics, drug transporters, drug interactions, drug-like properties, assays and in silico calculations.



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- Sales Rank: #1096880 in Books
- Published on: 2011-04-19
- Released on: 2011-04-19
- Original language: English
- Number of items: 1
- Dimensions: 8.00" h x .52" w x 5.00" l, .55 pounds
- Binding: Paperback
- 214 pages

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Editorial Review

Review

From the reviews:

“The authors have to be complimented with this comprehensive book of reference on various important topics in the field of pharmacokinetics and drug metabolism. It contains a large collection of figures and tables providing relevant and well-organized information. ... In conclusion, this is a valuable reference for workers in the field of pharmacokinetics and drug metabolism, providing a storehouse of information in a comprehensive book.” (Johannes H. Proost, International Journal of Clinical Pharmacology and Therapeutics, Vol. 50 (6), June, 2012)

“The authors intend the book to inform important decisions in a timely fashion ‘for synthesis of superior compounds that have the potential for being a safe and effective drug’. The summary format was designed to be clear, concise and self-explanatory, so it could be used on a daily basis to inform those design decisions. It achieves this goal. It is intended for all drug-discovery scientists, and researchers in all disciplines will certainly find it useful. ... In summary, this is a valuable little book.” (Andy Davis, ChemMedChem, Vol. 7, 2012)

“This guide can be used on a day-to-day basis as a useful reference for almost anyone, including students first learning these concepts, as well as scientists in the pharmaceutical industry hoping to apply these principles in their research. ... This is a nicely organized quick reference on basic concepts in pharmacokinetics and drug metabolism. It will be a useful addition to the libraries of a variety of readers, from students in the pharmaceutical sciences to accomplished researchers in drug development.” (Melissa M. Ranieri, Doody's Book Reviews, December, 2011)

From the Back Cover

Drug Metabolism and Pharmacokinetics Quick Guide is intended for broad readership of those interested in the discipline of drug metabolism and pharmacokinetics who work in drug discovery coming from the various disciplines, a background such as of medicinal chemistry, pharmacology, drug metabolism and pharmacokinetics, bioanalysis, clinical sciences, biochemistry, pharmaceutics or toxicology.

This guide provides, for the first time, a completely integrated look at multiple aspects of absorption, distribution, metabolism, and excretion (ADME) science in a summary format that is clear, concise and self-explanatory.

This book will be used and referenced frequently as it provides detailed figures and tables for data interpretation. Also included are brief yet relevant factoids that bring a real-world dimension to the discussion of drug metabolism and pharmacokinetics.

Key topics covered:

1. Pharmacokinetics

2. Drug metabolizing enzymes
3. Oral absorption
4. Transporters
5. Metabolism-based drug interactions
6. Biotransformation and bioactivation
7. Prediction of human pharmacokinetics
8. Bioanalysis
9. Physicochemical properties and drug-like properties
10. In silico tools
11. Approved drugs
12. Chemical nomenclature

About the Author

Dr. Siamak Cyrus Khojasteh received his BS from University of California at Berkeley and his PhD from University of Washington in Medicinal Chemistry under the direction of Dr. Sidney D. Nelson. Dr. Khojasteh leads the Metabolism efforts at Genentech (South San Francisco) and leads a team of about 20 scientists and prior to that he was a Senior Research Scientist at Pfizer (Groton, CT). His research interest is mechanism of biotransformation particularly with formation of reactive metabolites by P450 or non-P450 enzymes.

Harvey Wong graduated from the University of British Columbia with a Ph.D. in Pharmacokinetics and Biopharmaceutics. Following graduation, he worked at the DuPont Pharmaceuticals Company followed by Bristol-Myers Squibb in the area of Neuroscience Drug Discovery. Currently, Harvey is a Senior Scientist in the Department of Drug Metabolism and Pharmacokinetics at Genentech, Inc. working in the areas of oncology and immunology. He is involved in pharmacokinetic modeling and defining preclinical PK-PD relationships for drug candidates in both therapeutic areas. Harvey has published over 70 publications and abstracts.

Dr. Cornelis E.C.A. Hop is supervising the Small Molecule Drug Metabolism & Pharmacokinetics Department at Genentech (South San Francisco) and leads a team of about 55 scientists involved in acquisition and interpretation of ADME data in support of drug discovery and development. Before that he was a senior director at Pfizer (Groton, CT) and a Senior Research Fellow at Merck (Rahway, NJ). Dr. Hop has extensive experience in ADME sciences and biotransformation, PK prediction and bioanalysis in particular. He has authored more than 100 publications in refereed journals and several book chapters and made more than 50 external oral presentations at conferences and universities.

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