



Drug Metabolism Handbook: Concepts and Applications

By Ala F. Nassar

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A valuable reference tool for professionals involved in the industry, Drug Metabolism in Pharmaceuticals covers new tools such as LC-MS and LC-MS-NMR along with experimental aspects of drug metabolism. This work fills a gap in the literature by covering the concepts and applications of pharmaceutical research, development, and assessment from the point of view of drug metabolism. By providing both a solid conceptual understanding of the drug metabolism system, and a well illustrated, detailed demonstration and explanation of cutting edge tools and techniques, this book serves as a valuable reference tool for bench scientists, medical students, and students of general health sciences.

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Editorial Review

From the Back Cover

Explains All The Latest Tools And Technologies In Drug Metabolism

Drug Metabolism Handbook is dedicated to helping bench scientists take full advantage of the latest and most advanced tools and techniques in the field of drug metabolism. From creating new molecular entities to drug development to troubleshooting, the book explains the concepts of drug metabolism and guides readers through its applications in pharmaceutical research, development, and assessment.

Concise and easy to follow, *Drug Metabolism Handbook* offers:

- Succinct reviews of drug metabolism that underscore the importance of the human metabolic system as well as pharmacokinetics and drug interactions
- Thorough and carefully referenced reviews of most drug metabolism phase I and phase II metabolic enzymes
- Illustrative case studies that highlight the critical role of drug metabolism in the drug development process
- Descriptions of the latest findings and tools such as online H-D exchange, LC-ram, LC-MS/MS, and LC-MS-NMR
- Full coverage of recent FDA regulations and guidelines for drug safety

Each chapter is written by one or more leading experts in the field of drug metabolism. Contributions are based on the authors' own first hand experience at the bench as well as a thorough examination of the literature.

By combining a solid conceptual understanding of the drug metabolism system with detailed explanations of the latest cutting-edge tools and techniques, this book is essential reading for pharmaceutical scientists, students at universities, and all other researchers involved in drug development.

About the Author

Ala F. Nassar, PhD, provides technical and operational leadership in characterizing in vitro and in vivo metabolites. His research focuses on understanding how structure modification can improve the ADME profile for new chemical entities as they advance towards clinical candidacy. Recently, he identified and patented pharmacologically active metabolites of Nexavar®. Dr. Nassar serves on the Editorial Board of Drug Metabolism Letters and The Open Drug Metabolism Journal and is also a reviewer for several other journals.

Paul F. Hollenberg, PhD, is Maurice H. Seevers Collegiate Professor and Chair of Pharmacology at The University of Michigan. His current research focuses on the relationship between the structures of the active sites of cytochrome P450s and their catalytic function. Dr. Hollenberg was cofounder and Associate Editor of Chemical Research in Toxicology and has served on numerous editorial boards and review panels.

Joann Scatina, PhD, has over twenty-four years of drug metabolism experience, and is currently Vice President of the Drug Metabolism Division, Drug Safety and Metabolism, for Wyeth Research. Dr. Scatina's research interests include identification of metabolites, metabolic pathways and enzymes responsible, in

vitro-in vivo extrapolation, and prediction of drug interactions. She is a member of the American Society for Pharmacology and Experimental Therapeutics and the International Society for the Study of Xenobiotics (ISSX) and is currently serving on the Editorial Board of Drug Metabolism Reviews.

Users Review

From reader reviews:

Melinda Kendall:

Now a day people that Living in the era where everything reachable by connect with the internet and the resources included can be true or not demand people to be aware of each information they get. How people have to be smart in acquiring any information nowadays? Of course the reply is reading a book. Reading a book can help people out of this uncertainty Information specially this Drug Metabolism Handbook: Concepts and Applications book since this book offers you rich data and knowledge. Of course the knowledge in this book hundred percent guarantees there is no doubt in it you know.

Sally Staten:

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Gary Campbell:

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Tommy Wright:

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