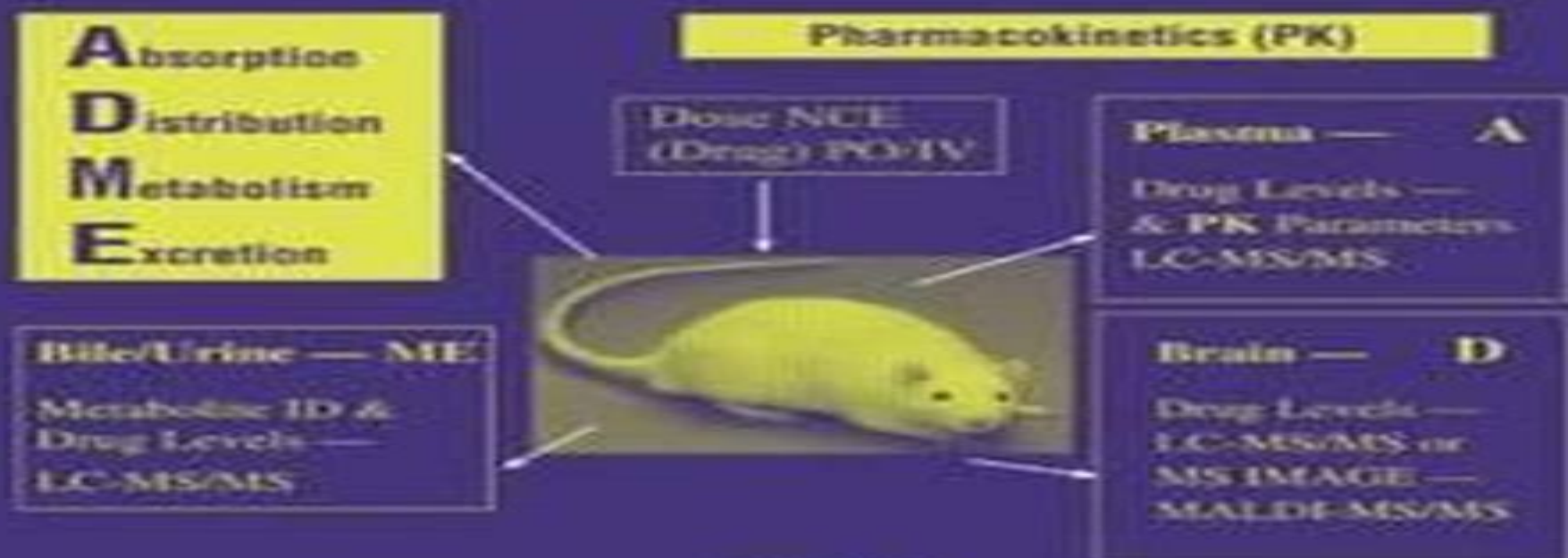


USING MASS SPECTROMETRY FOR DRUG METABOLISM STUDIES



EDITED BY

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Using Mass Spectrometry For Drug Metabolism Studies

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Mass Spectrometry in Drug Metabolism and Pharmacokinetics Ragu Ramanathan, 2011-09-20 This timely reference discusses mass spectrometry in drug metabolism and pharmacokinetic studies With contributions by professionals from the pharmaceutical industry this book begins with a review of current mass spectrometry techniques and applications followed by discussions of various methods for using MS in drug metabolism studies and pharmacokinetics Highlighting the critical importance of ADME studies for understanding how a drug is absorbed distributed metabolized and excreted by the body the book s focuses on the use of LC MS and MALDI MS This is a valuable reference for scientists in the pharmaceutical industry medicine academia and even those working in homeland defense

Mass Spectrometry in Drug Metabolism and Disposition Mike S. Lee, Mingshe Zhu, 2011-03-16 This book examines the background industrial context process analytical methodology and technology of metabolite identification It emphasizes the applications of metabolite identification in drug research While primarily a

textbook the book also functions as a comprehensive reference to those in the industry The authors have worked closely together and combine complementary backgrounds to bring technical and cultural awareness to this very important endeavor while serving to address needs within academia and industry It also contains a variety of problem sets following specific sections in the text **Mass Spectrometry in Drug Metabolism** Frigerio,2012-12-06 When a dose of drug is administered three main phases of drug action may be distinguished In the pharmaceutical phase the dosage form disintegrates the active substance dissolves and becomes available for absorption The second phase pharmacokinetic phase includes absorption distribution metabolism and excretion That fraction of the dose which finally reaches the circulation after absorption will be available for biological action in the third or pharmacodynamic phase when the drug reaches the target tissues and a drug receptor interaction takes place The objectives in studies of drug metabolism are a to identify the pathways by which drugs are transformed in the body b to ascertain quantitatively the importance of each pathway and intermediate c to identify and quantify endogenous constituents influenced by the drug or its metabolites which may interfere with common metabolic processes Since metabolites usually differ from their precursors by only a single chemical group the resulting metabolic pathways generally consist of a series of closely related compounds Mass spectrometry is uniquely suited for the analysis of drugs and metabolites for several reasons only a minimal amount of sample preparation is needed closely related compounds can be analyzed in a single step structures can often be deduced directly from the mass spectra without the need for pure reference spectra and constituents can be quantified with relative ease even when present in fractional nanogram quantity **Mass Spectrometry in Drug Metabolism** 3Island Press,1977-03-01

High-Throughput Analysis in the Pharmaceutical Industry Perry G. Wang,2008-08-20 The introduction of combinatorial chemistry technology has increased the amount of compounds generated in a year from 50 to 2000 Conventional analytical approaches simply cannot keep up These circumstances have caused drug discovery to take on the shape of a bottleneck like traffic through a toll booth In order to break the bottleneck a corres **Drug Metabolism Handbook** Ala F.

Nassar,2009-01-28 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 **Handbook of LC-MS**

Bioanalysis Wenkui Li,Jie Zhang,Francis L. S. Tse,2013-10-21 Consolidates the information LC MS bioanalytical scientists need to analyze small molecules and macromolecules The field of bioanalysis has advanced rapidly propelled by new approaches for developing bioanalytical methods new liquid chromatographic LC techniques and new mass spectrometric MS

instruments Moreover there are a host of guidelines and regulations designed to ensure the quality of bioanalytical results Presenting the best practices experimental protocols and the latest understanding of regulations this book offers a comprehensive review of LC MS bioanalysis of small molecules and macromolecules It not only addresses the needs of bioanalytical scientists working on routine projects but also explores advanced and emerging technologies such as high resolution mass spectrometry and dried blood spot microsampling Handbook of LC MS Bioanalysis features contributions from an international team of leading bioanalytical scientists Their contributions reflect a review of the latest findings practices and regulations as well as their own firsthand analytical laboratory experience The book thoroughly examines Fundamentals of LC MS bioanalysis in drug discovery drug development and therapeutic drug monitoring The current understanding of regulations governing LC MS bioanalysis Best practices and detailed technical instructions for LC MS bioanalysis method development validation and stability assessment of analyte s of interest Experimental guidelines and protocols for quantitative LC MS bioanalysis of challenging molecules including pro drugs acyl glucuronides N oxides reactive compounds and photosensitive and autooxidative compounds With its focus on current bioanalytical practice Handbook of LC MS Bioanalysis enables bioanalytical scientists to develop and validate robust LC MS assay methods all in compliance with current regulations and standards

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