

1. Record Nr.	UNINA9910806236703321
Titolo	Biotransformation and metabolite elucidation of xenobiotics // edited by Ala F. Nassar
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, 2010
ISBN	1-118-09777-7 1-282-78289-4 9786612782893 0-470-89038-X 0-470-89037-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (342 p.)
Altri autori (Persone)	NassarAla F
Disciplina	615.9
Soggetti	Xenobiotics - Metabolism Metabolites Biotransformation (Metabolism)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	BIOTRANSFORMATION AND METABOLITE ELUCIDATION OF XENOBIOTICS; CONTENTS; PREFACE; CONTRIBUTORS; CHAPTER 1: HUMAN BIOTRANSFORMATION; CHAPTER 2: ANALYTICAL TOOLS AND APPROACHES FOR METABOLITE IDENTIFICATION IN DRUG METABOLISM; CHAPTER 3: TOOLS OF CHOICE FOR ACCELERATING METABOLITE IDENTIFICATION: MASS SPECTROMETRY TECHNOLOGY DRIVES METABOLITE IDENTIFICATION STUDIES FORWARD; CHAPTER 4: IMPROVING DRUG DESIGN: CONSIDERATIONS FOR THE STRUCTURAL MODIFICATION PROCESS CHAPTER 5: CASE STUDY: THE UNANTICIPATED LOSS OF N2 FROM NOVEL DNA ALKYLATING AGENT LAROMUSTINE BY COLLISION-INDUCED DISSOCIATION: NOVEL REARRANGEMENTS CHAPTER 6: CASE STUDY: IDENTIFICATION OF IN VITRO METABOLITE/DECOMPOSITION PRODUCTS OF THE NOVEL DNA ALKYLATING AGENT LAROMUSTINE; CHAPTER 7: STRATEGIES FOR THE DETECTION OF REACTIVE INTERMEDIATES IN DRUG DISCOVERY AND DEVELOPMENT; CHAPTER 8: SAFETY TESTING OF DRUG METABOLITES: MIST GUIDANCE IMPACT ON

Sommario/riassunto

The goal of this book is to improve the readers' knowledge of metabolite elucidation in drug metabolism by exposing them to in depth coverage of the biotransformation of xenobiotics, strategies for identifying and characterizing metabolites, FDA guidelines, and case studies on how to improve the decision-making process in structural modification of drug candidates to reduce toxicity. The book consists of 8 chapters; it first provides an introduction on biotransformation of xenobiotics, and then presents modern approaches and strategies for dealing with metabolite characterization, using tool
