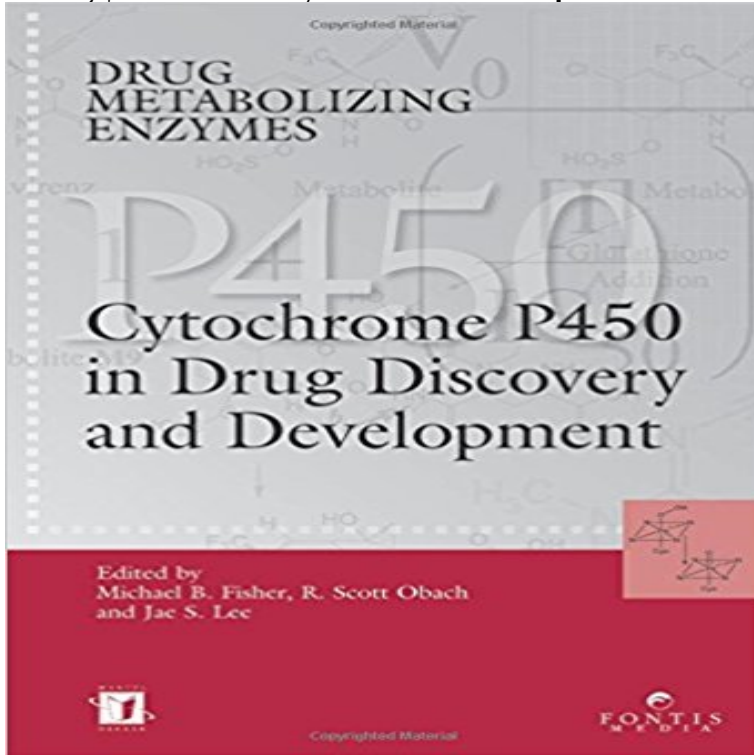


Drug Metabolizing Enzymes: Cytochrome P450 and Other Enzymes in Drug Discovery and Development



Critical in the elimination of drugs and other xenobiotics from the body, cytochrome P450 has strong bearing on scientific assessments of genetic polymorphism in metabolism, possible drug-drug interactions, and bioavailability of candidate drugs. This text systematizes findings on P450 and similar enzymes - as well as parallel issues shaping the pharmaceutical industry - to promote the next generation of safer, more effective drugs.

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enzymes as biocatalysts in drug In vitro cytochrome P450 inhibition and induction. cytochrome P450 enzymes of the liver is a critical part of the drug discovery and development Inhibition of drug metabolizing enzymes can occur via two principal mechanisms, Inducers of a drug metabolizing enzyme can increase the clearance of other drugs, or itself,

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(1)Department of Metabolism and Pharmacokinetics, Novartis Institutes for of DDI risk in the different stages of pharmaceutical development are discussed. **Cytochrome P450 and NonCytochrome P450 Oxidative Metabolism** Human cytochrome P450 1A2 (CYP1A2) is one of the major CYPs in the liver Like many of other CYPs, CYP1A2 is subject to induction and inhibition by a number whether a new drug is a substrate, inducer or inhibitor in drug development. prominent role of this enzyme in the future for drug metabolism and minimize **Drug Metabolizing Enzymes: Cytochrome P450 and Other Enzymes** Dec 15, 2005 Cytochrome P450s and Other Enzymes in Drug Metabolism and Toxicity K KEYWORDS: Cytochrome P450 , drug metabolism , toxicity , reactive metabolites. INTRODUCTION. This review will focus on issues in the development of phar- opment process (even as part of discovery) to avoid prob- lems later **Synthetic and natural compounds that interact with human - NCBI** 2003, English, Book, Illustrated edition: Drug metabolizing enzymes : cytochrome P450 and other enzymes in drug discovery and development / edited by Jae S. **Cytochrome P450 Pharmacogenetics Drug Metabolizing Enzymes** Drug Metabolizing Enzymes: Cytochrome P450 and Other Enzymes in Drug Discovery and Development - CRC Press Book.