Drug Metabolism and Disposition:
the biological fate of chemicals

July 1996
Vol. 24, No. 7

CONTENTS

ACCELERATED COMMUNICATION

Replacing 14C with Stable Isotopes in Drug Metabolism Studies. Fred P. Abramson, Yohannes Teferra, Joseph Kuszmerz, Rick C. Steenwyk, and Paul G. Pearson 697

ARTICLES

Lauramide Diethanolamine Absorption, Metabolism, and Disposition in Rats and Mice after Oral, Intravenous, and Dermal Administration. James M. Mathews, Kristi deCosta, and Brian F. Thomas 702

First-Pass Metabolism of Lidocaine in the Anesthetized Rabbit: Contribution of the Small Intestine. Khanh-Tuoc Lê, Hélène Maurice, and Patrick du Souich 711

Pathways of Metabolism of [1-14C]-Trans-Anethole in the Rat and Mouse. Stephen V. J. Bounds and John Caldwell 717


Effects of Hydrazine, Phenelzine, and Hydralazine Treatment on Rat Hepatic and Renal Drug-Metabolizing Enzyme Expression. Melissa Runge-Morris, Yi Feng, Richard C. Zangar, and Raymond F. Novak 734

Pharmacokinetics of Cidofovir in Monkeys: Evidence for a Prolonged Elimination Phase Representing Phosphorylated Drug. Kenneth C. Cundy, Zhen-Hong Li, Michael J. M. Hitchcock, and William A. Lee 738

Pharmacokinetics, Bioavailability, Metabolism, and Tissue Distribution of Cidofovir (HPMPC) and Cyclic HPMPC in Rats. Kenneth C. Cundy, Alison M. Bidgood, Geoffrey Lynch, Jeng-Pyng Shaw, Linda Griffin, and William A. Lee 745


Microsomal Codeine N-Demethylation: Cosegregation with Cytochrome P4503A Activity. Yoseph Cico, Tomonori Tateishi, F. Peter Guengerich, and Alastair J. J. Wood 761


Acute Dose-Dependent Disposition Studies of Nicotinic Acid in Rats. Masahiro Ishi, Taeo Ogiso, Hiroyasu Hayashi, Tadatoshi Tanino, and Leslie Z. Benet 773

Superoxide Does Not Inhibit Glyceryl Trinitrate-Rabbit Aortic Strip-Mediated Relaxation of Rabbit Taenia coli: Evidence Against a Role for Nitric Oxide Itself as the Smooth Muscle Active Drug Metabolite?. Amam S. Hussain, James F. Brien, Gerald S. Marks, and Kanji Nakatsu 780

Continued on next page
Contents (cont'd.)

Identification of Human Liver Cytochrome P450 Isoforms Involved in the In Vitro Metabolism of Cyclobenzaprine. Regina W. Wang, Lida Liu, and Haiyung Cheng .......................... 786

Uptake of Sulfate Conjugates by Isolated Rat Hepatocytes. Abdullah M. Hasse, Dennis Lam, Masato Chiba, Eugene Tan, Wanping Geng, and K. Sandy Pang .......................... 792

Identification and Characterization of Human Metabolites of CAI [5-amino-1-(4'-chlorobenzoyl-3,5-dichlorobenzyl)-1,2,3-triazole-4-carboxamide]. Mathew J. Souts, Herman J. Yeh, Kristina A. Cole, Noel Whittaker, Robert P. Weistro, and Elise C. Kohn .......................... 799

Cocaine and Alcohol Interactions in Naive and Alcohol-Pretreated Rats. Mohsen A. Hedaya and Wei-Jian Pan .......................... 807