

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 TEFFERA, JOSEF KUSMIERZ, 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 DE COSTA, 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
- Differential Expression of Glutathione S-Transferase Isoforms in Compartments of the Testis and Segments of the Epididymis of the Rat. JAY GANDY, THOMAS PRIMIANO, RAYMOND F. NOVAK, WILLIAM R. KELCE, AND J. LYNDA L. YORK 725
- 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
- Pharmacokinetics and Disposition of L-692,429: A Novel Nonpeptidyl Growth Hormone Secretagogue in Preclinical Species. KWAN H. LEUNG, DOSINDA A. COHN, RANDALL R. MILLER, GEORGE A. DOSS, RALPH A. STEARNS, ROBERT E. SIMPSON, WILLIAM P. FEENEY, AND SHUET-HING LEE CHIU 753
- Microsomal Codeine *N*-Demethylation: Cosegregation with Cytochrome P4503A4 Activity. YOSEPH CARACO, TOMONORI TATEISHI, F. PETER GUENGERICH, AND ALASTAIR J. J. WOOD 761
- Biotransformation of Allyl Chloride in the Rat: Influence of Inducers on the Urinary Metabolic Profile. BEN M. DE ROOL, JAN N. M. COMMANDEUR, ED J. GROOT, PIETER J. BOOGAARD, AND NICO P. E. VERMEULEN 765
- Acute Dose-Dependent Disposition Studies of Nicotinic Acid in Rats. MASAHIRO IWAKI, TARO OGISO, HIROKAZU 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?. AMAN 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. HASSEN, 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. SOLTIS, HERMAN J. YEH, KRISTINA A. COLE, NOEL WHITTAKER, ROBERT P. WERSTO, AND ELISE C. KOHN 799

Cocaine and Alcohol Interactions in Naive and Alcohol-Pretreated Rats. MOHSEN A. HEDAYA AND WEI-JIAN PAN 807