

Drug Metabolism and Disposition: the biological fate of chemicals

December 1996

Vol. 24, No. 12

CONTENTS

ACCELERATED COMMUNICATION

- Identification of 6',7'-Dihydroxybergamottin, a Cytochrome P450 Inhibitor, in Grapefruit Juice. DAVID J. EDWARDS, FRANK H. BELLEVUE III, AND PATRICK M. WOSTER 1287

ARTICLES

- Retention Mechanism of Imidazoles in Connective Tissue. I. Binding to Elastin. KATSUI OHTA, JUN-ICHI YAMAGUCHI, MASAYUKI AKIMOTO, KIYOMI FUKUSHIMA, TOSHIO SUWA, AND SHOJI AWAZU . . . 1291

- Sex-Dependent Pharmacokinetics of Indinavir: *In Vivo* and *In Vitro* Evidence. JUNN H. LIN, MASATO CHIBA, I.-WU CHEN, JOY A. NISHIME, AND KARI J. VASTAG 1298

- Characterization of the NADPH-Dependent Covalent Binding of [¹⁴C]Halothane to Human Liver Mitochondria: A Role for Cytochrome P4502E1 at Low Substrate Concentrations. AJAY MADAN AND ANDREW PARKINSON 1307

- Stable Expression and Coexpression of Human Cytochrome P450 Oxidoreductase and Cytochrome P450 1A2 in V79 Chinese Hamster Cells: Sensitivity to Quinones and Biotransformation of 7-Alkoxyresorufins and Triazines. WOLFGANG A. SCHMALIX, DIETER LANG, ANNELIESE SCHNEIDER, RONALD BOCKER, HELMUT GREIM, AND JOHANNES DOEHMER 1314

- Structural Characteristics of Flavin-Containing Monooxygenase Genes One and Two (*FMO1* and *FMO2*). M. KEITH WYATT, RICHARD M. PHILPOT, GERALDINE CARVER, MICHAEL P. LAWTON, AND KAVE N. NIKBAKHT 1320

- Human Jejunal Estrogen Sulfotransferase and Dehydroepiandrosterone Sulfotransferase: Immunohistochemical Characterization of Individual Variation. CHENGTAO HER, CAROL SZUMLANSKI, IBRAHIM A. AKSOY, AND RICHARD M. WEINSHILBOUM 1328

- Inhibition of (Mono)amine Oxidase Activity and Prevention of Ifosfamide Encephalopathy by Methylene Blue. C. AESCHLIMANN, T. CERNY, AND A. KÜPFER 1336

- Pharmacokinetic Analysis of Chloral Hydrate and Its Metabolism in B6C3F1 Mice. RICHAT R. ABBAS, CONNIE S. SECKEL, JAY K. KIDNEY, AND JEFFREY W. FISHER 1340

- Does Hepatic ATP Depletion Impair Glycine Conjugation *In Vivo*? ZOLTÁN GREGUS, TIBOR FEKETE, ÉVA HALÁSZI, AND CURTIS D. KLAASSEN 1347

- Pharmacokinetics of the Chemoprophylactic and Chemotherapeutic Trypanocidal Drug Isometamidium Chloride (Samorin) in Cattle. MARK C. EISLER 1355

- Catalysis of the Dealkylation/Debenzylation of Phenoxazone Ethers by Hemoglobin in the Absence of Peroxides: Implications for Investigations of Embryonic Biotransformation. MONT R. JUCHAU, DENNIS E. CHAPMAN, HSUEH-YING L. YANG, QWHEE P. LEE, MOSES J. NAMKUNG, AND THOMAS R. HINDS 1362

- Orally Active Inhibitors of Human Leukocyte Elastase. I. Disposition of L-683,845 in Rats and Rhesus Monkeys. STYLIANI H. VINCENT, SUSAN K. PAINTER, PHIL A. KRIETER, ADRIA E. COLLETTI, ERICKA LYSZACK, AVERY ROSEGAY, DENNIS DEAN, DEBRA LUFFER-ATLAS, RANDY R. MILLER, CHRIS CIOFFE, AND SHUET-HING L. CHIU 1369

Continued on next page

Contents (cont'd.)

Conjugation of *Para*-Nitrophenol by Isolated Perfused Fetal Sheep Liver. JOHN A. RING, HANY GHABRIAL, MICHAEL S. CHING, ARTHUR SHULKES, RICHARD A. SMALLWOOD,, AND DENIS J. MORGAN . **1378**

Meeting Report: Receptor-Acting Xenobiotics and Their Risk Assessment. ALAN D. POLAND **1385**

Disposition of Indinavir, A Potent HIV-1 Protease Inhibitor, After an Oral Dose in Humans. SURESH K. BALANI, ERIC J. WOOLF, VICKI L. HOAGLAND, MARC G. STURGILL, PAUL J. DEUTSCH, KUANG C. YEH, AND JIUNN H. LIN **1389**

Characterization of Intermediates in the Oxidation of Zinc Fingers in Human Immunodeficiency Virus Type 1 Nucleocapsid Protein P7. YETRIE HATHOUT, DANIELE FABRIS, MARK S. HAN, RAYMOND C. SOWDER II, LOUIS E. HENDERSON, AND CATHERINE FENSELAU **1395**

SHORT COMMUNICATION

Roles of Cytochrome P4502C9 and Cytochrome P4502C19 in the Stereoselective Metabolism of Phenytoin to Its Major Metabolite. MANOJ BAJPAL, LORIN K. ROSKOS, DANNY D. SHEN, RENÉ H. LEVY **1401**

Author Index **1404**

Subject Index **1408**