CONTENTS

ARTICLES


Inhibition of the Intestinal Digoxin Absorption and Exsorption by Quinidine. SHENG-FANG SU AND JIN-DING HUANG

Tissue Distribution and Pharmacokinetics of Centchroman: A New Nonsteroidal Postcoital Contraceptive Agent and Its 7-Desmethyl Metabolite in Female Rats after a Single Oral Dose. J. K. PALIWAL AND R. C. GUPTA

Absorption, Distribution, Metabolism, and Excretion of N,N-Diethyle-M-Toluamide in the Rat. GERALD P. SCHENGI, RALPH E. HARTNAGEL, JR., THOMAS G. OSIMUN, AND SARI LLANSO

Metabolic Interactions of Putative Cytochrome P4503A Substrates with Alternative Pathways of Dapsone Metabolism in Human Liver Microsomes. YACOUB IRSHAID, ROBERT A. BRANCH, AND ADEDAYO ADEDOYIN


Hydroxylation of Lauramide Diethanolamine by Liver Microsomes. JAMES MERDINK, KRISTI DE COSTA, JAMES M. MATHEWS, CARLTON B. JONES, JANICE RICE OKITA, AND RICHARD T. OKITA

In Vitro and In Vivo Biotransformation of 6,7-Dimethyl-2,4-di-1-pyrroolidinyl-7H-pyrrolo[2,3-d]pyrimidine (U-89843) in the Rat. ZHIYANG ZHAO, KENNETH A. KOEPLINGER, GORDON L. BUNDY, LEE S. BARNETT, GUY E. PADBURY, MICHAEL J. HAUER, AND PHILLIP E. SANDERS

Involvement of Mammalian Liver Cytosols and Aldehyde Oxidase in Reductive Metabolism of Zonisamide. KAZUMI SUGIHARA, SHIGEYUKI KITAMURA, AND KIYOSHI TATSUMI

Modeling the Cytochrome P450-Mediated Metabolism of Chlorinated Volatile Organic Compounds. CHRIS L. WALLER, MARINA V. EVANS, AND JAMES D. MCKINNEY

Comparison of Ketoconazole and Fluconazole as Cytochrome P450 Inhibitors: Use of Steady-State Infusion Approach to Achieve Plasma Concentration-Response Relationships. CHRISTOPHER M. ERVINE, DIANE E. MATTHEW, BEVERLEY BRENNAN, AND J. BRIAN HOUSTON


Continued on next page
Contents (cont’d.)

Biotransformation of Lifibrol (U-83860) to Mixed Glyceride Metabolites by Rat and Human Hepatocytes in Primary Culture. E. L. Sun, K. L. Feenstra, F. P. Bell, P. E. Sanders, J. G. Slater, and R. G. Ulrich ........................................ 221


Effect of 3-Methylcholanthrene on Bunitrolol Metabolism: Kinetics and Immunological Studies on 4-Hydroxylation of Bunitrolol Catalyzed by Two Species of Cytochromes P450 in Rat Liver Microsomes. Shoichi Fujita, Makihiko Masuda, Yoshinori Shimamoto, Hidenobu Hoshi, Satoru Kariya, Akio Kazusaka, and Tokui Suzuki .......... 254

Putative Active Site Template Model for Cytochrome P4502C9 (Tolbutamide Hydroxylase). B. C. Jones, G. Hawksworth, V. A. Horne, A. Newlands, J. Morsman, M. S. Tute, and D. A. Smith ................................................................. 260

SHORT COMMUNICATIONS

Pharmacokinetics and Biodistribution of 131I-Labeled Trigalactose Conjugate of Streptavidin. Mazza Hashmi and Scott F. Rosebraugh ........................................ 267

Influence of Probenecid on the Renal Excretion Mechanisms of Cefadroxil. María José Gimeno, Mauricio Martínez, Luis Granero, Francisca Torres-Molina, and José-Esteban Peris .......... 270