

Drug Metabolism and Disposition: the biological fate of chemicals

November/December 1992

Vol. 20, No. 6

CONTENTS

Review: Peroxisome Proliferators, A Unique Set of Drug-Metabolizing Enzyme Inducers: Commentary on a Symposium. DAVID E. MOODY, G. GORDON GIBSON, DAVID F. GRANT, JACQUES MAGDALOU, AND M. SAMBASIVA RAO	779	Stereoselective Sulfoxidation by Human Flavin-Containing Monooxygenase: Evidence for Catalytic Diversity Between Hepatic, Renal, and Fetal Forms. A. J. M. SADEQUE, A. C. EDDY, G. P. MEIER, AND A. E. RETTIE	832
Induction of P-450 Cytochromes 2E2, 1A1, and 1A2 by Imidazole in Neonatal Rabbits. XINXIN DING, HWEI-MING PENG, STEVEN J. PERNECKY, CAROLE J. DAVIS, AND MINOR J. COON	792	Characterization of Metabolites of Xylazine Produced <i>in Vivo</i> and <i>in Vitro</i> by LC/MS/MS and by GC/MS. A. E. MUTLIB, Y. C. CHUI, L. M. YOUNG, AND F. S. ABBOTT	840
Phenobarbital and Dexamethasone Induce Expression of Cytochrome P-450 Genes From Subfamilies IIB, IIC, and IIIA in Mouse Liver. LAURENT CORCOS	797	Metabolism and Disposition of Gemcitabine, an Oncolytic Deoxycytidine Analog, in Mice, Rats, and Dogs. LISA A. SHIPLEY, THOMAS J. BROWN, J. DAVID CORNPROPST, MARTA HAMILTON, WILLIAM D. DANIELS, AND HILMAN W. CULP	849
Cyclosporin A Metabolism in Human Liver, Kidney, and Intestine Slices: Comparison to Rat and Dog Slices and Human Cell Lines. ALISON E. M. VICKERS, VOLKER FISCHER, SUZANNE CONNORS, ROBYN L. FISHER, JEAN-PIERRE BALDECK, GERARD MAURER, AND KLAUS BRENDDEL	802	Pharmacokinetics of Oral Methamphetamine and Effects of Repeated Daily Dosing in Humans. C. EDGAR COOK, A. ROBERT JEFFCOAT, BRIAN M. SADLER, JUDITH M. HILL, ROBERT D. VOYKSNER, DOROTHY E. PUGH, W. REID WHITE, AND MARIO PEREZ-REYES	856
Pharmacokinetics and Pharmacodynamics of Valproate Analogs in Rats. III. Pharmacokinetics of Valproic Acid, Cyclohexanecarboxylic Acid, and 1-Methyl-1-cyclohexanecarboxylic Acid in the Bile-Exteriorized Rat. MEI-JEN LIU, KIM L. R. BROUWER, AND GARY M. POLLACK	810	Pharmacokinetic Analysis of the Metabolism of Cocaine to Norcocaine and <i>N</i> -Hydroxynorcocaine in Mice. C. SCOTT BOYER AND DENNIS R. PETERSEN	863
Metabolism of 3- <i>Tert</i> -butyl-4-hydroxyanisole by Horseradish Peroxidase and Hydrogen Peroxide. KAZUO TAJIMA, MARI HASHIZAKI, KENJI YAMAMOTO, AND TAMIO MIZUTANI	816	Metabolism of a New HIV-1 Reverse Transcriptase Inhibitor, 3-[2-(Benzoxazol-2-yl)ethyl]-5-ethyl-6-methylpyridin-2(1H)-one(L-696,229), in Rat and Liver Slices. SURESH K. BALANI, STEVEN M. PITZENBERGER, LAURA R. KAUFFMAN, BRYON H. ARISON, HARRI G. RAMJIIT, MARK E. GOLDMAN, JULIE A. O'BRIEN, JOYCE D. KING, JACOB M. HOFFMAN, CLARENCE S. ROONEY, AND ANTHONY D. THEOHARIDES	869
Simultaneous Modeling of the Pharmacokinetic and Pharmacodynamic Properties of Enalkiren (Abbott-64662, a New Renin Inhibitor) I: Single Dose Study. SAMIR K. GUPTA, G. RICHARD GRANNE-MAN, ROBERT S. BOGER, NORMAN K. HOLLENBERG, AND ROBERT R. LUTHER	821	Specific and Enantioselective Sulfoxidation of an Aryl-trifluoromethyl Sulfide by Rat Liver Cytochromes P-450. ETIENNE BENOIT, THIERRY CRESTEIL, JEAN-LOUIS RIVIERE, AND PAUL DELATOUR	877
Pharmacokinetic Profile of Theophylline in Isolated Perfused Liver of Rabbits at Different Ages: Development of Drug-Metabolizing Activity During Ontogenesis. MONICA CORADA, ANGELA BORTOLLOTTI, MARIA MONICA BARZAGO, ANTONIO CELARDO, MAURIZIO BONATI, AND AMALIA GUAITANI	826	Microbial Models of Mammalian Metabolism: <i>N</i> -Dealkylation of Furosemide to Yield the Mammalian Metabolite CSA using <i>Cunninghamella elegans</i> . MEHRI HEZARI AND PATRICK J. DAVIS	882

Continued on next page

Contents (cont'd.)

Role of Guinea Pig and Rabbit Hepatic Aldehyde Oxidase in Oxidative <i>in Vitro</i> Metabolism of Cinchona Antimalarials. CHRISTINE BEEDHAM, YOUSUF AL-TAYIB, AND JOHN A. SMITH	889	Clinical Pharmacology of Combined Oral Uracil and Florafur. DAH H. HO, WENDY P. COVINGTON, RICHARD PAZDUR, NITA S. BROWN, JUN KURITANI, ROBERT A. NEWMAN, MARTIN N. RABER, AND IRWIN H. KRAKOFF	936
Studies of Tertiary Amine UDP-Glucuronosyltransferases from Human and Rabbit Hepatic Microsomes. P. B. STYCZYNSKI, M. D. GREEN, B. COFFMAN, AND T. R. TEPHLY	896	Investigation of Conjugated Metabolites of 4-Hydroxyandrost-4-ene-3,17-dione in Patient Urine by Liquid Chromatography-Atmospheric Pressure Ionization Mass Spectrometry. G. K. POON, Y. C. CHUI, M. JARMAN, M. G. ROWLANDS, P. S. KOKKONEN, W. M. A. NIESSEN, AND J. VAN DER GREEF	941
Substrates for Microsomal Azoreductase: Hammett Substituent Effects, NMR Studies, and Response to Inhibitors. SHMUEL ZBAIDA, C. FRED BREWER, AND WALTER G. LEVINE	902	Oxidation of Aldose Reductase Inhibitors ALO-4114 and ALO-3152 Catalyzed by Liver Microsomes. A. D. KISS, K. HAGGARD, J. C. VELTMAN, AND D. M. ZIEGLER	948
Pharmacokinetics of D (+)-Usnic Acid in Rabbits after Intravenous and Oral Administration. D. R. KRISHNA AND D. VENKATARAMANA	909	SHORT COMMUNICATIONS	
Oxidation of Carbovir, a Carbocyclic Nucleoside, by Rat Liver Cytosolic Enzymes: Enantioselectivity and Enantiomeric Inhibition. JAMES E. PATANELLA AND JOHN S. WALSH	912	Disposition of the Human Immunodeficiency Virus Tat Inhibitor, Ro5-3335, in Rats and Dogs. CHRISTOPHER TOWN, DAVID CHANG, LAURA HENDERSON, AND WILLIAM A. GARLAND	954
Disposition and Metabolism of Triprolidine in Mice. DONNA L. DEAL, PISAL CHANDRASURIN, JOHN SHOCKCOR, DOUGLAS J. MINICK, JOHN W. A. FINDLAY, AND MICHAEL J. McNULTY	920	Formation of Indenesulfonylureas in the Metabolism of the Anticancer Agent Sulofenur in Rats, Monkeys, and Humans. WILLIAM J. EHLHARDT, JOHN L. ZIMMERMANN, JAMES E. RAY, AND JOHN E. TOTH	958
Disposition of Triprolidine in the Male Beagle Dog. MICHAEL J. McNULTY, DONNA L. DEAL, TANYA L. PAGE, PISAL CHANDRASURIN, AND JOHN W. A. FINDLAY	928	Covalent Binding of Etodolac Acyl Glucuronide to Albumin <i>in Vitro</i> . PHILIP C. SMITH, WEI Q. SONG, AND ROSITA J. RODRIGUEZ	962
		Author Index	967
		Subject Index	970