Drug Metabolism and Disposition: the biological fate of chemicals

January 1996 Vol. 24, No. 1

CONTENTS

ACCELERATED COMMUNICATION
JEFFREY P. JONES, MINXIA HE, WILLIAM F. TRAGER, AND ALLAN E. RETTIE

ARTICLES
Trout Liver Slices for Metabolism and Toxicity Studies. YASMIN SINGH, JANIS B. COOKE, DAVID E. HINTON, AND MARION G. MILLER

Cytochrome P4502E1- and Cytochrome P4502B1/2B2-Catalyzed Carbon Tetrachloride Metabolism: Effects on Signal Transduction as Demonstrated by Altered Immediate-Early (c-Fos and c-Jun) Gene Expression and Nuclear AP-1 and NF-kB Transcription Factor Levels. ANDREA GRUEBELE, KIMBERLY ZAWASKI, DAVID KAPLAN, AND RAYMOND F. NOVAK

Erythromycin as a Specific Substrate for Cytochrome P4503A Isozymes and Identification of a High-Affinity Erythromycin N-Demethylase in Adult Female Rats. XU-JIE ZHANG AND PAUL E. THOMAS


The Pharmacokinetics and Extra-Heaptic Clearance of Remifentanil, a Short Acting Opioid Agonist, in Male Beagle Dogs during Constant Rate Infusions. J. P. CHISM AND D. E. RICKERT

N-Acetyl-S-(1,2,2-trichlorovinyl)-L-cysteine and 2,2,2-Trichloroethanol: Two Novel Metabolites of Tetrachloroethene in Humans after Occupational Exposure. GERHARD BIRNER, ANITA RUTKOWSKA, AND WOLFGANG DEKANT

Pharmacokinetics of Stable Isotopically Labeled l-Histidine in Humans and the Assessment of In Vivo Histidine Ammonia Lyase Activities. TAKASHI FURUTA, KAZUHIRO OKAMIYA, HIROMI SHIBASAKI, AND YASUJI KASUYA

Synthesis of Putative Metabolites and Investigation of the Metabolic Fate of Gliclazide, [1-(3-Azabicyclo[3.3.0]oct-3-yl)-3-(4-methylphenylsulfonfonyl)urea], in Diabetic Patients. ALBERT R. TAYLOR, ROBIN D. BROWNSILL, HUBERT GRANDON, FRANCOIS LEFOULON, ALAIN PETIT, WIM LUIJTEN, PETER G. KOPELMAN, AND BERNARD WALther


Participation of Cytochromes P4502B and P4503A in Cocaine Toxicity in Rat Hepatocytes. TORKA S. POET, CHARLENE A. MCQUEEN, AND JAMES R. HALPERT

Mouse Liver Microsomal Metabolism of Chlortal Hydrate, Trichloroacetic Acid, and Trichloroethanol Leading to Induction of Lipid Peroxidation via a Free Radical Mechanism. YI-CHANG NI, TIT-YEE WONG, ROGER V. LLOYD, THOMAS M. HEINZE, SHARON SHELTON, DANIEL CASCIANO, FRED F. KADLUBAR, AND PETER F. FU

Continued on next page

Disposition Kinetics of Human Epidermal Growth Factor (hEGF1–53) and Its Truncated Fragment (hEGF1–48) in Rats. Be-Sheng Kuo, Gerald D. Nordblom, Richard C. Dudeck, Lorraine S. Kirkish, and D. Scott Wright 96

The 3-Hydroxypyridin-4-ones More Effectively Chelate Aluminum in a Rabbit Model of Aluminum Intoxication Than Does Desferrioxamine. Robert A. Yokel, Kathryn A. Meurer, Thomas L. Skinner, and Andrea M. Fredenburg 105


Identification of β-Glucuronidase-Resistant Diastereomeric Glucuronides of 3-Hydroxy-3-methyloxindole Formed during 3-Methylindole Metabolism in Goats. David J. Smith, Martin L. Appleton, James R. Carlson, and Garold S. Yost 119