Drug Metabolism and Disposition: the biological fate of chemicals

March/April 1994 Vol. 22, No. 2

CONTENTS

Disposition of the Angiotensin II Receptor Antagonist L-158,809 in Rats and Rhesus Monkeys. ADRIA E. COLLETTI AND PHILIP A. KRIETER 183

Use of Rat and Human in Vitro Systems to Assess the Effectiveness and Enzymology of Deoxyguanine Analogs as Prodrugs of an Antiviral Agent. A. W. HARRELL, S. M. WHEELER, P. EAST, S. E. CLARKE, AND R. J. CHENERY 189

Absorption and Disposition of SDZ IMM 125, a New Cyclosporine Derivative, in Rats after Single and Repeated Administration. A. BRUELISAUER, R. KAWAI, P. MISSLIN, AND M. LEMAIRE 194

Metabolism of 3-[2-Benzoxazol-2-yl]ethyl]-5-ethyl-6-methylpyridin-2(1H)-one (L-696,229), an HIV-1 Reverse Transcriptase Inhibitor, by Rat Liver Slices and in Humans. SURESH K. BALANI, LAURA R. KAUFFMAN, BYRON H. ARISON, TIMOTHY V. OLAH, MARK E. GOLDMAN, SANDOR L. VARGA, JULIE A. O'BRIEN, HARRI G. RAMJIT, CLARENCE S. ROONEY, JACOB M. HOFFMAN, AND STEVEN M. PITZENBERGER 200

Solvolytic Formation of 1,2-Dichloro-3,4-epoxybutane from Butadiene Monoxide under Physiological Conditions. XIAOQIN CHENG, CHRISTOPHE MANIGLIER-POULE, DAVID ROSS, AND JAMES A. RUTH 206


Dispositional Characteristics of a Tyrosine Kinase Inhibitor (RG 14620) in Rats and Rabbits following Intravenous Administration or Dermal Application. VINOD K. KHETARPAL, PETER M. MARKHAM, AND JOHN A. ZIEMNIKA 216

Bile Flow but Not Enterohepatic Recirculation Influences the Pharmacokinetics of Ranitidine in the Rat. A. BENJAMIN SUTTLE AND KIM L. R. BROUWER 224

The Pharmacokinetics of 1,3-di(4-Imidazolino-2-methoxyphenox)-propane-Lactate (DMP-Lactate), A New Agent against Opportunistic Infections, in Male Beagle Dogs. IHOR BEKERSKY, R. JAMES PUHL, GLEN HANSON, AND SEYMOUR MONG 233

Metabolic Kinetics of Pseudoracemic Propranolol in Human Liver Microsomes: Enantioselectivity and Quinidine Inhibition. PUNIT H. MARATHE, DANNY D. SHEN, AND WENDEL L. NELSON 237

Induction and Regulation of CYP2E1 in Murine Liver after Acute and Chronic Acetone Administration. P. G. FORKERT, ZAHREIN M. REDZA, STEVE MANGOS, SANG S. PARK, AND SHUI-PANG TAM 248


The Polymorphic Cytochrome P-4502D6 Is Involved in the Metabolism of Both 5-Hydroxytryptamine Antagonists, Tropisetron and Ondansetron. V. FISCHER, A. VICKERS, F. HEITZ, S. MAHADEVAN, J.-P. BALDECK, P. MINERY, AND R. TYNES 269

Pharmacokinetic Study of p-Chloronitrobenzene in Rat. TOSHIKAZU YOSHIDA 275

In Vitro Metabolism of L-696,229, an HIV-1 Reverse Transcriptase Inhibitor in Rats and Humans: Hepatic and Extrahepatic Metabolism and Identification of Enzymes Involved in the Hepatic Metabolism. THOMAYANT PRUEKSARATHON, LYNN M. DWYER, SURESH K. BALANI, AND ANTHONY D. THEOHARIDES 281

Continued on next page
ANNOUNCEMENT

Effective January 1, 1994 all manuscripts for submission to DRUG METABOLISM AND DISPOSITION: THE BIOLOGICAL FATE OF CHEMICALS should be sent to:

Raymond F. Novak, Editor
Institute of Chemical Toxicology
Wayne State University
2727 Second Avenue, Room 4000
Detroit, Michigan 48201-2654
Telephone 313-961-4943
Fax 313-577-0082