

Drug Metabolism and Disposition:

the biological fate of chemicals

March/April 1992

Vol. 20, No. 2

CONTENTS

Influence of P-4502E1 Induction on Benzene Metabolism in Rat Hepatocytes and on Biliary Metabolite Excretion. D. SCHRENK, M. INGELMAN-SUNDBERG, AND K. W. BOCK	137	Metabolism of Isoniazid by Activated Leukocytes: Possible Role in Drug-Induced Lupus. ANGELA H. HOFSTRA, S. M. ANGELA LI-MULLER, AND JACK P. UETRECHT	205
Identification of the Antibiotic Hops Component, Colupulone, as an Inducer of Hepatic Cytochrome P-4503A in the Mouse. GILBERT J. MANNERING, JANICE A. SHOEMAN, AND LAUREL B. DELORIA	142	Systemic Pharmacokinetics of Acitretin, Etretinate, Isotretinoin, and Acetylenic Retinoids in Guinea Pigs and Obese Rats. DU-SHIENG CHIEN, RHONDA B. SANDRI, AND DIANE D.-S. TANG-LIU	211
Disposition and Pharmacokinetics of [¹⁴ C]Finasteride after Oral Administration in Humans. J. R. CARLIN, P. HÖGLUND, L.-O. ERIKSSON, P. CHRISTOFALO, S. L. GREGOIRE, A. M. TAYLOR, AND K.-E. ANDERSSON	148	Correlations between Conceptual Concentrations of all- <i>trans</i> -Retinoic Acid and Dysmorphogenesis after Microinjection of all- <i>trans</i> -Retinoic Acid, 13- <i>cis</i> -Retinoic Acid, all- <i>trans</i> -Retinoyl- β -Glucuronide, or Retinol in Cultured Whole Rat Embryos. JOAN CREECH KRAFT AND MONT R. JUCHAU	218
Methacrylonitrile: <i>In Vivo</i> Metabolism to Cyanide in Rats, Mice, and Gerbils. MOHAMMED Y. H. FAROOQUI, ROLANDO G. DIAZ, AND JESUS H. DELEON	156	Metabolism of Sodium Nifurstyrenate, a Veterinary Antimicrobial Nitrofurantoin, in Animals and Fish. K. TATSUMI, S. KITAMURA, M. KATO, AND K. HIRAOKA	226
Identification of Biliary Metabolites of <i>m</i> -Dichlorobenzene in Rats. R. KIMURA, N. OHISHI, Y. KATO, S. YAMADA, AND M. SATO	161	Availability of Glycine and Coenzyme A Limits Glycine Conjugation <i>in Vivo</i> . ZOLTÁN GREGUS, TIBOR FEKETE, FERENC VARGA, AND CURTIS D. KLAASSEN	234
Glucuronidation of the Dopamine D-1 Receptor Antagonists NNC 0756 and NNC 0772 in Liver Mitochondria. KRISTIAN T. HANSEN, KARIN F. THOMSEN, AND HANS BUNDGAARD	172	Human Hepatic Microsomal Metabolism of Δ^1 -Tetrahydrocannabinol. LESTER M. BORNHEIM, JEROME M. LASKER, AND JUDY L. RAUCY	241
Stereoselective Renal Tubular Secretion of a New Uricosuric Diuretic, 6,7-Dichloro-5-(<i>N,N</i> -dimethylsulfamoyl)-2,3-dihydro-2-benzofurancarboxylic Acid (S-8666), in Cynomolgus Monkeys. MASA-YUKI NAKANO AND SEIICHI KAWAHARA	179	Human Hepatic Microsomal Thiol Methyltransferase: Assay Conditions, Biochemical Properties, and Correlation Studies. TODD A. GLAUSER, ADRIAN L. KERREMANS, AND RICHARD M. WEINSHILBOUM	247
Isolation of Two Immunosuppressive Metabolites after <i>in Vitro</i> Metabolism of Rapamycin. U. CHRISTIANS, M. SATTLER, H. M. SCHIEBEL, C. KRUSE, H. H. RADEKE, A. LINCK, AND K.-FR. SEWING	186	Urinary Metabolic Profiles in Human and Rat of 1,2-Dimethyl- and 1,2-Diethyl-Substituted 3-Hydroxypyridin-4-ones. S. SINGH, R. O. EPEMOLU, P. S. DOBBIN, G. S. TILBROOK, B. L. ELLIS, L. A. DAMANI, AND R. C. HIDER	256
Evidence for Urinary Excretion of Glucuronide Conjugates of Nicotine, Cotinine, and <i>trans</i> -3'-Hydroxycotinine in Smokers. GARY D. BYRD, KUO-MEI CHANG, JACKIE M. GREENE, AND J. DON DEBETHIZY	192	A Metabolic Route of Omeprazole Involving Conjugation with Glutathione Identified in the Rat. LARS WEIDOLF, KARL-ERIK KARLSSON, AND INGEMAR NILSSON	262
Comparative Metabolism and Disposition of Furfural and Furfuryl Alcohol in Rats. AMIN A. NOMEIR, DENISE M. SILVEIRA, MADELINE F. MCCOMISH, AND MARJORY CHADWICK	198	Stereoselective Acetyl Side Chain Reduction of Warfarin and Analogs: Partial Characterization of Two Cytosolic Carbonyl Reductases. J. J. R. HERMANS AND H. H. W. THIJSSSEN	268

Continued on next page

Guinea Pig and Rat Hepatic Microsomal Metabolism of Monocrotaline. STEPHEN R. DUEKER, MICHAEL W. LAMÉ, DEXTER MORIN, DENNIS W. WILSON, AND H. J. SEGALL	275	GERARD FABRE, BRUNO LACARELLE, MARTINE BOURRIE, JACQUES CATALIN, YVES BERGER, ROGER RAHMANI, AND JEAN-PAUL CANO	316
The Metabolism of DuP 753, a Nonpeptide Angiotensin II Receptor Antagonist, by Rat, Monkey, and Human Liver Slices. RALPH A. STEARNS, RANDALL R. MILLER, GEORGE A. DOSS, PRASUN K. CHAKRAVARTY, AVERY ROSEGAY, GREGORY J. GATTO, AND SHUET-HING LEE CHIU	281	Metabolic Inversion of (<i>R</i>)-Ibuprofen: Epimerization and Hydrolysis of Ibuprofenyl-Coenzyme A. TIMOTHY S. TRACY AND STEPHEN D. HALL	322
The Influence of Vitamin K ₃ Treatment on the Pharmacokinetics and Metabolism of (+)-Propranolol in the Rat. HSIAO-HUI CHOW AND DAVID LALKA	288	SHORT COMMUNICATIONS	
Metabolic Fate of Menthofuran in Rats: Novel Oxidative Pathways. K. MADHAVA MADYASTHA AND C. PAUL RAJ	295	Glucuronidation of Zileuton (A-64077) by Human Hepatic Microsomes. DAVID J. SWEENEY, JENNIFER BOUSKA, JOSEPH MACHINIST, RANDY BELL, GEORGE CARTER, STEVEN CEPÁ, AND HUGH N. NELLANS	328
Pharmacokinetics of Caffeine and its Demethylated Metabolites in Lactating Adult Rabbits and Neonatal Offspring: Predictions of Breast Milk to Serum Concentration Ratios. P. J. MCNAMARA, D. BURGIO, AND S. D. YOO	302	New Evidence of Sparteine Metabolites in Humans. J. POSPÍŠIL, V. PATZELOVÁ, AND B. MÁČA	330
α -Glucoside Formation of Xenobiotics by Rat Liver α -Glucosidases. HIDETAKE KAMIMURA, HIROYASU OGATA, AND HIROMI TAKAHARA	309	Stereoselective Sulfate Conjugation of 4-Hydroxypropranolol and Terbutaline by the Human Liver Phenolsulfotransferases. THOMAS WALLE AND U. KRISTINA WALLE	333
Involvement of the Cytochrome P-450IID Gene Subfamily in Minaprine 4-Hydroxylation by Human Hepatic Microsomes. FRANÇOISE MARRE,		Carboxyphosphamide: NMR Studies of its Stability and Cell Membrane Permeability. SUSAN M. LUDEMAN, CHORNG-KEI HO, JILA H. BOAL, EDWARD M. SWEET, AND YOUNG H. CHANG	337
		Interactions of a Primary <i>N</i> -Hydroxy Arylamine with Rat Hepatic Aryl Sulfotransferase IV. MICHAEL W. DUFFEL, RAKEN B. MODI, AND ROBERTA S. KING	339