ARTICLES

Induction of Detoxifying Enzymes in Rodent White Adipose Tissue by Aryl Hydrocarbon Receptor Agonists and Antioxidants. KOUCHI YOSHINARI, NAO OKINO, TAKESHI SATO, JUNKO Sugatani, and MASAO MIWA .......................................................... 1081

Stereoselective Metabolism of Endosulfan by Human Liver Microsomes and Human Cytochrome P450 Isoforms. HWAY-KYUNG Lee, JOON-KWAN Moon, CHUL-HEE CHANG, HOON Choi, HEE-WON Park, BYEOUNG-SOO Park, HYE-SUK Lee, EUL-CHUL HWANG, YOUNG-DEUK Lee, KWANG-HYEON LIU, and JEONG-HAN Kim .................................................. 1090

Regulation of CYP1A1 Gene Expression by the Antioxidant tert-Butylhydroquinone. THOMAS D. SCHREIBER, CHRISTOPH KöHLE, FELICITAS BUCKLER, STEFAN SCHMOHL, ALBERT BRAEUNING, ALEXANDER SCHMECHEN, MICHAEL SCHWARZ, and PETER A. MÜNZEL .............................................. 1096

Human UDP-Glucuronosyltransferase, UGT1A8, Glucuronidates Dihydrotestosterone to a Monoglucuronide and Further to a Structurally Novel Diglucuronide. TAKAHIRO MURAI, NAOZUMI SAMATA, HARUO IWABUCHI, and TOSHIHIKO IKEDA .... 1102

Predominant Contribution of OATP1B3 to the Hepatic Uptake of Telmisartan, an Angiotensin II Receptor Antagonist, in Humans. NAOKI ISHIGURO, KAZUYA MAEDA, WATARU KISHIMOTO, ASAMI SAITO, AKIKO HARADA, THOMAS EBNER, WILLY ROTH, TAKASHI IGARASHI, and YUICHI SUGIYAMA ................................................................. 1109

The Role of the Polymorphic Efflux Transporter P-glycoprotein on the Brain Accumulation of d-Methylphenidate and d-Amphetamine. HAO-JIE ZHU, JUN-SHENG WANG, C. LINDSAY DeVANE, ROBIN L. WILLIARD, JENNIFER L. DONOVAN, LAWRENCE D. MIDDLELE, BRIAN B. GIBSON, KENNEDY S. PATRICK, and JOHN S. MARKOWITZ .................. 1116

Quantitative Determination of Aristolochic Acid-Derived DNA Adducts in Rats Using 32P-Postlabeling/Polyacrylamide Gel Electrophoresis Analysis. HUAN DONG, NAOMI SUZUKI, MARIA C. TORRES, RADHA R. BONAL, FRANCIS JOHNSON, ARTHUR P. GROLLMAN, and SHINYA SHIBUTANI ................. 1122

The in Vivo and in Vitro Metabolic Profile of 99mTc-NC100668, a New Tracer for Imaging Venous Thromboembolism: Identification and Biodistribution of the Principal Radiolabeled Metabolite. DAVID EDWARDS, MARK BATTLE, ROCHELLE LEAR, GILL FARRAR, D. JON BARNETT, VANESSA GODDEN, CATHERINE COOMBES, ALEXANDRA OLIVEIRA, and HAKAN AHLSTRÖM ............................................................... 1128

Quinacrine Is Mainly Metabolized to Mono-Desethyl Quinacrine by CYP3A4/5 and Its Brain Accumulation Is Limited by P-glycoprotein. YONG HUANG, HIDEAKI OKOCHI, BARNABY C. H. MAY, GIUSEPPE LEGNAME, STANLEY B. PRUSINER, LESLIE Z. BENET, B. JOSEPH GUGLIELMO, and EMIL T. LIN ............... 1136

Neurotoxic Pyridinium Metabolites of Haloperidol Are Substrates of Human Organic Cation Transporters. HO-JIN KANG, SANG-SOOP LEE, CHUNG-HEE LEE, JU-CHEOL SHIM, HO JUNG SHIN, KWANG-HYEON LIU, MI-AE YOO, and JAE-GOOK SHIN ........... 1145

Identification of Human Hepatic Cytochrome P450 Enzymes Involved in the Metabolism of 8-Prenylharnagenin and Isoxanthohumol from Hops (Humulus lupulus L.). JIAN GUO, DEJAN NIKOLIC, DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

CONTENTS

July 2006

Vol. 34, No. 7

Drug Metabolism and Disposition (ISSN 0090-9556) is published monthly (one volume per year) by the American Society for Pharmacology and Experimental Therapeutics, 9650 Rockville Pike, Bethesda, MD 20814-3995; e-mail: info@aspet.org; Web site: http://www.aspet.org Periodicals postage paid at Bethesda, MD and at additional mailing offices. POSTMASTER: Send address changes to Drug Metabolism and Disposition, 9650 Rockville Pike, Bethesda, MD 20814-3995. Subscription Rates: U.S.: $339.00 for institutions and $177.00 for non-ASPET members. Outside the U.S.: $408.00 for institutions and $246.00 for non-ASPET members. Single copy: $35.00. GST Tax Number for Canadian subscribers: BN:13489 2330 RT. Indexed or abstracted by Biochemistry & Biophysics Citation Index®, Biological Abstracts, BIOSIS Previews Database, BioclOsciences Information Service, Current Awareness in Biological Sciences, Current Contents/Life Sciences, EMBASE/Excerpta Medica, Index Medicus, International Pharmaceutical Abstracts, Medical Documentation Service®, Reference Update®, Research Alert®, Science Citation Index®, SciSearch®, and SJIC Data Bases. Copyright © 2006 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved. Printed in the U.S.A.