SHORT COMMUNICATIONS


Bioavailable Flavonoids: Cytochrome P450-Mediated Metabolism of Methoxyflavones. U. Kristina Walle and Thomas Walle .. 1985


ARTICLES

Functional Induction of P-glycoprotein in the Blood-Brain Barrier of Streptozotocin-Induced Diabetic Rats: Evidence for the Involvement of Nuclear Factor-κB, a Nitrosative Stress-Sensitive Transcription Factor, in the Regulation. Han-Joo Maeng, Mi-Hwa Kim, Hyo-Eon Jin, Sang Mi Shin, Takasi Tsuruo, Sang Geon Kim, Dae-Duk Kim, Chang-Koo Shim, and Suk-Jae Chung .. 1996


Specificity of Procaine and Ester Hydrolysis by Human, Minipig, and Rat Skin and Liver. Christopher Jewell, Christisa Ackermann, N. Ann Payne, Gwendolyn Fate, Richard Voorman, and Faith M. Williams .. 2015

Identification of New Flavone-8-Acetic Acid Metabolites Using Mouse Microsomes and Comparison with Human Microsomes. Minh Hien Pham, Nicolas Auzel, Anne Regazzetti, Daniel Daouzanne, Annabelle Duqay, Marie-Claude Menet, Daniel Scherman, and Guy G. Chabot .. 2023

Silybin Is Metabolized by Cytochrome P450 2C8 in Vitro. Petra Jančová, Eva Anzenbacherová, Barbora Papoušková, Karel Lemr, Pavla Lužná, Alena Veinlichová, Pavel Anzenbacher, and Vilím Simánek .. 2035

The UDP-Glucuronosyltransferase 2B7 Isozyme Is Responsible for Gemfibrozil Glucuronidation in the Human Liver. Yuji Mano, Takashi Usui, and Hidetaka Kamimura .. 2040

Evaluation of the Role of Breast Cancer Resistance Protein (BCRP/ABCG2) and Multidrug Resistance-Associated Protein 4 (MRP4/ABCC4) in The Urinary Excretion of Sulfate and Glucuronide Metabolites of Edaravone (MCI-186; 3-Methyl-1-phenyl-2-pyrazolin-5-one). Naomi Mizuno, Tsuyoshi Takahashi, Hiroyuki Kusuhara, John D. Schuetz, Takuro Niwa, and Yuichi Sugiyama .. 2045

A Comparison of 2-Phenyl-2-(1-piperidinyl)propane (PPP), 1,1’,1”-Phosphinothioylidinetriziridine (ThioTEPA), Clopidogrel, and Ticlopidine as Selective Inactivators of Human Cytochrome P450 2B6. Robert L. Walsky and R. Scott Obach .. 2053

Beneficial Effect of Spironolactone Administration on Ethynylestradiol-Induced Cholestasis in the Rat: Involvement of Up-Regulation of Multidrug Resistance-Associated Protein 2. María L. Ruiz, Silvina S.M. Villanueva, Marcelo G. Luquita, and Silvia S. Kallianpur .. 2056

CONTENTS

Drug Metabolism and Disposition: A Publication of the American Society for Pharmacology and Experimental Therapeutics

November 2007

Vol. 35, No. 11

P-glycoprotein-Mediated Active Efflux of the Anti-HIV1 Nucleoside Abacavir Limits Cellular Accumulation and Brain Distribution. Naveed Shaik, Nagdeep Giri, Guoyu Pan, and William F. Elmquist ...................... 2076

Analysis of CYP2A Contributions to Metabolism of 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone in Human Peripheral Lung Microsomes. Pamela J. Brown, Leanne L. Bedard, Ken R. Reid, Dimitri Petsikas, and Thomas E. Massey ............ 2086

The CYP3A4*18 Allele, the Most Frequent Coding Variant in Asian Populations, Does Not Significantly Affect the Midazolam Disposition in Heterozygous Individuals. Su-Jun Lee, Sang Seop Lee, Hye-Eun Jeong, Ji-Hong Shon, Ji-Young Ryu, Yu Eun Sunwoo, Kwang-Hyeon Liu, Wonku Kang, Young-Ju Park, Chi-Mann Shin, and Jae-Gook Shin ........................................... 2095

Attenuated Expression of Episodic Growth Hormone-Induced CYP2C11 in Female Rats Associated with Suboptimal Activation of the Jak2/Stat5B and Other Modulating Signaling Pathways. Ravindra N. Dhir, Chellappagounder Thangavel, and Bernard H. Shapiro ........................................... 2102


Use of Isolated Hepatocyte Preparations for Cytochrome P450 Inhibition Studies: Comparison with Microsomes for Ki Determination. Hayley S. Brown, Anthony Chadwick, and J. Brian Houston ........................................... 2119

Serine Hydroxymethyltransferase Isoforms Are Differentially Inhibited by Leucovorin: Characterization and Comparison of Recombinant Zebrafish Serine Hydroxymethyltransferases. Wen-Ni Chang, Jen-Ning Tsai, Bing-Hung Chen, Huei-Sheng Huang, and Tzu-Fun Fu ........................................... 2127

SUPPLEMENTAL MATERIAL

S Supplemental material is available online at http://dmd.aspetjournals.org.

About the cover: Metabolism of NNK. Metabolites I and II are detoxification products produced by pyridine N-oxidation; metabolites III to VI are endpoint products of α-hydroxylation and are indicative of the formation of unstable reactive metabolites which methylate or pyridyloxobutylate DNA*. See the article by Brown et al. on page 2086 of this issue.