SHORT COMMUNICATIONS

Glucuronidation of the Antiretroviral Drug Efavirenz by UGT2B7 and an In Vitro Investigation of Drug-Drug Interaction with Zidovudine. Anne-Sophie Bélanger, Patrick Caron, Mario Harvey, Peter A. Zimmerman, Rajeev K. Mehlotra, and Chantal Guillemette

Aromatic Substitution Reaction of 2-Chloropyridines Catalyzed by Microsomal Glutathione S-Transferase 1. Kazuko Inoue, Tomoyuki Ohe, Kenichi Mori, Takeshi Sagara, Yasuyuki Ishii, and Masato Chiba


ARTICLES

Bioactivation of Minocycline to Reactive Intermediates by Myeloperoxidase, Horseradish Peroxidase, and Hepatic Microsomes: Implications for Minocycline-Induced Lupus and Hepatitis. Baskar Mannargudi, David McNally, William Reynolds, and Jack Uetrecht

Age- and Sex-Related Expression and Activity of Carboxylesterase 1 and 2 in Mouse and Human Liver. Hao-Jie Zhu, David I. Appel, Yan Jiang, and John S. Markowitz


Up-Regulation of UDP-Glucuronosyltransferase (UGT) 1A4 by 17β-Estradiol: A Potential Mechanism of Increased Lamotrigine Elimination in Pregnancy. Huiqing Chen, Kyunghee Yang, Suyoung Choi, James H. Fischer, and Hyunyoung Jeong

In Vitro Inhibition of Multiple Cytochrome P450 Isoforms by Xanthone Derivatives from Mangosteen Extract. Robert S. Foti, Josh T. Pearson, Dan A. Rock, Jan L. Wahlstrom, and Larry C. Wienkers

Involvement of Human Organic Cation Transporter 1 in the Hepatic Uptake of 1-(2-Methoxyethyl)-2-methyl-4,9-dioxo-3-(pyrazin-2-ylmethyl)-4,9-dihydro-1H-naphtho[2,3-d]imidazolium Bromide (YM155 Monobromide), a Novel, Small Molecule Survivin Suppressor. Megumi Iwai, Tsuyoshi Minematsu, Shinichi Narikawa, Takashi Usui, and Hidetaka Kamimura

Modulation of the Partition Coefficient between Octanol and Buffer at pH 7.4 and pK_a to Achieve the Optimum Balance of Blood Clearance and Volume of Distribution for a Series of Tetrahydropryan Histamine Type 3 Receptor Antagonists. Tanya Hay, Rhys Jones, Kevin Beaumont, and Mark Kemp

Changes in mRNA Expression Levels of Solute Carrier Transporters in Inflammatory Bowel Disease Patients. Kacper A. Wojtal, Jyrki J. Eloranta, Petr Hraz, Heike Gutmann, Jürgen Drew, Alex Staumann, Christoph Beglinger, Michael Fried, Gerd A. Kullak-Ublick, and Stephan R. Vavricka

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Effect of Membrane Cholesterol on BSEP/Bsep Activity: Species Specificity Studies for Substrates and Inhibitors. Emese Kis, Enikő Iloja, Tunde Nagy, Lajos Szente, Krisztina Herédi-Szabó, and Péter Krajesi

Methadone Induces the Expression of Hepatic Drug-Metabolizing Enzymes through the Activation of Pregnan X Receptor and Constitutive Androstane Receptor. Antonia H. Tolson, Haishan Li, Natalie D. Eddington, and Hongbing Wang


Metabolism of Ticlopidine in Rats: Identification of the Main Biliary Metabolite as a Glutathione Conjugate of Ticlopidine S-Oxide. Shinji Shimizu, Ryo Atsumi, Tsunenori Nakazawa, Yuko Fujimaki, Kenichi Sudo, and Osamu Okazaki


An in Vitro Evaluation of the Victim and Perpetrator Potential of the Anticancer Agent Laromustine (VNP40101M), Based on Reaction Phenotyping and Inhibition of Cytochrome P450 Enzymes. Alaa-Eldin F. Nassar, Ivan King, Brandy L. Paris, Lois Haupt, Florence Ndikum-Moffor, Rebecca Campbell, Etsuko Usuki, Jennifer Skibbe, Dan Brobst, Brian W. Ogilvie, and Andrew Parkinson

Inhibition of Human CYP2B6-Catalyzed Bupropion Hydroxylation by Ginkgo biloba Extract: Effect of Terpene Trilactones and Flavonols. Aik Jiang Lau and Thomas K. H. Chang

3-Ketocholanic Acid Is the Major In Vitro Human Hepatic Microsomal Metabolite of Lithocholic Acid. Anand K. Deo and Stelvio M. Bandiera

Influence of N-Terminal Domain Histidine and Proline Residues on the Substrate Selectivities of Human UDP-Glucuronosyltransferase 1A1, 1A6, 1A9, 2B7, and 2B10. Oranum Kerdpin, Peter I. Mackenzie, Kushari Bovalgaha, Moshe Finel, and John O. Miners

Culture Period-Dependent Change of Function and Expression of ATP-Binding Cassette Transporters in Caco-2 Cells. Emi Kamiyama, Daisuke Sugiyama, Daisuke Nakai, Shin-ichi Miura, and Osamu Okazaki

Thyroid Hormone Is Necessary for Expression of Constitutive Androstane Receptor in Rat Hepatocytes. Hidekazu Ooe, Junko Kon, Hideki Oshima, and Toshihiro Mitaka

A Zone Classification System for Risk Assessment of Idiosyncratic Drug Toxicity Using Daily Dose and Covalent Binding. Shintaro Nakayama, Ryo Atsumi, Hideo Takakusa, Yoshimasa Kobayashi, Atsushi Kurihara, Yoko Nagai, Daisuke Nakai, and Osamu Okazaki

Genetic Polymorphisms in the TATA Box and Upstream Phenobarbital-Responsive Enhancer Module of the UGT1A1 Promoter Have Combined Effects on UDP-Glucuronosyltransferase 1A1 Transcription Mediated by Constitutive Androstane Receptor, Pregnane X Receptor, or Glucocorticoid Receptor in Human Liver. Ye Li, David Buckley, Shuang Wang, Curtis D. Klaassen, and Xiao-bo Zhong

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

About the cover: Zone classification of IDT risk assessment in accordance with daily dose and covalent binding in human hepatocytes. See article by Nakayama et al. on page 1970 of this issue.