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. Huqing 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 Suppressant. Megumi Iwai, Tsuyoshi Minematsu, Shinichi Narihawa, Takashi Usui, and Hidetaka Kamimura

Modulation of the Partition Coefficient between Octanol and Buffer at pH 7.4 and pKa to Achieve the Optimum Balance of Blood Clearance and Volume of Distribution for a Series of Tetrahydro-pyran 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 Hrus, Heike Gutmann, Jürgen Drewe, Alex Staumann, Christoph Beglinger, Michael Fried, Gerd A. Kullak-Ublick, and Stephan R. Vavricka
Effect of Membrane Cholesterol on BSEP/Bsep Activity: Species Specificity Studies for Substrates and Inhibitors. Emese Kis, Enikő Iója, Tunde Nagy, Lajos Szente, Krisztina Herédí-Szabó, and Péter Krajcsi .......................................................... 1878

Methadone Induces the Expression of Hepatic Drug-Metabolizing Enzymes through the Activation of Pregnane X Receptor and Constitutive Androstane Receptor. Antonia H. Tolson, Haishan Li, Natalie D. Eddington, and Hongbing Wang .......................................................... 1887


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 .......................................................... 1904


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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.