CONTENTS

SHORT COMMUNICATIONS

Spironolactone and Canrenone Inhibit UGT2B7-Catalyzed Human Liver and Kidney Microsomal Aldosterone 18β-Glucuronidation: A Potential Drug Interaction. Kathleen M. Knights, Kushari Bowalgaha, and John O. Miners ........................................... 1011


Hepatic Uptake of the Magnetic Resonance Imaging Contrast Agent Gd-EOB-DTPA: Role of Human Organic Anion Transporters. Mirko Leonhardt, Markus Keiser, Stefan Oswald, Jens Kühn, Jia Jia, Markus Grube, Heyo K. Kroemer, Werner Siegmund, and Werner Weitschies ......................... 1024

ARTICLES


Significant Increase in Phenacetin Oxidation on L382V Substitution in Human Cytochrome P450 1A2. Qingbiao Huang and Grazyna D. Szklarz ............... 1039

In Vivo Responses of the Human and Murine Pregnane X Receptor to Dexamethasone in Mice. Nico Scheer, Jillian Ross, Yury Kapelyukh, Anja Rode, and C. Roland Wolf ........................................... 1046

Vectorial Transport of Nucleoside Analogs from the Apical to the Basolateral Membrane in Double-Transfected Cells Expressing the Human Concentrative Nucleoside Transporter hCNT3 and the Export Pump ABCC4. Maria Rius, Daniela Keller, Manuela Brom, Johanna Hummel-Eisenbeiss, Frank Lyko, and Dietrich Keppler ................... 1054

Transporter Studies with the 3-O-Sulfate Conjugate of 17α-Ethinylestradiol: Assessment of Human Kidney Drug Transporters. Yong-Hae Han, Dennis Busler, Yang Hong, Yuan Tian, Cliff Chen, and A. David Rodrigues ............................... 1064

Transporter Studies with the 3-O-Sulfate Conjugate of 17α-Ethinylestradiol: Assessment of Human Liver Drug Transporters. Yong-Hae Han, Dennis Busler, Yang Hong, Yuan Tian, Cliff Chen, and A. David Rodrigues ............................... 1072

Characterization of HKI-272 Covalent Binding to Human Serum Albumin. Jianyao Wang, Xiao Xian Li-Chan, Jim Atherton, Lin Deng, Robert Espina, Linning Yu, Peter Horwatt, Steven Ross, Susan Lockhead, Syed Ahmad, Appavu Chandrasekaran, Aram Oganesian, JoAnn Scatina, Abdul Mutlib, and Rasmy Talaat .................................................. 1083

Confidence Assessment of the Simcyp Time-Based Approach and a Static Mathematical Model in Predict-
Contents (cont’d.)

ing Clinical Drug-Drug Interactions for Mechanism-Based CYP3A Inhibitors. Ying-Hong Wang.

Differential Roles of Phase I and Phase II Enzymes in 3,4-Methylenedioxyxymethamphetamine-Induced Cytotoxicity. Irene Antolino-Lobo, Jan Meulenbelt, Sandra M. Nijmeijer, Peter Scherpenisse, Martin van den Berg, and Majorie B. M. van Duursen.

In Vitro-In Vivo Correlation and Translation to the Clinical Outcome for CJ-13,610, a Novel Inhibitor of 5-Lipoxygenase. J. Matthew Hutzler, Collette D. Linder, Roger J. Melton, John Vincent, and J. Scott Daniels.


Prediction of Human Intestinal First-Pass Metabolism of 25 CYP3A Substrates from In Vitro Clearance and Permeability Data. Michael Gertz, Anthony Harrison, J. Brian Houston, and Aleksandra Galetin.


The Nuclear Receptors Constitutive Active/Androstan Receptor and Pregnane X Receptor Activate the Cyp2c55 Gene in Mouse Liver. Yoshihiro Konno, Hiroki Kamino, Rick Moore, Fred Lih, Kenneth B. Tomer, Darryl C. Zeldin, Joyce A. Goldstein, and Masahiko Negishi.

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

About the cover: Simplified scheme describing EE2 disposition after oral administration with focus on transport of EE2-Sul. See the article by Han et al. on page 1064 of this issue.