CONTENTS

SHORT COMMUNICATIONS

Prolonged Toxic Effects After Cocaine Challenge in Butyrylcholinesterase/Plasma Carboxylesterase Double Knockout Mice: A Model for Butyrylcholinesterase-Deficient Humans. Ellen G. Duysen and Oksana Lockridge .................................................. 1321

Effects of Ketamine on Human UDP-Glucuronosyltransferases In Vitro Predict Potential Drug-Drug Interactions Arising from Ketamine Inhibition of Codeine and Morphine Glucuronidation. Veerawan Uchaipichat, Pritsana Raungrut, Nuy Chau, Benjamas Janchawee, Allan M. Evans, and John O. Miners .......................................................... 1324

Characterization of Recombinant Human Carboxylesterases: Fluorescein Diacetate as a Probe Substrate for Human Carboxylesterase 2. Jie Wang, Eric T. Williams, Joanne Bourgea, Y. Nancy Wong, and Christopher J. Patten .................................................. 1329

Subcellular Location and Molecular Mobility of Human Cytosolic Sulfotransferase 1C1 in Living Human Embryonic Kidney 293 Cells. Jonathan J. Sheng and George K. Acquaah-Mensah ........................................ 1334

ARTICLES

Impact of Abcc2 [Multidrug Resistance-Associated Protein (Mrp) 2], Abcc3 (Mrp3), and Abcg2 (Breast Cancer Resistance Protein) on the Oral Pharmacokinetics of Methotrexate and Its Main Metabolite 7-Hydroxymethotrexate. Maria L. H. Vlaming, Anita van Esch, Evita van de Steeg, Zeliha Pala, Els Wagenaar, Olaf van Tellingen, and Alfred H. Schinkel .................................................. 1338

Human Paraoxonase 1 Is the Enzyme Responsible for Pilocarpine Hydrolysis. Tomomi Hikoi, Tatsuki Fukami, Miki Nakajima, and Tsuyoshi Yokoi .................................................. 1345

In Vitro Age-Dependent Enzymatic Metabolism of Chlorpyrifos and Chlorpyrifos-Oxon in Human Hepatic Microsomes and Chlorpyrifos-Oxon in Plasma. Jordan Ned Smith, Charles Timchalk, Michael J. Bartels, and Torka S. Poet .................. 1353

Effects of Chronic Renal Failure on Kidney Drug Transporters and Cytochrome P450 in Rats. Judith Naud, Josée Michaud, Stéphanie Beauchemin, Marie-Josée Hébert, Michel Roger, Stéphane Lefrançois, Francois A. Leblond, and Vincent Pichette .......... 1363


Development of a Highly Sensitive Cytotoxicity Assay System for CYP3A4-Mediated Metabolic Activation. Hiroko Hosomi, Tatsuki Fukami, Atsushi Iwashima, Miki Nakajima, and Tsuyoshi Yokoi .......... 1388

Preclinical and Clinical Pharmacokinetics of PF-02413873, a Nonsteroidal Progesterone Receptor Antagonist. Peter J. Bungay, Sarah Tweedy, David C. Howe, Karl R. Gibson, Hannah M. Jones, and Natalie M. Mount .......... 1396

Microsomal Quercetin Glucuronidation in Rat Small Intestine Depends on Age and Segment. Bradley W. Bolling, Michael H. Court, Jeffrey B. Blumberg, and C.-Y. Oliver Chen .......... 1406

Effects of Interleukin-6 (IL-6) and an Anti-IL-6 Monoclonal Antibody on Drug-Metabolizing Enzymes in Human Hepatocyte Culture. Leslie J. Dickmann, Sonal K. Patel, Dan A. Rock, Larry C. Wienkers, and J. Greg Slatter .......... 1415

Continued on next page

Identification of Cytochrome P450 Oxidoreductase Gene Variants That Are Significantly Associated with the Interindividual Variations in Warfarin Maintenance Dose. Xiuling Zhang, Lei Li, Xinxin Ding, and Laurence S. Kaminsky 1433

Acute Doxorubicin Toxicity Differentially Alters Cytochrome P450 Expression and Arachidonic Acid Metabolism in Rat Kidney and Liver. Beshay N. M. Zordoky, Anwar Anwar-Mohamed, Mona E. Aboutabl, and Ayman O. S. El-Kadi 1440

Farnesoid X Receptor Activation by Chenodeoxycholic Acid Induces Detoxifying Enzymes through AMP-Activated Protein Kinase and Extracellular Signal-Regulated Kinase 1/2-Mediated Phosphorylation of CCAAT/Enhancer Binding Protein β. Kyoung Noh, Young Mi Kim, Young Woo Kim, and Sang Geon Kim 1451


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

About the cover: FRAP assay monitored at different time intervals. See the article by Sheng and Acquaah-Mensah on page 1334 of this issue.