CONTENTS

SHORT COMMUNICATIONS


In Vitro-to-in Vivo Prediction of P-glycoprotein-Based Drug Interactions at the Human and Rodent Blood-Brain Barrier. Peng Hsiao, Tot Bui, Rodney J. Y. Ho, Jashvant D. Unadkat

Enzymatic C-Demethylation of 1-[2-(5-tert-Butyl-[1,3,4]-oxadiazole-2-carbonyl)-4-fluoro-pyrrolidin-1-yl]-2-(2-hydroxy-1,1-dimethyl-ethylamino)-ethanone (LC15-0133) in Rat Liver Microsomes. Hye Hyun Yoo, Hye Jin Chung, Jaeick Lee, Chang-Seok Lee, Min Jung Kang, Dong-Hyun Kim

ARTICLES

CYP3A4-Mediated Carbamazepine (CBZ) Metabolism: Formation of a Covalent CBZ-CYP3A4 Adduct and Alteration of the Enzyme Kinetic Profile. Ping Kang, Mingxiang Liao, Michael R. Wester, J. Steven Leeder, Robin E. Pearce, and Maria Almira Correia


Characterization and Comparative Studies of Zebrafish and Human Recombinant Dihydrofolate Reductases—Inhibition by Folic Acid and Polyphenols. Tseng-Ting Kao, Kuan-Chieh Wang, Wen-Ni Chang, Chia-Ying Lin, Bing-Hung Chen, Hua-Lin Wu, Guey-Yueh Shi, Jen-Ning Tsai, and Tzu-Fun Fu

The First Aspartic Acid of the DQxD Motif for Human UDP-Glucuronosyltransferase 1A10 Interacts with UDP-Glucuronic Acid during Catalysis. Yan Xiong, Anne-Sisko Patana, Michael J. Miley, Agnieszka K. Zielinska, Stacie M. Bratton, Grover P. Miller, Adrian Goldman, Moshe Finel, Matt R. Redinbo, and Anna Radomsinska-Pandy

CYP2C19 Inhibition: The Impact of Substrate Probe Selection on in Vitro Inhibition Profiles. Robert S. Foti and Jan L. Wahlstrom

CYP2D6-Mediated Metabolism of a Novel Acyl Coenzyme A:Cholesterol Acyltransferase Inhibitor, Pactimibe, and Its Unique Plasma Metabolite, R-125528. Masakatsu Kotsuma, Taro Tokui, Tómoko Ishizuka-Ozeki, Tomoyo Honda, Haruo Iwabuchi, Takahiro Murai, Toshihiko Ikeda, and Hideo Saji

Drug Lipophilicity and Microsomal Protein Concentration as Determinants in the Prediction of the Fraction Unbound in Microsomal Incubations. Michael Gertz, Peter J. Kilford, J. Brian Houstoun, and Aleksandra Galetin

Regulation of Aryl Hydrocarbon Receptor Expression and Function by Glucocorticoids in Mouse Hepatoma Cells. Kirsten A. Bielefeld, Chunja Lee, and David S. Riddick

Modulation of Human Multidrug Resistance Protein (MRP) 1 (ABCC1) and MRP2 (ABCC2) Transport Activities by Endogenous and Exogenous Glutathione-Conjugated Catechol Metabolites.

CONTINUED ON NEXT PAGE
Contents (cont’d.)

Andrew J. Slot, Dana D. Wise, Roger G. Deeley, Terrence J. Monks, and Susan P. C. Cole ............................... 552

Metabolism of the Trisubstituted Purine Cyclin-Dependent Kinase Inhibitor Seliciclib (R-Roscovitine) in Vitro and in Vivo. Steven J. McClue and Iain Stuart .................................................. 561


Physical Incorporation of NADPH-Cytochrome P450 Reductase and Cytochrome P450 into Phospholipid Vesicles Using Glycocholate and Bio-Beads. James R. Reed, Lauren M. Brignac-Huber, and Wayne L. Backes .................................................. 582


Down-Regulation of Hepatic Cytochrome P450 Enzymes in Rats with Trinitrobenzene Sulfonic Acid-Induced Colitis. Yasuhiro Masubuchi, Kanako Enoki, and Toshiharu Horie .................................................. 597

Induction of Metabolism and Transport in Human Intestine: Validation of Precision-Cut Slices as a Tool to Study Induction of Drug Metabolism in Human Intestine in Vitro. Esther G. van de Kerkhof, Inge A. M. de Graaf, Anna-Lena B. Ungell, and Geny M. M. Groothuis .................................................. 604

High-Affinity Binding of [3H]Cimetidine to a Heme-Containing Protein in Rat Brain. Rebecca Stadel, Jun Yang, Julia W. Nalwalk, James G. Phillips, and Lindsay B. Hough .................................................. 614

ERRATUM
Correction to “The Development of Drug Metabolism Research as Expressed in the Publications of AS-PET: Part 1, 1909–1958” .................................................. 622

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

About the cover: Docking of carbamazepine, testosterone, and erythromycin into the active site of CYP3A4. See article by Kang et al. on page 490 of this issue.