

DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

June 2013

Vol. 41, No. 6

CONTENTS

SHORT COMMUNICATIONS

- p38 Mitogen-Activated Protein Kinase Regulates Nuclear Receptor CAR that Activates the *CYP2B6* Gene. *Kosuke Saito, Rick Moore, and Masahiko Negishi* **1170**
- Minor Compensatory Changes in SAGE Mdr1a (P-gp), Bcrp, and Mrp2 Knockout Rats Do Not Detract from Their Utility in the Study of Transporter-Mediated Pharmacokinetics. *Maciej J. Zamek-Gliszczynski, Keith M. Goldstein, April Paulman, Thomas K. Baker, and Timothy P. Ryan* **1174**

ARTICLES

- Sorafenib Hepatobiliary Disposition: Mechanisms of Hepatic Uptake and Disposition of Generated Metabolites. *Brandon Swift, Noelia Nebot, Jin Kyung Lee, Tianxiang Han, William R. Proctor, Dhiren R. Thakker, Dieter Lang, Martin Radtke, Mark J. Gnoth, and Kim L. R. Brouwer* **1179**
- Differential Expression of Human Cytochrome P450 Enzymes from the CYP3A Subfamily in the Brains of Alcoholic Subjects and Drug-Free Controls. *Iris M. Booth Depaz, Francesca Toselli, Peter A. Wilce, and Elizabeth M. J. Gillam* **1187**
- Metabolism and Pharmacokinetics of Novel Selective Vascular Endothelial Growth Factor Receptor-2 Inhibitor Apatinib in Humans. *Juefang Ding, Xiaoyan Chen, Zhiwei Gao, Xiaojian Dai, Liang Li, Cen Xie, Haoyuan Jiang, Lijia Zhang, and Dafang Zhong* **1195**
- Metabolism Studies of Unformulated Internally [³H]-Labeled Short Interfering RNAs in Mice. *Jesper Christensen, Karine Litherland, Thomas Faller, Esther van de Kerkhof, François Natt, Jürg Hunziker, Joel Krauser, and Piet Swart* **1211**

- Prilocaine- and Lidocaine-Induced Methemoglobinemia Is Caused by Human Carboxylesterase-, CYP2E1-, and CYP3A4-Mediated Metabolic Activation. *Ryota Higuchi, Tatsuki Fukami, Miki Nakajima, and Tsuyoshi Yokoi* **1220**
- Chalcogenopyrylium Dyes as Differential Modulators of Organic Anion Transport by Multidrug Resistance Protein 1 (MRP1), MRP2, and MRP4. *Robert L. Myette, Gwenaëlle Conseil, Sean P. Ebert, Bryan Wetzel, Michael R. Detty, and Susan P. C. Cole* . . . **1231**
- Nicotine Kinetics in Zebra Finches In Vivo and In Vitro. *Sharon Miksys, Susanne L.T. Cappendijk, William M. Perry, Bin Zhao, and Rachel F. Tyndale* **1240**
- In Vitro Metabolism and Pharmacokinetic Studies on Methylone. *Anders Just Pedersen, Trine Hedebrink Petersen, and Kristian Linnet* **1247**
- Population Pharmacokinetic Analysis of Daikenchuto, a Traditional Japanese Medicine (Kampo) in Japanese and US Health Volunteers. *Masaya Munekage, Kengo Ichikawa, Hiroyuki Kitagawa, Kazuhisa Ishihara, Hideaki Uehara, Junko Watanabe, Toru Kono, and Kazuhiro Hanazaki* **1256**
- The *CYP2B6**6 Allele Significantly Alters the *N*-Demethylation of Ketamine Enantiomers In Vitro. *Yibai Li, Janet K. Coller, Mark R. Hutchinson, Kathrin Klein, Ulrich M. Zanger, Nathan J. Stanley, Andrew D. Abell, and Andrew A. Somogyi* **1264**
- The Glucuronidation of R- and S-Lorazepam: Human Liver Microsomal Kinetics, UDP-Glucuronosyltransferase Enzyme Selectivity, and Inhibition by Drugs. *Verawan Uchaipichat, Chuthamane Suthisisang, and John O. Miners* **1273**
- Application of Target-Mediated Drug Disposition Model to Small Molecule Heat Shock Protein 90 Inhibitors. *Shinji Yamazaki, Zhongzhou Shen, Ying Jiang, Bill J. Smith, and Paolo Vicini* **1285**

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

About the cover: Proposed possible occurrence for target-mediated drug disposition of small molecule. See article by Yamazaki et al. on page 1285 of this issue.