

DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

November 2016

Vol. 44, No. 11

CONTENTS

MINIREVIEW

- Trimethylamine and Trimethylamine *N*-Oxide, a Flavin-Containing Monooxygenase 3 (FMO3)-Mediated Host-Microbiome Metabolic Axis Implicated in Health and Disease. *Diède Fennema, Ian R. Phillips, and Elizabeth A. Shephard* **1839**

ARTICLES

- Hepatic Clearance Predictions from In Vitro–In Vivo Extrapolation and the Biopharmaceutics Drug Disposition Classification System. *Christine M. Bowman and Leslie Z. Benet* **1731**

- Rifampin-Mediated Induction of Tamoxifen Metabolism in a Humanized PXR-CAR-CYP3A4/3A7-CYP2D6 Mouse Model. *Jae H. Chang, John Chen, Liling Liu, Kirsten Messick, and Justin Ly* **1736**

- A High Dose of Isoniazid Disturbs Endobiotic Homeostasis in Mouse Liver. *Feng Li, Pengcheng Wang, Ke Liu, Mariana G. Tarrago, Jie Lu, Eduardo N. Chini, and Xiaochao Ma* **1742**

- Transporter Expression in Liver Tissue from Subjects with Alcoholic or Hepatitis C Cirrhosis Quantified by Targeted Quantitative Proteomics. *Li Wang, Carol Collins, Edward J. Kelly, Xiaoyan Chu, Adrian S. Ray, Laurent Salphati, Guangqing Xiao, Caroline Lee, Yurong Lai, Mingxiang Liao, Anita Mathias, Raymond Evers, William Humphreys, Cornelis E. C. A. Hop, Sean C. Kumer, and Jashvant D. Unadkat* **1752**

- Identification and Characterization of CINPA1 Metabolites Facilitates Structure-Activity Studies of the Constitutive Androstane Receptor. *Milu T. Cherian, Lei Yang, Sergio C. Chai, Wenwei Lin, and Taosheng Chen* **1759**

- Roles of Residues F206 and V367 in Human CYP2B6: Effects of Mutations on Androgen Hydroxylation, Mechanism-Based Inactivation, and Reversible

- Inhibition. *Hsia-lien Lin, Haoming Zhang, Cesar Kenaan, and Paul F. Hollenberg* **1771**

- Early Alterations of Bile Canaliculi Dynamics and the Rho Kinase/Myosin Light Chain Kinase Pathway Are Characteristics of Drug-Induced Intrahepatic Cholestasis. *Matthew G. Burbank, Audrey Burban, Ahmad Sharaneq, Richard J. Weaver, Christiane Guéhen-Guillouzo, and André Guillouzo* **1780**

- Nonalcoholic Steatohepatitis Modulates Membrane Protein Retrieval and Insertion Processes. *A. L. Dzierlenga, J. D. Clarke, and N. J. Cherrington* **1799**

- The Prediction of the Relative Importance of CYP3A/P-glycoprotein to the Nonlinear Intestinal Absorption of Drugs by Advanced Compartmental Absorption and Transit Model. *Junichi Takano, Kazuya Maeda, Michael B. Bolger, and Yuichi Sugiyama* **1808**

- The Impact of the Hepatocyte-to-Plasma pH Gradient on the Prediction of Hepatic Clearance and Drug-Drug Interactions for CYP2D6 Substrates. *Luc R. A. Rougée, Michael A. Mohutsky, David W. Bedwell, Kenneth J. Ruterbories, and Stephen D. Hall* **1819**

- Pharmacokinetics of Bupropion and Its Pharmacologically Active Metabolites in Pregnancy. *Valentina M. Fokina, Meixiang Xu, Erik Rytting, Sherif Z. Abdel-Rahman, Holly West, Cheryl Oncken, Shannon M. Clark, Mahmoud S. Ahmed, Gary D.V. Hankins, and Tatiana N. Nanovskaya* **1832**

SHORT COMMUNICATIONS

- A Fragment-Based Approach for the Computational Prediction of the Nonspecific Binding of Drugs to Hepatic Microsomes. *Pramod C. Nair, Ross A. McKinnon, and John O. Miners* **1794**

- Evaluation of 24 CYP2D6 Variants on the Metabolism of Nebivolol In Vitro. *Xiaoxia Hu, Tian Lan,*

Dapeng Dai, Ren-ai Xu, Lingjing Yuan, Quan Zhou, Yunxuan Li, Jianping Cai, and Guoxin Hu **1828**

- ☐ Pharmacokinetics and Disposition of Circulating Iridoids and Organic Acids in Rats Intravenously Receiving ReDuNing Injection. *Chen Cheng, Feifei Du, Ke Yu, Fang Xu, Fengqing Wang, Li Li, Olajide E. Olaleye, Junling Yang, Feng Chen, Chenchun Zhong, Qiongwei Liu, Jing Li, Zhenzhong Wang, Chuan Li, and Wei Xiao* **1853**

LETTER TO THE EDITOR

Misidentification of Bupropion Glucuronide Metabolites and Re-evaluation of Metabolite Pharmacokinetics. *Aaron M. Teitelbaum and Evan D. Kharasch . . .* **1851**

ERRATUM

Correction to “Stereoselective Glucuronidation of Bupropion Metabolites In Vitro and In Vivo”. **1852**

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

About the cover: Immunofluorescence of Mrp2 (red) and pan-Cadherin (green) in control and NASH rats. See the article by Cherrington et al. (dx.doi.org/10.1124/dmd.116.071415).