

DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2018

Vol. 46, No. 7

CONTENTS

COMMENTARY

- Recommended Approaches for Pharmacokinetic Natural Product-Drug Interaction Research: a NaPDI Center Commentary. *Mary F. Paine, Danny D. Shen, and Jeannine S. McCune* **1041**

PERSPECTIVE

- Selection of Priority Natural Products for Evaluation as Potential Precipitants of Natural Product-Drug Interactions: A NaPDI Center Recommended Approach. *Emily J. Johnson, Vanessa González-Peréz, Dan-Dan Tian, Yvonne S. Lin, Jashvant D. Unadkat, Allan E. Rettie, Danny D. Shen, Jeannine S. McCune, and Mary F. Paine* **1046**

ARTICLES

- Quantitative Analysis of Complex Drug-Drug Interactions between Cerivastatin and Metabolism/Transport Inhibitors Using Physiologically Based Pharmacokinetic Modeling. *Yoshiaki Yao, Kota Toshimoto, Soo-Jin Kim, Takashi Yoshikado, and Yuichi Sugiyama* **924**

- Metabolism of a 5HT₆ Antagonist, 2-Methyl-1-(Phenylsulfonyl)-4-(Piperazin-1-yl)-1H-Benzo[d]imidazole (SAM-760): Impact of Sulfonamide Metabolism on Diminution of a Ketoconazole-Mediated Clinical Drug-Drug Interaction. *Aarti Sawant-Basak, R. Scott Obach, Angela Doran, Peter Lockwood, Klaas Schildknegt, Hongying Gao, Jessica Mancuso, Susanna Tse, and Thomas A. Comery* **934**

- Abundance of Phase 1 and 2 Drug-Metabolizing Enzymes in Alcoholic and Hepatitis C Cirrhotic Livers: A Quantitative Targeted Proteomics Study. *Bhagwat Prasad, Deepak Kumar Bhatt, Katherine Johnson, Revathi Chapa, Xiaoyan Chu, Laurent Salphati, Guangqing Xiao, Caroline Lee, Cornelis E. C. A. Hop, Anita Mathias, Yurong Lai, Mingxiang Liao, William G. Humphreys, Sean C. Kumer, and Jashvant D. Unadkat* **943**

- Prediction and Quantification of Hepatic Transporter-Mediated Uptake of Pitavastatin Utilizing a Combination of the Relative Activity Factor Approach and Mechanistic Modeling. *Pallabi Mitra, Samantha Weinheimer, Meeghan Michalewicz, and Mitchell E. Taub* **953**

- Disposition of Mianserin and Cyclizine in UGT2B10-Overexpressing Human Embryonic Kidney 293 Cells: Identification of UGT2B10 as a Novel N-Glucosidation Enzyme and Breast Cancer Resistance Protein as an N-Glucoside Transporter. *Danyi Lu, Dong Dong, Qian Xie, Zhijie Li, and Baojian Wu* **970**

- Liver Receptor Homolog-1 Regulates Organic Anion Transporter 2 and Docetaxel Pharmacokinetics. *Fangjun Yu, Tianpeng Zhang, Lianxia Guo, and Baojian Wu* **980**

- Predicting Human Clearance of Organic Anion Transporting Polypeptide Substrates Using Cynomolgus Monkey: In Vitro-In Vivo Scaling of Hepatic Uptake Clearance. *Tom De Bruyn, Ayşe Ufuk, Carina Cantrill, Rachel E. Kosa, Yi-an Bi, Mark Niosi, Sweta Modi, A. David Rodrigues, Larry M. Tremaine, Manthana V. S. Varma, Aleksandra Galetin, and J. Brian Houston* **989**

- Metabolism and Disposition of Siponimod, a Novel Selective S1P₁/S1P₅ Agonist, in Healthy Volunteers and In Vitro Identification of Human Cytochrome P450 Enzymes Involved in Its Oxidative Metabolism. *Ulrike Glaenzel, Yi Jin, Robert Nuffer, Wenkui Li, Kirsten Schroer, Sylvie Adam-Stitah, Sjoerd Peter van Marle, Eric Legangneux, Hubert Borell, Alexander D. James, Axel Meissner, Gian Camenisch, and Anne Gardin* **1001**

- Ketamine Pharmacokinetics and Pharmacodynamics Are Altered by P-Glycoprotein and Breast Cancer Resistance Protein Efflux Transporters in Mice. *Samit Ganguly, John C. Panetta, Jessica K. Roberts, and Erin G. Schuetz* **1014**

Downloaded from dmd.aspetjournals.org at ASPET Journals on December 2, 2020

Continued on next page

- ☐ 11 β -Hydroxysteroid Dehydrogenase 1 Human Tissue Distribution, Selective Inhibitor, and Role in Doxorubicin Metabolism. *Xin Yang, Wenyi Hua, Sangwoo Ryu, Phillip Yates, Cheng Chang, Hui Zhang, and Li Di* **1023**
- ☐ Structure-Activity Relationships of the Main Bioactive Constituents of *Euodia rutaecarpa* on Aryl Hydrocarbon Receptor Activation and Associated Bile Acid Homeostasis. *Youbo Zhang, Tingting Yan, Dongxue Sun, Cen Xie, Yiran Zheng, Lei Zhang, Tomoki Yagai, Kristopher W. Krausz,*

William H. Bisson, Xiuwei Yang, and Frank J. Gonzalez **1030**

SHORT COMMUNICATION

- ☐ Use of Subcutaneous and Intraperitoneal Administration Methods to Facilitate Cassette Dosing in Microdialysis Studies in Rats. *Matthew R. Durk, Gauri Deshmukh, Nicole Valle, Xiao Ding, Bianca M. Liederer, and Xingrong Liu* **964**

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

About the cover: Structure-activity relationship analysis of the tested compounds on AHR activation. See the article by Gonzalez et al. (doi.org/10.1124/dmd.117.080176.)