

DRUG METABOLISM AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

May 2015

Vol. 43, No. 5

CONTENTS

SHORT COMMUNICATION

- Suppression of Pulmonary CYP2A13 Expression by Carcinogen-Induced Lung Tumorigenesis in a CYP2A13-Humanized Mouse Model. *Zhijia Liu, Vandana Megaraj, Lei Li, Stewart Sell, Jing Hu, and Xinxin Ding* 698

BERNARD B. BRODIE AWARD LECTURE

- The 2014 Bernard B. Brodie Award Lecture—Epoxide Hydrolases: Drug Metabolism to Therapeutics for Chronic Pain. *Sean D. Kodani and Bruce D. Hammock* 788

ARTICLES

- Metabolism of MRX-I, a Novel Antibacterial Oxazolidinone, in Humans: The Oxidative Ring Opening of 2,3-Dihydropyridin-4-One Catalyzed by Non-P450 Enzymes. *Jian Meng, Dafang Zhong, Liang Li, Zhengyu Yuan, Hong Yuan, Cen Xie, Jialan Zhou, Chen Li, Mikhail Fedorovich Gordeev, Jinqian Liu, and Xiaoyan Chen* 646
- Induction of Human UDP-Glucuronosyltransferase 2B7 Gene Expression by Cytotoxic Anticancer Drugs in Liver Cancer HepG2 Cells. *Dong Gui Hu, Peter I. Mackenzie, Lu Lu, Robyn Meech, and Ross A. McKinnon* 660
- Renal Tubular Secretion of Tanshinol: Molecular Mechanisms, Impact on Its Systemic Exposure, and Propensity for Dose-Related Nephrotoxicity and for Renal Herb-Drug Interactions. *Weiwei Jia, Feifei Du, Xinwei Liu, Rongrong Jiang, Fang Xu, Junling Yang, Li Li, Fengqing Wang, Olajide E. Olaleye, Jiajia Dong, and Chuan Li* 669
- Systemic Exposure to and Disposition of Catechols Derived from *Salvia miltiorrhiza* Roots (Danshen) after Intravenous Dosing DanHong Injection in Human Subjects, Rats, and Dogs. *Meijuan Li, Fengqing Wang, Yuhong Huang, Feifei Du, Chenchun Zhong, Olajide E. Olaleye, Weiwei Jia, Yanfen Li, Fang Xu, Jiajia Dong, Jian Li,*

- Justin B. R. Lim, Buchang Zhao, Lifu Jia, Li Li, and Chuan Li* 679

- No Contribution of the ABCB11 p.444A Polymorphism in Japanese Patients with Drug-Induced Cholestasis. *Tatehiro Kagawa, Shunji Hirose, Yoshitaka Arase, Akira Oka, Kazuya Anzai, Kota Tsuruya, Koichi Shiraishi, Reiko Orii, Satsuki Ieda, Takahide Nakazawa, Kengo Tomita, Ryota Hokari, Soichiro Miura, Hirotohi Ebinuma, Hidetsugu Saito, Tsuneo Kitamura, Yoshinori Horie, Chiaki Okuse, Mitsuru Wasada, Hidetoshi Inoko, Masahiro Tohkin, Yoshiro Saito, Keiko Maekawa, Hajime Takikawa, and Tetsuya Mine* 691

- CYP2A7 Pseudogene Transcript Affects CYP2A6 Expression in Human Liver by Acting as a Decoy for miR-126*. *Masataka Nakano, Yasunari Fukushima, Shin-ichi Yokota, Tatsuki Fukami, Masataka Takamiya, Yasuhiro Aoki, Tsuyoshi Yokoi, and Miki Nakajima* 703

- Guanfu Base A, an Antiarrhythmic Alkaloid of *Aconitum coreanum*, Is a CYP2D6 Inhibitor of Human, Monkey, and Dog Isoforms. *Jianguo Sun, Ying Peng, Hui Wu, Xueyuan Zhang, Yunxi Zhong, Yanan Xiao, Fengyi Zhang, Huanhuan Qi, Lili Shang, Jianping Zhu, Yue Sun, Ke Liu, Jinghan Liu, Jiye A, Rodney J. Y. Ho, and Guangji Wang* 713

- Toward Predicting Drug-Induced Liver Injury: Parallel Computational Approaches to Identify Multidrug Resistance Protein 4 and Bile Salt Export Pump Inhibitors. *Matthew A. Welch, Kathleen Köck, Thomas J. Urban, Kim L. R. Brouwer, and Peter W. Swaan* 725

- Activation and Deactivation of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine by Cytochrome P450 Enzymes and Flavin-Containing Monooxygenases in Common Marmosets (*Callithrix jacchus*). *Shotaro Uehara, Yasuhiro Uno, Takashi Inoue, Norie Murayama, Makiko Shimizu, Erika Sasaki, and Hiroshi Yamazaki* 735

Downloaded from dnd.aspetjournals.org at ASPET Journals on September 22, 2018

Continued on next page

GW4064, an Agonist of Farnesoid X Receptor, Represses CYP3A4 Expression in Human Hepatocytes by Inducing Small Heterodimer Partner Expression. *Shu Zhang, Xian Pan, and Hyunyoung Jeong*. **743**

Metabolism, Excretion, and Pharmacokinetics of S-Allyl-L-Cysteine in Rats and Dogs. *Hirota Amano, Daichi Kazamori, Kenji Itoh, and Yukihiko Kodera* **749**

In Vitro Characterization of the Bioconversion of Pomaglumetad Methionil, a Novel Metabotropic Glutamate 2/3 Receptor Agonist Peptide Prodrug. *Richard D. Moulton, Kenneth J. Ruterbories, David W. Bedwell, and Michael A. Mohutsky*. **756**

Pharmacokinetics and Immunogenicity Investigation of a Human Anti-Interleukin-17 Monoclonal Antibody in Non-Naïve Cynomolgus Monkeys. *Chao Han, George R. Gunn, Joseph C. Marini, Gopi Shankar, Helen Han Hsu, and Hugh M. Davis*. **762**

Establishment of a Hepatocyte-Kupffer Cell Coculture Model for Assessment of Proinflammatory

Cytokine Effects on Metabolizing Enzymes and Drug Transporters. *Theresa V. Nguyen, Okechukwu Ukairo, Salman R. Khetani, Michael McVay, Chitra Kanchagar, Wolfgang Seghezzi, Gulesi Ayanoglu, Onyi Irrechukwu, and Raymond Evers* **774**

LETTERS TO THE EDITOR

Clinical Relevance of CYP3A5 Genotype on Maraviroc Exposures. *Manoli Vourvahis, Lynn McFadyen, Jayvant Heera, and Andrew Clark* **771**

Response to “Clinical Relevance of CYP3A5 Genotype on Maraviroc Exposures”. *Yanhui Lu, Edward J. Fuchs, Craig W. Hendrix, and Namandjé N. Bumpus* **773**

ERRATUM

Correction to: “Hepatic Uptake of Atorvastatin: Influence of Variability in Transporter Expression on Uptake Clearance and Drug-Drug Interactions”. **786**

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

About the cover: Docking model of CYP2D6. See the article by Sun et al. (dx.doi.org/10.1124/dmd.114.060905).