CONTENTS

MINIREVIEW


ARTICLES

Organic Anion Transporting Polypeptide (OATP)2B1 Contributes to Gastrointestinal Toxicity of Anti-cancer Drug SN-38, Active Metabolite of Irinotecan Hydrochloride. Daichi Fujita, Yoshimasa Saito, Takeo Nakanishi, and Ikumi Tamai ........ 1

Molecular Cloning, Tissue Distribution, and Functional Characterization of Marmoset Cytochrome P450 1A1, 1A2, and 1B1. Shotaro Uehara, Yasuhiro Uno, Takashi Inoue, Erika Sasaki, and Hiroshi Yamazaki ........... 8

Analysis of the Metabolic Pathway of Bosentan and of the Cytotoxicity of Bosentan Metabolites Based on a Quantitative Modeling of Metabolism and Transport in Sandwich-Cultured Human Hepatocytes. Norikazu Matsunaga, Naomi Kaneko, Angelina Yukiko Staib, Takeo Nakanishi, Ken-ichi Nunoya, Haruo Imawaka, and Ikumi Tamai ............ 16


Application of a New Dynamic Model to Predict the In Vitro Intrinsic Clearance of Tolbutamide Using Rat Microsomes Encapsulated in a Fab Hydrogel. Ning Zhou, Yuanting Zheng, Junfen Xing, Huiying Yang, Hanmei Chen, Xiaoqiang Xiang, Jing Liu, Shanshan Tong, Bin Zhu, and Weimin Cai ........................................... 40


Role of Adaptor Protein Toll-Like Interleukin Domain Containing Adaptor Inducing Interferon β in Toll-Like Receptor 3- and 4-Mediated Regulation of Hepatic Drug Metabolizing Enzyme and Transporter Genes. Pranav Shah, Ozozoma Omohabi, Bhagavatu Moorthy, and Romi Ghose .......................... 61

Local Drug–Drug Interaction of Donepezil with Cilostazol at Breast Cancer Resistance Protein (ABCG2) Increases Drug Accumulation in Heart. Ryota Takeuchi, Kohki Shinozaki, Takeo Nakanishi, and Ikumi Tamai .................... 68

Altered Cisatracurium Pharmacokinetics and Pharmacodynamics in Patients with Congenital Heart Defects. Zhufeng Wu, Sheng Wang, Xuemei Peng, Chunying Lu, Xiaodong Ye, and Baojian Wu .................................................. 75

In Vitro Kinetic Characterization of Axitinib Metabolism. Michael A. Zientek, Theunis C. Goosen, Elaine Tseng, Jian Lin, Jonathan N. Bauman, Gregory S. Walker, Ping Kang, Ying Jiang, Sascha Freiwald, David Neul, and Bill J. Smith .................................................. 102

Human Intestinal Raf Kinase Inhibitor Protein (RKIP) Catalyzes Prasugrel as a Bioactivation Hydrolase. Miho Kazui, Yuji Ogura, Katsunobu Hagihara, Kazuishi Kubota, and Atsushi Kurihara .................. 115


Continued on next page


SHORT COMMUNICATION

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