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 Staub, 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, Xiaoxiang 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, Oozoima Omohubi, Bhagavatula 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, Xueming Peng, Chunying Lu, Xiaodong Ye, and Baojian Wu .................. 75


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
Threonine-408 Regulates the Stability of Human Pregnane X Receptor through Its Phosphorylation and the CHIP/Chaperone-Autophagy Pathway. Junko Sugatani, Yuji Noguchi, Yoshiki Hattori, Masahiko Yamaguchi, Yasuhiro Yamazaki, and Akira Ikari .............. 137


SHORT COMMUNICATION

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

About the cover: In vitro induction parameters EC50 : panels A & B and Emax : panels C & D obtained with 6 human cryopreserved hepatocyte batches (left) and HepaRG cells (three independent thawing periods) (right), derived from test compound concentration Â–fold change in CYP3A4 mRNA curves. See the article by Boulenc et al. (dx.doi.org/10.1124/dmd.115.065581).