February 2018

Contents

Editorial

Jeffrey C. Stevens ........................................................... 88

Articles


Pregnancy Increases Norbuprenorphine Clearance in Mice by Induction of Hepatic Glucuronidation. Michael Z. Liao, Chunying Gao, Brian R. Phillips, Naveen K. Neradugomma, Lyrialle W. Han, Deepak Kumar Bhatt, Bhagwat Prasad, Danny D. Shen, and Qingcheng Mao ..................................................... 100


Effect of Probiotics on Pharmacokinetics of Orally Administered Acetaminophen in Mice. Jeon-Kyung Kim, Min Sun Choi, Jin-Ju Jeong, Su-Min Lim, In Sook Kim, Hye Hyeon You, and Dong-Hyun Kim .............................................. 122

The JAK1/2 Inhibitor Ruxolitinib Reverses Interleukin-6-Mediated Suppression of Drug-Detriflying Proteins in Cultured Human Hepatocytes. Marie Febvre-James, Arnaud Brayère, Marc Le Vée, and Olivier Fardel .... 131


Toxicokinetics and Physiologically Based Pharmacokinetic Modeling of the Shellfish Toxin Domoic Acid in Nonhuman Primates. Jing Jing, Rebekah Petroff, Sara Shum, Brenda Crouthamel, Ariel R. Topletz, Kimberly S. Grant, Thomas M. Burbacher, and Nina Isoherranen ................................................................. 155

Quantitative Expression of Hepatobiliary Transporters and Functional Uptake of Substrates in Hepatic Two-Dimensional Sandwich Cultures: A Comparative Evaluation of Upcyte and Primary Human Hepatocytes. Michelle Schaefer, Gaku Morinaga, Akiko Matsui, Gerhard Schänzle, Daniel Bischoff, and Roderich D. Süssmuth ................................................................. 166

Discovery and Validation of Pyridoxic Acid and Homovanillic Acid as Novel Endogenous Plasma Biomarkers of Organic Anion Transporter (OAT) 1 and OAT3 in Cynomolgus Monkeys. Hong Shen, David M. Nelson, Regina V. Oliveira, Yueping Zhang, Colleen A. McNaney, Xiaomei Gu, Weiqi Chen, Ching Su, Michael D. Reily, Petia A. Shypkova, Jinping Gan, Yurong Lai, Punit Marathe, and W. Griffith Humphreys .......... 178

Continued on next page
Transporter Expression in Noncancerous and Cancerous Liver Tissue from Donors with Hepatocellular Carcinoma and Chronic Hepatitis C Infection Quantified by LC-MS/MS Proteomics. Sarah Billington, Adrian S. Ray, Laurent Salphati, Guangqing Xiao, Xiaoyan Chu, W. Griffith Humphreys, Mingxiang Liao, Caroline A. Lee, Anita Mathias, Cornelis E. C. A. Hop, Christopher Rowbottom, Raymond Evers, Yurong Lai, Edward J. Kelly, Bhagwat Prasad, and Jashvant D. Unadkat. 189

SHORT COMMUNICATION

Mrp3 Transports Clopidogrel Acyl Glucuronide from the Hepatocytes into Blood. Jin-Zi Ji, Ting Tai, Bei-Bei Huang, Tong-Tong Gu, Qiong-Yu Mi, and Hong-Guang Xie. 151

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

About the cover: Comparison of plasma concentrations vs time profiles for TBPT, M1 and M2 simulated by PBPK modeling vs actual clinical data. See the article by Obach et al. (dx.doi.org/10.1124/dmd.117.078279).