SPECIAL SECTION ON DRUG METABOLISM AND THE MICROBIOME

Drug Metabolism by the Host and Gut Microbiota: A Partnership or Rivalry?. Hollie I. Swanson ................................................................. 1499

Review: Mechanisms of How the Intestinal Microbiota Alters the Effects of Drugs and Bile Acids. Curtis D. Klaassen and Julia Yue Cui ................................................................. 1505

Indole and Tryptophan Metabolism: Endogenous and Dietary Routes to Ah Receptor Activation. Troy D. Hubbard, Iain A. Murray, and Gary H. Perdew ................................................................. 1522

Aryl Hydrocarbon Receptor Activity of Tryptophan Metabolites in Young Adult Mouse Colonocytes. Yating Cheng, Un-Ho Jin, Clint D. Allred, Arul Jayaraman, Robert S. Chapkin, and Stephen Safe ................................................................. 1536

Importance of Large Intestine in Regulating Bile Acids and Glucagon-Like Peptide-1 in Germ-Free Mice. Felcy Pavithra Selwyn, Iván L. Csanaky, Youcai Zhang, and Curtis D. Klaassen ................................................................. 1544

Microbiome Disturbances and Autism Spectrum Disorders. Cheryl S. Rosenfeld ................................................................. 1557

RNA-Seq Quantification of Hepatic Drug Processing Genes in Germ-Free Mice. Felcy Pavithra Selwyn, Julia Yue Cui, and Curtis D. Klaassen ................................................................. 1572

Gut Microbiota-Mediated Drug-Antibiotic Interactions. Dong-Hyun Kim ................................................................. 1581

Intestinal Absorption and Metabolism of Epimedium Flavonoids in Osteoporosis Rats. Jing Zhou, Yi Hua Ma, Zhong Zhou, Yan Chen, Ying Wang, and Xia Gao ................................................................. 1590

The Presystemic Interplay between Gut Microbiota and Orally Administered Calycosin-7-O-β-D-Glucoside. Jian-Qing Ruan, Shang Li, Ya-Ping Li, Wen-Jin Wu, Simon Ming-Yuen Lee, and Ru Yan ................................................................. 1601

Continued on next page
Single-Nucleotide Polymorphisms in Cytochrome P450 2E1 (CYP2E1) 3'-Untranslated Region Affect the Regulation of CYP2E1 by miR-570. Masataka Nakano, Takuya Mohri, Tatsuki Fukami, Masataka Takamiya, Yasuhiro Aoki, Howard L. McLeod, and Miki Nakajima. 1450

Role of Specificity Protein 1, Hepatocyte Nuclear Factor 1α, and Pregnane X Receptor in the Basal and Rifampicin-Induced Transcriptional Regulation of Porcine Cytochrome P450 3A46. Linfeng Dong, Qingmei Chen, Xin Liu, Jikai Wen, Jun Jiang, and Yiqun Deng. 1458

Inhibition of Human UDP-Glucuronosyltransferase Enzymes by Canagliflozin and Dapagliflozin: Implications for Drug-Drug Interactions. Attarat Pattanawongsa, Nuy Chau, Andrew Rowland, and John O. Miners. 1468

Disposition of Basal Insulin Peglispro Compared with 20-kDa Polyethylene Glycol in Rats Following a Single Intravenous or Subcutaneous Dose. Mary Pat Knadler, Bernice B. Ellis, Patricia L. Brown-Augsburger, Anthony T. Murphy, Jennifer A. Martin, and Victor J. Wroblewski. 1477

CYP3A Activity and Expression in Nonalcoholic Fatty Liver Disease. Sarah J. Woolsey, Sara E. Mansell, Richard B. Kim, Rommel G. Tirona, and Melanie D. Beaton. 1484

In Vitro and In Vivo Characterization of Reactive Intermediates of Corynoline. Xu Mao, Ying Peng, and Jiang Zheng. 1491

Human Liver Cytochrome P450 Enzymes and Microsomal Thiol Methyltransferase Are Involved in the Stereoselective Formation and Methylation of the Pharmacologically Active Metabolite of Clopidogrel. Cai Liu, Zhaoqiang Chen, Kan Zhong, Liang Li, Weiliang Zhu, Xiaoyan Chen, and Dafang Zhong. 1632

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

About the cover: A representation of the emerging interplay that exists between the gut microbiota and liver in mediating drug metabolism. Lower left image by N.R. Fuller of Sayo-Art LLC. Digestive system image by Alena Hovorkova/Shutterstock.com.