CONTENTS

MINIREVIEW

Role of Extracellular Vesicle-Derived Biomarkers in Drug Metabolism and Disposition. Zivile Useckaite, A. David Rodrigues, Ashley M. Hopkins, Lauren A. Newman, Jillian Johnson, Michael J. Sorich, and Andrew Rowland ......................... 961

ARTICLES

Identification of Food-Derived Isoflavone Sulfates as Inhibition Markers for Intestinal Breast Cancer Resistance Proteins. Rina Agustina, Yusuke Masuo, Yasuto Kido, Kyosuke Shinoda, Takahiro Ishimoto, and Yukio Kato ......................... 972

The Interleukin-6/Signal Transducer and Activator of Transcription-3/Cystathionine γ-Lyase Axis Deciphers the Transformation Between the Sensitive and Resistant Phenotypes of Breast Cancer Cells. Zhaoyi Tan, Chun Ge, Dong Feng, Chen Xu, Bei Cao, Yuan Xie, Honghao Zhou, Guangji Wang, and Jiye Aa. ......................... 985

Reaction Phenotyping of Low-Turnover Compounds in Long-Term Hepatocyte Cultures Through Persistent Selective Inhibition of Cytochromes P450. Sheri Smith, Michael Lyman, Bennett Ma, Donald Tweedie, and Karsten Menzel. ......................... 995

Predicting Maternal-Fetal Disposition of Fentanyl Following Intravenous and Epidural Administration Using Physiologically Based Pharmacokinetic Modeling. Sara Shum, Danny D. Shen, and Nina Isoherranen ......................... 1003

Identification of Human UDP-Glucuronosyltransferase and Sulfotransferase as Responsible for the Metabolism of Dotinurad, a Novel Selective Urate Reabsorption Inhibitor. Koichi Omura, Keisuke Motoki, Seiichi Kobashi, Kengo Miyata, Katsuhiro Yamano, and Takashi Iwanaga ......................... 1016

Elucidation of Metabolic and Disposition Pathways for Maribavir in Nonhuman Primates through Mass Balance and Semi-Physiologically Based Modeling Approaches. Kefeng Sun and Devin Welty. ......................... 1025

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

About the cover: Overview of extracellular vesicle cargo relevant to general characterization and DMD analysis. See the article by Useckaite et al (dx.doi.org/10.1124/dmd.121.000411).