DRUG METABOLISM
AND DISPOSITION

A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2022

Vol. 50, No. 1

CONTENTS

SPECIAL SECTION ON ADME DATABASES

MINIREVIEW
Pharmacokinetic Drug-Drug Interactions with Drugs Approved by the US Food and Drug Administration in 2020: Mechanistic Understanding and Clinical Recommendations. Jingjing Yu, Yan Wang, and Isabelle Ragueneau-Majlessi. 1

ARTICLES
Simultaneous Evaluation of Membrane Permeability and UDP-Glucuronosyltransferase–Mediated Metabolism of Food-Derived Compounds Using Human Induced Pluripotent Stem Cell–Derived Small Intestinal Epithelial Cells. Takashi Kitaguchi, Taisei Mizota, Mina Ito, Katsutoshi Ohno, Kazuhiro Kobayashi, Isamu Ogawa, Shimeng Qiu, Takahiro Iwao, Nobumitsu Hanioka, Mitsuru Tanaka, and Tamhide Matsunaga. 17
Ontogeny of Scaling Factors for Pediatric Physiology-Based Pharmacokinetic Modeling and Simulation: Microsomal Protein Per Gram of Liver. J. Steven Leeder, Jean C. Dinh, Andrea Gaedigk, Vincent S. Staggs, Bhagwat Prasad, and Robin E. Pearce. 24
Intestinal UDP-Glucuronosyltransferase 1A1 and Protection against Irinotecan-Induced Toxicity in a Novel UDP-Glucuronosyltransferase 1A1 Tissue-Specific Humanized Mouse Model. Elvira Mennillo, Xiaojing Yang, Andre A. Weber, Yoshihiro Maruo, Melanie Verreault, Olivier Barbier, Shujuan Chen, and Robert H. Tavey. 33
Transcriptional Regulation of Carboxylesterase 1 in Human Liver: Role of the Nuclear Receptor Subfamily 1 Group H Member 3 and Its Splice Isoforms. Joseph M. Collins, Rong Lu, Xinwen Wang, Hao-Jie Zhu, and Daxin Wang. 43
Cytochrome P450 Binding and Bioactivation of Tumor-Targeted Duocarmycin Agents. Aaron G. Bart, Goreti Morais, Venu R. Vangala, Paul M. Loadman, Klaus Pors, and Emily E. Scott. 49
New Pharmacokinetic Parameters of Imaging Substrates Quantified from Rat Liver Compartments. Catherine M. Pastor and Kim L.R. Brouwer. 58

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

About the cover: Nine representative databases describing the information of transporters and transporter families. See the article by Yin et al. (dx.doi.org/10.1124/dmd.121.000419).