MINIREVIEW

50TH ANNIVERSARY CELEBRATION COLLECTION

Metabolism and Excretion of Therapeutic Peptides: Current Industry Practices, Perspectives, and Recommendations
Minxia Michelle He, Sean Xiaochun Zhu, Joe R. Cannon, Jesper Kammersgaard Christensen, Ruchia Duggal, Mithat Gunduz, Constanze Hilgendorf, Adam Hughes, Ivy Kekessie, Maximilian Kullmann, Dennis Leung, Carsten Terjung, Kai Wang, and Frank Wesche

COMMENTARY

Kirchhoff’s Laws and Hepatic Clearance, Well-Stirred Model – Is There Common Ground?
Malcolm Rowland, Michael Weiss, and K. Sandy Pang

ARTICLES

The Utility of Mixed Effects Models in the Evaluation of Complex Genomic Traits In Vitro
Nathan Alade, Abhinav Nath, Nina Isoherranen, and Kenneth E. Thummel

Exploring the Boundaries for In Vitro–In Vivo Extrapolation: Use of Isolated Rat Hepatocytes in Co-culture and Impact of Albumin Binding Properties in the Prediction of Clearance of Various Drug Types
Laura Francis, Kayode Ogungbenro, Tom De Brayn, J. Brian Houston, and David Hallifax

CYP2D6 Activity Is Correlated with Changes in Plasma Concentrations of Taurocholic Acid during Pregnancy and Postpartum in CYP2D6 Extensive Metabolizers
Lindsay C. Czuba, Karan Malhotra, Luke Enthoven, Emily E. Fay, Sue L. Moreni, Jennie Mao, Yuanyuan Shi, Weize Huang, Rheem A. Total, Nina Isoherranen, and Mary F. Hebert

Goldenseal-Mediated Inhibition of Intestinal Uptake Transporters Decreases Metformin Systemic Exposure in Mice
Victoria O. Oyanna, Kenisha Y. Garcia-Torres, Baron J. Bechtold, Katherine D. Lynch, M. Ridge Call, Miklós Horváth, Preston K. Manwill, Tyler N. Graf, Nadja B. Cech, Nicholas H. Oberlies, Mary F. Paine, and John D. Clarke

Human Carboxylesterase 1A Plays a Predominant Role in Hydrolysis of the Anti-Dyslipidemia Agent Fenofibrate in Humans
Hong-Xin Li, Meng-Ru Sun, Ya Zhang, Li-Lin Song, Feng Zhang, Yun-Qing Song, Xu-Dong Hou, and Guang-Bo Ge

Heterodimerization of Human UDP-Glucuronosyltransferase 1A9 and UDP-Glucuronosyltransferase 2B7 Alters Their Glucuronidation Activities
Jia Xue, Jiayi Yin, Jing Nie, Huidi Jiang, Haitao Zhang, and Su Zeng

A Comprehensive Evaluation of the Effects of RNA-Editing Proteins ADAR and ADARB1 on the Expression of the Drug-Metabolizing Enzymes in HepaRG Cells
Joseph M. Collins and Danxin Wang

About the cover: “Variable modes of drug-induced changes in uric acid reabsorptive transport via URAT1.” See the article by Fujita et al. (dx.doi.org/10.1124/dmd.123.001412).
Prediction of Drug–Drug Interactions with Ensartinib as a Time-Dependent CYP3A Inhibitor Using Physiologically Based Pharmacokinetic Model

Xiaowen Wang, Yiqun Yu, Hongrui Liu, Fengjiao Bu, Chunying Shen, Qingfeng He, Xiao Zhu, Pin Jiang, Bing Han, and Xiaoqiang Xiang

Potentiation of the Uricosuric Effect of Dotinurad by Trans-Inhibition of the Uric Acid Reabsorptive Transporter 1

Kazuki Fujita, Qiunan Zhu, Hiroshi Arakawa, Yoshiyuki Shirasaka, and Ikumi Tamai

Pharmacokinetics and Absorption, Distribution, Metabolism and Excretion of RGLS4326 in Mouse and Monkey, an Anti–miR-17 Oligonucleotide for the Treatment of Polycystic Kidney Disease

Amin Kamel, Tate Owen, Izaiah Cole, Tania Valencia, and Edmund C. Lee