MINIREVIEW


SHORT COMMUNICATIONS


Measurement of Binding of Basic Drugs to Acidic Phospholipids Using Surface Plasmon Resonance and Incorporation of the Data into Mechanistic Tissue Composition Equations to Predict Steady-State Volume of Distribution. Helen Small, Iain Gardner, Hannah M. Jones, John Davis, and Malcolm Rowland ...... 1789

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Kinetic Characterization of Rat Hepatic Uptake of 16 Actively Transported Drugs. Yoshiyuki Yabe, Aleksandra Galetin, and J. Brian Houston .... 1808

Thioacetamide Intoxication Triggers Transcriptional Up-Regulation but Enzyme Inactivation of UDP-Glucuronosyltransferases. Haiping Hao, Lifang Zhang, Shan Jiang, Shiqing Sun, Ping Gong, Yuan Xie, Xueyan Zhou, and Guangji Wang ....... 1815

Bioactivation Pathways of the Cannabinoid Receptor 1 Antagonist Rimonabant. Moa Andresen Bergstrom, Emre M. Isin, Neal Castagnoli Jr., and Claire E. Milne .......... 1823

Pharmacokinetic Optimization of 4-Substituted Methoxybenzoyl-aryl-thiazole and 2-Aryl-4-benzoylimidazole for Improving Oral Bioavailability. Chien-Ming Li, Jianjun Chen, Ramesh Narayan, Deanna N. Parke, Wei Li, Sunjoo Ahn, Duane D. Miller, and James T. Dalton ... 1833

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Mechanisms of Reduced Maternal and Fetal Lopinavir Exposure in a Rat Model of Gestational Diabetes. Gregory J. Anger and Micheline Piquette-Miller ... 1850

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Enhancement of Oral Bioavailability of 20(S)-Ginsenoside Rh2 through Improved Understanding of Its Absorption and Efflux Mechanisms. Zhen Yang, Song Gao, Jingrong Wang, Taijun Yin, Yang Teng, Baojian Wu, Ming You, Zhihong Jiang, and Ming Hu ........... 1866

Pharmacokinetics, Pharmacodynamics, Metabolism, Distribution, and Excretion of Carfilzomib in Rats. Jinfu Yang, Zhengping Wang, Ying Fang, Jing Jiang, Frances Zhao, Hansen Wong, Mark K. Bennett, Christopher J. Molineaux, and Christopher J. Kirk . 1873

Metabolite Profiles of Degarelix, a New Gonadotropin-Releasing Hormone Receptor Antagonist, in Rat, Dog, and Monkey. Anders Sonesson, Wolfgang Koechling, Jacek Stalewski, Łaszłó B. Tankó, and Birgitte Buur Rasmussen ....... 1895

Brain Regional Pharmacokinetics of p-Aminosalicylic Acid and Its N-Acetylated Metabolite: Effectiveness in Chelating Brain Manganese. Lan Hong, Wendy Jiang, Hao Pan, Yueming Jiang, Su Zeng, and Wei Zheng ..................... 1904

Enabling Clearance Predictions to Emerge from In Silico Actions of Quasi-Autonomous Hepatocyte Components. Shahab Sheikh-Bahaei and C. Anthony Hunt .................. 1910

Predictive Utility of In Vitro Rifampin Induction Data Generated in Fresh and Cryopreserved Human Hepatocytes, Fa2N-4, and HepaRG Cells. Ian E. Templeton, J. Brian Houston, and Aleksandra Galetin .... 1921

The Impact of Hepatic Uptake on the Pharmacokinetics of Organic Anions. Philip Gardiner and Stuart W. Paine .................. 1930

Characterization and Crystallization of Mouse Aldehyde Oxidase 3: From Mouse Liver to Escherichia coli Heterologous Protein Expression. Martin Mahro, Catarina Coelho, José Trincão, David Rodrigues, Mineko Terao, Enrico Garattini, Miguel Saggu, Friedhelm Lendzian, Peter Hildebrandt, Maria João Romão, and Silke Leimkuhler ............... 1939

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Conjugation of Synthetic Cannabinoids JWH-018 and JWH-073, Metabolites by Human UDP-Glucuronosyltransferases. Krishna C. Chimalakonda, Stacie M. Bratton, Vi-Huyen Le, Kan Hui Yiew, Anna Dineva, Cindy L. Moran, Laura P. James, Jeffery H. Moran, and Anna Radominska-Pandya . 1967


CYP4F3B Expression Is Associated with Differentiation of HepaRG Human Hepatocytes and Unaffected by Fatty Acid Overload. Stéphanie Madec, Virginie Cercé, Emmanuelle Plée-Gautier, Joseph Antoun, Denise Glaise, Jean-Pierre Salam, Christiane Guguen-Guillouzo, and Anne Corlu .... 1987

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About the cover: Relationship between the inhibitory effects of gemfibrozil 1-O-β-glucuronide on CYP2C8 and OATP1B1 activity and observed increases in repaglinide AUC/AUCr. The curved contour depicts the best-fit model, and red symbols identify CYP2C8*3 genotypes. See the article by Honkalanni et al. on page 1977 of this issue.