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

[S] 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

[S] Bioactivation Pathways of the Cannabinoid Receptor 1 Antagonist Rimonabant. Moa Andrensen Bergström, Emre M. Isin, Neal Castagnoli Jr., and Claire E. Milne ................ 1823

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

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5 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

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In Vitro and In Vivo Metabolism of a Selective δ-Opioid Receptor. Jianfu Yang, Zhengping Wang, Ying Fang, Jing Jiang, Frances Zhao, Hansen Wong, Mark K. Bennett, Christopher J. Molineaux, and Christopher J. Kirk .................. 1883

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

5 Predictive Utility of In Vitro Rifampin Induction Data Generated in Fresh and Cryopreserved Human Hepatocytes, Fa2N-4, and HepaRG Cells. Ian E. Templetón, 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


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

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/AUC0. 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.