MINIREVIEW


SHORT COMMUNICATIONS

Pharmacokinetics of Daikenchuto, a Traditional Japanese Medicine (Kampo) after Single Oral Administration to Healthy Japanese Volunteers. Masaya Munekage, Hiroyuki Kitagawa, Kengo Ichikawa, Junko Watanabe, Katsuyuki Aoki, Toru Kono, and Kazuhiro Hanazaki .............. 1784

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

ARTICLES


Kinetic Characterization of Rat Hepatic Uptake of 16 Actively Transported Drugs. Yoshituki 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, Yan Lu, Ramesh Narayanan, Deanna N. Parke, Wei Li, Sunjoo Ahn, Duane D. Miller, and James T. Dalton .............. 1833

Significant Species Difference in Amide Hydrolysis of GDC-0834, a Novel Potent and Selective Bruton’s Tyrosine Kinase Inhibitor. Lichuan Liu, Jason S. Halladay, Young Shin, Susan Wong, Melis Coraggio, Hank La, Matthew Baumgardner, Hua Le, Sashi Gopaul, Jason Boggs, Peter Kuebler, John C. Davis Jr., X. Charlene Liao, Joseph W. Lubach, Alan Deese, C. Gregory Sowell, Kevin S. Currie, Wendy B. Young, S. Cyrus Khosjaste, Cornelis E. C. A. Hop, and Harvey Wong .............. 1840

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

Functional Characterization of CYP2B6 Allelic Variants in Demethylation of Antimalarial Artemether. Masashi

Continued on next page
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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, Baoqian 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

In Vitro and In Vivo Metabolism of a Selective δ-Opioid Receptor. Jian Guo, Chungang Gu, Diansong Zhou, Charles S. Elmore, Khanh H. Bui, and Scott W. Grimm . 1883

Metabolite Profiles of Degarelix, a New Gonadotropin-Releasing Hormone Receptor Antagonist, in Rat, Dog, and Monkey. Anders Sonesson, Wolfgang Koehler, Jacek Stalewski, Laszlo B. Tanko, 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

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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 Leimkühler ............... 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, V-Huyen Le, Kan Hui Yiew, Anna Dineva, Cindy L. Moran, Laura P. James, Jeffery H. Moran, and Anna Radominska-Pandya . 1967


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