**CONTENTS**

**SYMPOSIUM ARTICLE**

Targeting Drug-Metabolizing Enzymes for Effective Chemoprevention and Chemotherapy. Hollie I. Swanson, Vincent C. O. Njar, Zhen Yu, David J. Castro, Frank J. Gonzalez, David E. Williams, Ying Huang, Ah-Ng T. Kong, Joshua C. Doloff, Jie Ma, David J. Waxman, and Emily E. Scott .......................... 539

**ARTICLES**


Disposition and Metabolism of Semagacestat, a γ-Secretase Inhibitor, in Humans. Ping Yi, Chad Hadden, Pulamippavan Kalanthaivel, Nathan Calvert, William Annes, Thomas Brown, Robert J. Barbuch, Archana Chaudhary, Mosan A. Ayan-Oshodi, and Barbara J. Ring .................................................. 554

Monoclonal Antibody-Glial-Derived Neurotrophic Factor Fusion Protein Penetrates the Blood-Brain Barrier in the Mouse. Qing-Hui Zhou, Ruben J. Boado, Jeff Zhiqiang Lu, Eric Ka-Wai Hui, and William M. Pardridge ......................................................... 566

Role of P-Glycoprotein in the Disposition of Macro cyclic Lactones: A Comparison between Ivermectin, Eprinomectin, and Moxidectin in Mice. Solange Kiki-Mvouaka, Cécile Ménez, Christiane Borin, Faouzi Lyarhi, Magali Foucaud-Vignon, Jacques Dupuy, Xavier Collet, Michel Alvinerie, and Anne Lespine ............................................................... 573

Species Differences in the Formation of Vabicaserin Carbamoyl Glucuronide. Zeen Tong, Appavu Chandrasekaran, William DeMaio, Ronald Jordan, Hongshan Li, Robin Moore, Nagaraju Poola, Peter Burghart, Theresa Hultin, and JoAnn Scatina ......................................................... 581

Hepatocyte Nuclear Factor 4α Regulates Rifampicin-Mediated Induction of CYP2C Genes in Primary Cultures of Human Hepatocytes. Ruta Ranu, Yaping Chen, Stephen S. Ferguson, Grace E. Kissling, Saitesh Suraparreddy, and Joyce A. Goldstein ......................................................... 591

Pharmacokinetics of Humanized Monoclonal Anti-Tumor Necrosis Factor-α Antibody and Its Neonatal Fc Receptor Variants in Mice and Cynomolgus Monkeys. Rong Deng, Kelly M. Loyet, Samantha Lien, Suhasini Iyer, Laura E. DeForge, Frank-Peter Theil, Henry B. Lowman, Paul J. Fielder, and Saileeta Prabhu ......................................................... 600

Metabolism of Intravenous Methylaltrexone in Mice, Rats, Dogs, and Humans. Appavu Chandrasekaran, Zeen Tong, Hongshan Li, John C. L. Erve, William DeMaio, Igor Goljer, Oliver McConnell, Yakov Rotshteyn, Theresa Hultin, Rasmy Talaat, and JoAnn Scatina ......................................................... 606

Phase II Metabolism of Hesperetin by Individual UDP-Glucuronosyltransferases and Sulfotransferases and Rat and Human Tissue Samples. Walter Brand, Marelle G. Boersma, Hanneke Bik, Elisabeth F. Hoek-van den Hil, Jacques Versvoort, Denis Barron, Walter Meinl, Hansruedi Glatt, Gary Williamson, Peter J. van Bladeren, and Ivonne M. C. M. Rietjens ......................................................... 617

Identification of the UDP-Glucuronosyltransferase Isozyme Involved in Senecionine Glucuronidation in Human Liver Microsomes. Yu-Qi He, Yong Liu, Bin-Feng Zhang, Hui-Xin Liu, Yan-Liu Lu, Li Yang, Ai-Zhen Xiong, Ling-Ling Xu, and Liang-Xin Yang ......................................................... 622

Continued on next page
About the cover: Uptake of DAPI in HEK293 cells transiently expressing hMATEs. The fluorescent microscopic images of DAPI were obtained after incubation of HEK293 cells transiently expressing hMATE1, those expressing hMATE2-K, and mock cells with DAPI (0.5 μM) at 37°C and pH 7.4 for 20 min. Also shown are the images of cotransfected GFP. See the article by Yasujima et al. on page 715 of this issue.