SHORT COMMUNICATIONS

Cigarette Smoke Extract Induces CYP2B6 through Constitutive Androstane Receptor in Hepatocytes. Ikumi Washio, Makiko Maeda, Chika Sugihara, Ryota Shiga, Mitsuihiro Yoshida, Shinpei Nonen, Yasushi Fujio, and Junichi Azuma ........... 1

Pregnancy Decreases Rat CYP1A2 Activity and Expression. Alysa A. Walker, Leslie Dickmann, and Nina Isoherranen ................... 4

ARTICLES

Quantitative Investigation of the Impact of P-Glycoprotein Inhibition on Drug Transport across Blood-Brain Barrier in Rats. Hiroshi Sugimoto, Hideki Hirabayashi, Yoshiaki Kimura, Atsutoshi Furuta, Nobuyuki Amano, and Toshiya Moriwaki ................ 8

Whole-Body Physiologically Based Pharmacokinetic Model for Nutlin-3a in Mice after Intravenous and Oral Administration. Fan Zhang, Michael Tagen, Stacy Throm, Jeremy Mallari, Laura Miller, R. Kiplin Guy, Michael A. Dyer, Richard T. Williams, Martine F. Roussel, Katie Nemeth, Fangyi Zhu, Jiakun Zhang, Min Lu, John C. Panetta, Nidal Boulos, and Clinton F. Stewart .................... 15

Activation of the Acute Inflammatory Response Alters Cytochrome P450 Expression and Eicosanoid Metabolism. Katherine N. Theken, Yangmei Deng, M. Alison Kannon, Tricia M. Miller, Samuel M. Poloyac, and Craig R. Lee ............... 22

Identification of Human Liver Cytochrome P450 Enzymes Involved in the Metabolism of SCH 530348 (Vorapaxar), a Potent Oral Thrombin Protease-Activated Receptor 1 Antagonist. Anima Ghosal, Xiaowen Lu, Natalia Penner, Lan Gao, Ragu Ramathan, Swapani K. Chowdhury, Narendra S. Kishnani, and Kevin B. Alton ..... 30

Inhibition of Human Sterol Δ7-Reductase and Other Postlanosterol Enzymes by PK-980, a Novel Inhibitor of Cholesterol Synthesis. Jure Ačimović, Tina Korošec, Matej Seliškar, Ingemar Bjorkhem, Katalin Monostory, Pal Szabo, Jean-Marc Pascussi, Ales Belič, Uroš Urleb, Darko Kocjan, and Damjana Rozman ............ 39

Characterization of Digoxin Uptake in Sandwich-Cultured Human Hepatocytes. Emi Kimoto, Jonathan Chapka, Yongling Xiao, Yi-an Bi, and David B. Duignan .................. 47


A Baeyer-Villiger Oxidation Specifically Catalyzed by Human Flavin-Containing Monoxygenase 5. W. George Lai, Nadia Farah, George A. Montz, and Y. Nancy Wong ..................... 61

Brain-Penetrating Tumor Necrosis Factor Decoy Receptor in the Mouse. Qing-Hui Zhou, Ruben J. Boado, Eric Ka-Wai Hui, Jeff Zhiqiang Lu, and William M. Pardridge ......................... 71

Histone Deacetylase Inhibitors Increase Human Arylamidine N-Acetyltransferase-1 Expression in Human Tumor Cells. Scott Paterson, Kok L. Sin, Jacky M. Tiang, Rodney F. Minchin, and Neville J.
Supplemental material is available online at http://dmd.aspetjournals.org.

About the cover: Molecular binding surface area and binding site structural comparison of lovastatin and simvastatin in wild-type CYP102A1 and its mutants. See the article by Kim et al. on page 140 of this issue.