SHORT COMMUNICATIONS

Cigarette Smoke Extract Induces CYP2B6 through Constitutive Androstane Receptor in Hepatocytes. Ikumi Washio, Makiko Maeda, Chika Sugurra, Ryo Ta Shiga, Mitsuhiryo 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


Activation of the Acute Inflammatory Response Alters Cytochrome P450 Expression and Eico-sanoid Metabolism. Katherine N. Theken, Yang-meii 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. Anita Ghosal, Xiaowen Lu, Natalia Penner, Lan Gao, Raghu Ramanathan, Swapna K. Chowdhury, Narendra S. Kishnani, and Kevin B. Alton .... 30

Inhibition of Human Sterol Δ7-Reductase and Other Postlanosterol Enzymes by LY-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 Kocijan, 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. Dutignan .................. 47


A Baeyer-Villiger Oxidation Specifically Catalyzed by Human Flavin-Containing Monoxygenase S. 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. Bando, Eric Ka-Wai Hui, Jeff Zhiqiang Lu, and William M. Pardridge .................. 71

Histone Deacetylase Inhibitors Increase Human Arylamine N-Acetyltransferase-1 Expression in Human Tumor Cells. Scott Paterson, Kok L. Sin, Jacky M. Tiang, Rodney F. Minchin, and Neville J.
The Aryl Hydrocarbon Receptor Pathway and the Response to 3-Methylcholanthrene Are Altered in the Liver of Adrenalectomized Rats. Anne K. Mullen Grey, and David S. Riddick...83

Effects of Pregnan X Receptor (NR1I2) and CYP2B6 Genetic Polymorphisms on the Induction of Bu- propion Hydroxylation by Rifampin. Jae Yong Chung, Joo-Youn Cho, Hyeong-Seok Lim, Jung-Ryul Kim, Kyung-Sang Yu, Kyoung Soo Lim, Sang-Goo Shin, and In-Jin Jang...92

In Vitro Cytochrome P450-Mediated Metabolism of Exemestane. Landry K. Kamdem, David A. Flockhart, and Zeruesenay Desta...98


Organic Cation Transporter-Mediated Renal Secretion of Ipratropium and Tiotropium in Rats and Humans. Takeo Nakanishi, Tsunemitsu Haruta, Yoshiyuki Shirasaka, and Ikumi Tamai...117


Generation of Human Chiral Metabolites of Simvastatin and Lovastatin by Bacterial CYP102A1 Mutants. Keon-Hee Kim, Ji-Yeon Kang, Dong-Hyun Kim, Sun-Ha Park, Seon Ha Park, Dooil Kim, Ki Deok Park, Young Ju Lee, Heung-Chae Jung, Jae-Gu Pun, Taeho Ahn, and Chul-Ho Yun...140

Identification of Clinically Used Drugs That Activate Pregnan X Receptors. Sunita J. Shukla, Srilatha Sakamuru, Ruili Huang, Timothy A. Moeller, Paul Shimm, Danielle VanLeer, Douglas S. Auld, Christopher P. Austin, and Menghang Xia...151

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.