CONTENTS

SHORT COMMUNICATIONS

Cigarette Smoke Extract Induces CYP2B6 through Constitutive Androstane Receptor in Hepatocytes. Ikumi Washio, Makiko Maeda, Chika Sugitou, Ryota Shiga, Mitsuhiro Yoshida, Shinpei Nonen, Yamushi Fujio, and Junjichi Azuma ........... 1

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

ARTICLES


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, Yamei 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, Ragul Ramanathan, Swapani K. Chowdhury, Narendra S. Kishnani, and Kevin B. Alton .......... 30

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

Charactetization of DIGoxin Uptake in Sandwich-Cultured Human Hepatocytes. Emi Kimoto, Jonathan Chapka, Yongling Xiao, Yi-an Bi, and David B. Dutignan .................... 47


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 Arylamine N-Acetyltransferase-1 Expression in Human Tumor Cells. Scott Paterson, Kok L. Sin, Jacky M. Tiang, Rodney F. Minchin, and Neville J. 

Continued on next page
Butcher ........................... 77

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 Pregnane X Receptor (NR1I2) and CYP2B6 Genetic Polymorphisms on the Induction of Bupropion 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


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

[S] 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.