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

MOLECULAR CLONING OF THE BABOON UDP-GLUCURONOSYLTRANSFERASE 2B GENE FAMILY AND THEIR ACTIVITY IN CONJUGATING MORPHINE.

Kirsten Abildskov, Piper Weldy, and Marianne Garland....545

DISPOSITION AND METABOLISM OF SEMAGACESTAT, A \gamma\textit{-SECRETASE INHIBITOR, IN HUMANS.}

Ping Yi, Chad Hadden, Pulamiappan Kulanthaivel, Nathan Calvert, William Annes, Thomas Brown, Robert J. Barbuch, Archana Chaudhary, Mosun A. Ayan-Oshodi, and Barbara J. Ring............554

MONOCLONAL ANTIBODY-GIAL-DERIVED NEUROTROPIC FACTOR 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-GLYCO PROTEIN IN THE DISPOSITION OF MACROC YCLIC LACTONES: A COMPARISON BETWEEN IVER MECTIN, EPRINOMECTIN, AND MOXIDECTIN IN MICE.

Solange Kiki-Mvouaka, Cécile Ménez, Christiane Borin, Faouri Lyazrhi, Magali Foucaud-Vignault, 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 Poolla, Peter Burghart, Theresa Hultin, and JoAnn Scatina.............581

HEPATO CELLULAR GLUCURONOSYLTRANSFERASE 2C \alpha\textit{ ACTIVITY AS A BIOMARKER OF CYTOPLASMIC FLAVIN ENZYMES IN LIVER TISSUE.}

Yoshio Kondo, Stephen S. P. Fong, and Valerio Calabrese............591

PHARMACOKINETICS OF HUMANIZED MONOCLONAL ANTIBODY TO TUMOR NECROSIS FACTOR-\alpha\textit{ ANTIBODY AND ITS NEO NATAL Fc RECEPTOR VARIANTS IN MICE.}

Rong Deng, Kelly M. Loyet, Samantha Lien, Suhasini Iyer, Laura E. DeFurge, Frank-Peter Theil, Henry B. Lowman, Paul J. Fielder, and Saileta Prabhu........600

METABOLISM OF INTRAVENOUS METHYLNALTREXONE 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........ Carolina Lee, Donald A. Stevens, and Andrew C. Vinyard...........606

PHASE II METABOLISM OF HESPERETIN BY INDIVIDUAL UDP-GLUCURONOSYLTRANSFERASES AND SULFOTRANSFERASES AND RAT AND HUMAN TISSUE SAMPLES.

Walter Brand, Mareille G. Boersma, Hanneke Bik, Elisabeth F. Hoek-van den Hil, Jacques Vervoort, 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 SENECEIONE GLUCONOIDATION IN HUMAN LIVER MICROSONES.

Yu-Qi He, Yong Liu, Bin-Feng Zhang, Hui-Xin Liu, Yan-Liu Lu, Li Yang, Ai-Zhen Xiong, Ling-Ling Xu, and Huaxia Yang...........626

Continued on next page
Contents (cont’d.)

Chang-Hong Wang, Ling Yang, and Zheng-Tao Wang ........................................... 626


Cross-Species Comparison of the Metabolism and Excretion of Zoniporide: Contribution of Aldehyde Oxidase to Interspecies Differences. Deepak Dalvie, Chenghong Zhang, Weichao Chen, Teresa Smolarek, R. Scott Obach, and Cho-Ming Loi ...................... 641


Xenobiotic-Metabolizing Cytochromes P450 in Human White Adipose Tissue: Expression and Induction. Sandrine Ellero, Ghassan Chakhtoura, Corinne Barreau, Sophie Langouët, Chantal Benelli, Luc Penicaud, Philippe Beaune, and Isabelle de Waziers ........................................... 679

How Many and Which Amino Acids Are Responsible for the Large Activity Differences between the Highly Homologous UDP-Glucuronosyltransferases (UGT) 1A9 and UGT1A10? Katriina Itäaho, Liisa Laakkonen, and Moshe Finel ........ 687

Polychlorinated Biphenyl-Mediated Decrease in Serum Thyroxine Level in Rodents. Yoshihisa Kato, Koichi Haraguchi, Yuriko Ito, Aki Fujii, Tomoaki Yamazaki, Tetsuya Endo, Nobuyuki Koga, Shizuo Yamada, and Masakuni Degawa ........... 697


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.