February 2007

CONTENTS

SHORT COMMUNICATIONS

The in Vitro Drug Interaction Potential of Dietary Supplements Containing Multiple Herbal Components. ROBERT S. FOTTI, JAN L. WAHLSTROM, AND LARRY C. WIENKERS ................................. 185

Human Hepatic Cytochrome P450-Specific Metabolism of Parathion and Chlorpyrifos. ROBERT J. FOXENBERG, BARBARA P. MCGARRIGLE, JAMES B. KNAAK, PAUL J. KOSTYNIAK, AND JAMES R. OLSON .......... 189

ARTICLES


Flavonoids Modulate Monocarboxylate Transporter-1-Mediated Transport of γ-Hydroxybutyrate in Vitro and in Vivo. Qi WANG AND MARILYN E. MORRIS .......................... 201

Involvement of Breast Cancer Resistance Protein (BCRP/ABCG2) in the Biliary Excretion and Intestinal Efflux of Troglitazone Sulfate, the Major Metabolite of Troglitazone with a Cholestatic Effect. JUNICHI ENOKIZONO, HIROYUKI KUSUHARA, AND YUICHI SUGIYAMA ............... 209

Utility of Long-Term Cultured Human Hepatocytes as an in Vitro Model for Cytochrome P450 Induction. GEORGINA MENESES-LORENTE, CHRISTINE PATTISON, CLAIRE GUYOMARD, CHRISTOPHE CHESNÉ, ROBERT HEAVENS, ALAN P. WATT, AND BINDI SOHAL ........................ 215

Triethylenetetramine and Metabolites: Levels in Relation to Copper and Zinc Excretion in Urine of Healthy Volunteers and Type 2 Diabetic Patients. JUN LU, YI-KAI CHAN, GREGORY D. GAMBLE, SALLY D. POPPIT, ASMA A. OTHMAN, AND GARTH J. S. COOPER ................. 221

Effects of Green Tea Compounds on Irinotecan Metabolism. SNEZANA MIRKOV, BERNARD J. KOMOROSKI, JACQUELINE RAMÍREZ, ANDREA YODER GRABER, MARK J. RATAIN, STEPHEN C. STROM, AND FEDERICO INNOCENTI ............. 228

Pharmacokinetics, Tissue Distribution, Metabolism, and Excretion of Depside Salts from Salvia miltiorrhiza in Rats. XIAOCHUAN LI, WENXING CHEN, LIJIAN QI, YUYING YANG, LING HUANG, AND YIFENG WANG ................. 234

Effect of Goldenseal (Hydrastis canadensis) and Kava Kava (Piper methysticum) Supplementation on Digoxin Pharmacokinetics in Humans. BILL J. GURLEY, ASHLEY SWAIN, GARY W. BARONE, D. KEITH WILLIAMS, PHILIP BREEN, C. RYAN YATES, LESLIE B. STUART, MARTHA A. HUBBARD, YUDONG TONG, AND SREEKHAR CHEBOYINA ............ 240

Mechanism-Based Inactivation of Human Cytochrome P450 Enzymes and the Prediction of Drug-Drug Interactions. R. SCOTT OBACH, ROBERT L. WALKSKY, AND KARTHIK VENKATAKRISHNAN ...... 246

Effects of Alterations in CAR on Bilirubin Detoxification in Mouse Collagen-Induced Arthritis. ATSUSHI KAWASE, YOSI TAKAHASHI, AND MASAYOSHI IWAICHI .......... 256

Recirculatory Pharmacokinetic Model of the Uptake, Distribution, and Bioavailability of Prochlorperazine Administered as a Thermally Generated

Continued on next page
Effects of Pomegranate Juice on Human Cytochrome P450 2C9 and Tolbutamide Pharmacokinetics in Rats. Masashi Nagata, Muneaki Hidaka, Hiroshi Sekiya, Yohei Kawano, Keishi Yamasaki, Manabu Okumura, and Kazuhiro Arimori ........ 302


The Relationship between PON1 Phenotype and PON1-192 Genotype in Detoxification of Three Oxons by Human Liver. Elaine Mutch, Ann K. Daly, and Faith M. Williams ........... 315

ACCELERATED COMMUNICATION

Mode of Administration-Dependent Brain Uptake of Indomethacin: Sustained Systemic Input Increases Brain Influx. Arik Dahan and Amnon Hoffman ............................... 321

S] Supplemental material is available online at http://dmd.aspetjournals.org.

About the cover: The relationship between DDI magnitude, $[I/K_1]$, and $k_{\text{deg}}/k_{\text{inact}}$ for P450 enzymes. See the article by Obach et al. on page 246 of this issue.