## CONTENTS

### COMMENTARY

When Is It Important to Measure Unbound Drug in Evaluating Nanomedicine Pharmacokinetics?. Stephan T. Stern, Marilyn N. Martinez, and David M. Stevens ............................... 1934

### MINIREVIEW

Cytochrome P450 Organization and Function Are Modulated by Endoplasmic Reticulum Phospholipid Heterogeneity. Lauren M. Brignac-Huber, Ji Won Park, James R. Reed, and Wayne L. Backes ................. 1859

### ARTICLES

Development of an Ecofriendly Anticoagulant Rodenticide Based on the Stereochemistry of Difenacoum. Marlène Damin-Pernik, Bernadette Espana, Stéphane Besse, Isabelle Fourel, Hervé Caruel, Florence Popowycz, Etienne Benoit, and Virginie Lattard .......... 1872


Establishment and Characterization of a Novel Caco-2 Subclone with a Similar Low Expression Level of Human Carboxylesterase 1 to Human Small Intestine. Kayoko Ohara, Hikaru Nishiyama, Saori Saco, Keisuke Kurokawa, and Teruko Imai ........................................ 1890

Roles of Human CYP2A6 and Monkey CYP2A24 and 2A26 Cytochrome P450 Enzymes in the Oxidation of 2,5,2′,5′-Tetrachlorobiphenyl. Tsutomu Shimada, Kensaku Kakimoto, Shigeo Takenaka, Nobuyuki Koga, Shotaro Uehara, Norie Murayama, Hiroshi Yamauchi, Donghak Kim, F. Peter Guengerich, and Masayuki Konori ........................................... 1899


Pharmacokinetics and Differential Regulation of Cytochrome P450 Enzymes in Type 1 Allergic Mice. Tadatoshi Tanino, Akira Komada, Koji Ueda, Toru Bando, Yukie Nojiri, Yukari Ueda, and Etichi Sakurai ..................................................... 1950

Tramadol Metabolism to O-Desmethyl Tramadol (M1) and N-Desmethyl Tramadol (M2) by Dog Liver Microsomes: Species Comparison and Identification of Responsible Canine Cytochrome P450s. Tania E. Perez, Katrina L. Mealey, Tamara L. Grubb, Stephen A. Greene, and Michael H. Court ......................................................... 1963

Continued on next page
SHORT COMMUNICATIONS

A Rare UGT2B7 Variant Creates a Novel N-Glycosylation Site at Codon 121 with Impaired Enzyme Activity. Camille Girard-Bock, Marie-Odile Benoit-Biancamano, Lyne Villeneuve, Sylvie Desjardins, and Chantal Guillemette........... 1867


ERRATUM

Correction to “Trimethylamine and Trimethylamine N-Oxide, a Flavin-Containing Monooxygenase 3 (FMO3)-Mediated Host-Microbiome Metabolic Axis Implicated in Health and Disease”........... 1949

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

About the cover: Representative low magnification (A) and high magnification (B) confocal reconstructions of hepatocyte microtissue morphology in a LiverChip scaffold after seven days of culture stained for f-actin (green) and Hoechst (blue). See the article by Long et al. (dx.doi.org/10.1124/dmd.116.071456).