

DRUG METABOLISM AND DISPOSITION

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

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- 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**

- Brain Distribution and Efficacy of the Brain Penetrant PI3K Inhibitor GDC-0084 in Orthotopic Mouse Models of Human Glioblastoma. *Laurent Salphati, Bruno Aliche, Timothy P. Heffron, Sheerin Shahidi-Latham, Merry Nishimura, Tim Cao, Richard A. Carano, Jonathan Cheong, Joan Greve, Hartmut Koeppen, Shari Lau, Leslie B. Lee, Michelle Nannini-Pepe, Jodie Pang, Emile G. Plise, Cristine Quiason, Linda Rangell, Xiaolin Zhang, Stephen E. Gould, Heidi S. Phillips, and Alan G. Olivero* **1881**

- Establishment and Characterization of a Novel Caco-2 Subclone with a Similar Low Expression Level of Human Carboxylesterase 1 to Human Small Intestine. *Kayoko Ohura, 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 Yamazaki, Donghak Kim, F. Peter Guengerich, and Masayuki Komori* **1899**

- Evaluation of the Interplay between Uptake Transport and CYP3A4 Induction in Micropatterned Cocultured Hepatocytes. *Amanda Moore, Paresh P. Chothe, Hong Tsao, and Nireesh Hariparsad* **1910**

- Abundance of Drug Transporters in the Human Kidney Cortex as Quantified by Quantitative Targeted Proteomics. *Bhagwat Prasad, Katherine Johnson, Sarah Billington, Caroline Lee, Git W. Chung, Colin D.A. Brown, Edward J. Kelly, Jonathan Himmelfarb, and Jashvant D. Unadkat* **1920**

- Investigation of Endogenous Compounds Applicable to Drug-Drug Interaction Studies Involving the Renal Organic Anion Transporters, OAT1 and OAT3, in Humans. *Yuri Tsuruya, Koji Kato, Yamato Sano, Yuichiro Imamura, Kazuya Maeda, Yuji Kumagai, Yuichi Sugiyama, and Hiroyuki Kusuhara* **1925**

- Modeling Therapeutic Antibody-Small Molecule Drug-Drug Interactions Using a Three-Dimensional Perfusible Human Liver Coculture Platform. *Thomas J. Long, Patrick A. Cosgrove, Robert T. Dunn, II, Donna B. Stolz, Hisham Hamadeh, Cynthia Afshari, Helen McBride, and Linda G. Griffith* **1940**

- Pharmacokinetics and Differential Regulation of Cytochrome P450 Enzymes in Type 1 Allergic Mice. *Tadatashi Tanino, Akira Komada, Koji Ueda, Toru Bando, Yukie Nojiri, Yukari Ueda, and Eiichi 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**

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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*

Antibody Drug Conjugates Differentiate Uptake and DNA Alkylation of Pyrrolobenzodiazepines in Tumors from Organs of Xenograft Mice. *Yong Ma, S. Cyrus Khojasteh, Cornelis E.C.A. Hop,*

Hans K. Erickson, Andrew Polson, Thomas H. Pillow, Shang-Fan Yu, Hong Wang, Peter S. Dragovich, and Donglu Zhang 1958

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](https://doi.org/10.1124/dmd.116.071456)).