A Publication of the American Society for Pharmacology and Experimental Therapeutics

October 2020 Vol. 48, No. 10

## **CONTENTS**

SPECIAL SECTION ON NATURAL PRODUCTS: EXPERIMENT APPROACHES TO ELUCIDATE DISPOSITION MECHANISMS AND PREDICT PHARMACOKINETIC DRUG INTERACTIONS	S	Michael J. Espiritu, Justin Chen, Jaydeep Yadav, Michael Larkin, Robert D. Pelletier, Jeannine M. Chan, Jeevan B. GC, Senthil Natesan, and		
Natural Products: Experimental Approaches to Elucidate Disposition Mechanisms and Predict Pharmacokinetic Drug Interactions. <i>Mary F. Paine</i>	956	John P. Harrelson	1028	Download
National Center for Complementary and Integrative Health Perspectives on Clinical Research Involving Natural Products. <i>Wendy J. Weber and D. Craig Hopp</i>	963	ine in Vitro and in Rats and Associated Herb-Drug Interaction. Yue Li, Juan Li, Dongmin Yan, Qian Wang, Jingyi Jin, Bo Tan, and Furong Qiu	1044	led from dn
Multidrug Resistance–Associated Protein 3 Is Responsible for the Efflux Transport of Curcumin Glucuronide from Hepatocytes to the Blood. Yu-Meng Jia, Ting Zhu, Huan Zhou, Jin-Zi Ji, Ting Tai, and Hong-Guang Xie	966	Centella asiatica Water Extract Shows Low Potential for Cytochrome P450–Mediated Drug Interactions. Kirsten M. Wright, Armando Alcazar Magana, Ronald M. Laethem, Caroline L. Moseley, Troy T. Banks, Claudia S. Maier, Jan F. Stevens, Joseph F. Quinn, and Amala	4050	Downloaded from dmd.aspetjournals.org at ASPET Journals on April 10, 2024
The Effects of Traditional Chinese Medicine on P-Glycoprotein–Mediated Multidrug Resistance and Approaches for Studying the Herb–P-Glycoprotein Interactions. <i>Yuhong Cao, Yiwei Shi, Ying Cai, Zhanying Hong, and Yifeng Chai</i>	972	Soumyanath	1033	at ASPET Journ
In Vitro Human Cell–Based Experimental Models for the Evaluation of Enteric Metabolism and Drug Interaction Potential of Drugs and Natural Products. Albert P. Li	980		1064	als on April 1
Natural Products as Modulators of CES1 Activity.  Yuli Qian, and John S. Markowitz	993			0, 2024
Predicting the Potential for Cannabinoids to Precipitate Pharmacokinetic Drug Interactions via Reversible Inhibition or Inactivation of Major Cytochromes		in the Heart. Yingchun Chen, Cui Li, Yaodong Yi, Weijuan Du, Huidi Jiang, Su Zeng, and Hui Zhou	1074	
P450. Sumit Bansal, Neha Maharao, Mary F. Paine, and Jashvant D. Unadkat	1008	Application of Cryopreserved Human Intestinal Mu- cosa and Cryopreserved Human Enterocytes in the Evaluation of Herb-Drug Interactions: Evaluation		
Modulation of Major Human Liver Microsomal Cytochromes P450 by Component Alkaloids of Goldenseal: Time-Dependent Inhibition and Allosteric Effects. <i>Matthew G. McDonald, Dan-Dan Tian, Kenneth E. Thummel, Mary F. Paine, and Allan E. Rettie.</i>	1018	of CYP3A Inhibitory Potential of Grapefruit Juice and Commercial Formulations of Twenty-Nine Herbal Supplements. Carol Loretz, Ming-Chih David Ho, Novera Alam, Walter Mitchell, and Albert P. Li	1084	
Mechanisms of Herb-Drug Interactions Involving Cinnamon and CYP2A6: Focus on Time-Dependent Inhibition by Cinnamaldehyde and 2-Methoxycinnamaldehyde.		Multiomics Profiling Reveals Protective Function of Schisandra Lignans against Acetaminophen-In- duced Hepatotoxicity. Caixia Yan, Huimin Guo, Qingqing Ding, Yuhao Shao, Dian Kang, Tengjie		

Yu, Changjian Li, Haoran Huang, Yisha Du, He Wang, Kangrui Hu, Lin Xie, Guangji Wang, and Yan Liang		S Preclinical Transplacental Transfer and Pharmaco- kinetics of Fipronil in Rats. Ya-Ning Chang and Tung-Hu Tsai	886
S A New Data Repository for Pharmacokinetic Natural Product-Drug Interactions: From Chemical Characterization to Clinical Studies. Caroline Birer-Williams, Brandon T. Gufford, Eric Chou, Marijanel Alilio, Sidney VanAlstine, Rachael		Seeking Nonspecific Binding: Assessing the Reliability of Tissue Dilutions for Calculating Fraction Unbound. William J. Jusko, Emilie A.G. Molins, and Vivaswath S. Ayyar	894
E. Morley, Jeannine S. McCune, Mary F. Paine, and Richard D. Boyce		Quantification of the Impact of Partition Coefficient Prediction Methods on Physiologically Based Pharmacokinetic Model Output Using a Standardized Tissue Composition. <i>Kiersten Utsey</i> ,	
ARTICLES		Madeleine S. Gastonguay, Sean Russell, Reed	
S Detection of Weak Organic Anion-Transporting Polypeptide 1B Inhibition by Probenecid with Plasma-Based Coproporphyrin in Humans. Yueping Zhang,		Freling, Matthew M. Riggs, and Ahmed Elmokadem	903
Vinay K. Holenarsipur, Hamza Kandoussi, Jianing Zeng, T. Thanga Mariappan, Michael Sinz, and Hong Shen	l	A Study of the Effect of Cyclosporine on Fevipiprant Pharmacokinetics and its Absolute Bioavailability Using an Intravenous Microdose Approach. H. Markus Weiss, Ken-Ichi Umehara, Veit J.	
S Application of the Extended Clearance Classification System (ECCS) in Drug Discovery and Development: Selection of Appropriate In Vitro Tools and Clearance Prediction. <i>Kenichi</i>		Erpenbeck, Meredith Cain, Janardhana Vemula, Walid Elbast, and Markus Zollinger	917
Umehara, Carina Cantrill, Matthias Beat Wittwer, Elisa Di Lenarda, Florian Klammers, Aynur Ekiciler, Neil Parrott, Stephen Fowler, and Mohammed Ullah		S Quantification of Neonatal Fc Receptor and Beta-2 Microglobulin in Human Liver Tissues by Ultra- performance Liquid Chromatography–Multiple Reaction Monitoring–based Targeted Quantita- tive Proteomics for Applications in Biotherapeu-	
S Comparison of In Vitro to In Vivo Extrapolation Approaches for Predicting Transporter-Mediated		tic Physiologically-based Pharmacokinetic Models. <i>Xiazi Qiu, and Michael Zhuo Wang</i>	925
Hepatic Uptake Clearance Using Suspended Rat Hepatocytes. Na Li, Akshay Badrinarayanan, Xingwen Li, John Roberts, Mike Hayashi, Manpreet Virk, and Anshul Gupta		S Prediction of Human Disproportionate and Biliary Excreted Metabolites Using Chimeric Mice with Humanized Liver. Suguru Kato, Abhi Shah, Mihaela Plesescu, Yoshinari Miyata, Jayaprakasam Bolleddula, Swapan Chowdhury,	
Absorption, Distribution, Metabolism, and Excretion of Capmatinib (INC280) in Healthy Male Volunteers		and Xiaochun Zhu	934
and In Vitro Aldehyde Oxidase Phenotyping of the Major Metabolite. Ulrike Glaenzel, Yi Jin, Regine Hansen, Kirsten Schroer, Gholamreza Rahmanzadeh, Ulrike Pfaar, Jan Jaap van Lier, Hubert Borell, Axel Meissner, Gian Camenisch,		S Human Amyloid-β <sub>40</sub> Kinetics after Intravenous and Intracerebroventricular Injections and Calcitriol Treatment in Rats In Vivo. H. Benson Peng, Keumhan Noh, Sophie R. Pan, Victor Saldivia, Sylvia Serson, Anja Toscan, Inés A.M. de Lannoy,	044
and Sylvia Zhao	. 8/3	and K. Sandy Pang	944

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

About the cover: Illustration conveying a central database capturing the natural products, models, methods, and initiatives presented in this special issue. Image created and with permission by Sabrina M. Judson.