CONTENTS

CENTENNIAL PERSPECTIVE
The Development of Drug Metabolism Research as 
Expressed in the Publications of ASPET: Part 2, 

SHORT COMMUNICATIONS
The Contributions of Cytochromes P450 3A4 and 
3A5 to the Metabolism of the Phosphodiesterase 
Type 5 Inhibitors Sildenafil, Udenafil, and 
Vardenafil. Hei-Young Ku, Hee-Jeong Ahn, 
Kyung-Ah Seo, Hyumi Kim, Myung Kyoung Oh, 
So Kyung Bae, Jae-Gook Shin, Ji-Hong Shin, 
and Kwang-Hyeon Liu .......................... 986

Aldo-Keto Reductase 1C2 Fails to Metabolize 
Doxorubicin and Daunorubicin in Vitro. Ryan 
H. Takahashi, Onkar S. Bains, Tom A. Pfeifer, 
Thomas A. Grigliatti, Ronald E. Reid, and 
K. Wayne Rigggs ............................. 991

ARTICLES
Quantitative Investigation of the Role of Breast Can-
cer Resistance Protein (Berp/Abcg2) in Limiting 
Brain and Testis Penetration of Xenobiotic Com-
ounds. Junichi Enokizono, Hiroyuki Kusuhara, 
Atsushi Ose, Alfred H. Schinkel, and Yuichi 
Sugiyama ........................................ 995

Identification of Human Liver Cytochrome P450 Iso-
forms Involved in Autoinduced Metabolism of the 
Antiangiogenic Agent (Z)-5-[(1,2-Dihydro-2-
oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-
1H-pyrole-3-propanic Acid (TSU-68). Ryuichi 
Kitamura, Hisae Asanoma, Sekio Nagayama, and 
Masaki Otogiri ................................. 1003

Identification and Characterization of Potent CYP2B6 
Inhibitors in Woohwangcheongsimwon Suspen-
sion, an Herbal Preparation Used in the Treatment 
and Prevention of Apoplexy in Korea and 
China. Hyumi Kim, Kwon-Bok Kim, Hei-Young 
Ku, Soo Jin Park, Hoon Choi, Joon-Kwan Moon, 
 Byeong-So Park, Jeong-Han Kim, Sung 
Su Yea, Choong-Hwan Lee, Hye Suk Lee, Jae-Gook 
Shin, and Kwang-Hyeon Liu .................. 1010

Comparison of the Bioactivation Potential of the Antidepressant and Hepatotoxin Nefazodone with 
Aripiprazole, a Structural Analog and Marketed 
Drug. Jonathan N. Bauman, Kosea S. Frederick, 
Aarti Sawant, Robert L. Walsky, Loretta M. Cox, 
Ronald S. Obach, and Amit S. Kalgutkar ....... 1016

Hepatic Uptake and Excretion of (−)-N-(2-[(R)-3-
(6,7-Dimethoxy-1,2,3,4-tetrahydroisouquinoline-
2-carbonyl)piperidino]ethyl)-4-fluorobenzamide 
(YM758), a Novel If Channel Inhibitor, in Rats 
and Humans. Ken-ichi Umehara, Megumi Iwai, 
Yasuhiro Adachi, Takafumi Iwatsubo, Takashi 
Usui, and Hidetaka Kamimura ................. 1030

Characterization of Cytochrome P450 Protein Expres-
sion along the Entire Length of the Intestine of 
Male and Female Rats. Doreen Hariparsad, 
Andrewe Reichel, Gert Fricker, and Ursula Moen-
ning .............................................. 1039

Comparison of Immortalized Fa2N-4 Cells and Hu-
man Hepatocytes as in Vitro Models for Cyto-
chrome P450 Induction. Naries Hariparsad, 
Brian A. Carr, Raymond Evers, and Xiaoyan 
Chu .............................................. 1046

The “Albumin Effect” and Drug Glucuronidation: 
Bovine Serum Albumin and Fatty Acid-Free Hu-
man Serum Albumin Enhance the Glucuronida-
tion of UDP-Glucuronosyltransferase (UGT)

Continued on next page