HIGHLIGHTED PAPERS

JPET MINISERIES: MITOCHONDRIA
Mitochondrial Function and Dysfunction: An Update
Robert E. Davis and Michael Williams

Oxidative Shielding or Oxidative Stress?
Robert K. Naviaux

Mitochondrial Dysfunction in Neurodegenerative Diseases
Ashu Johri and M. Flint Beal

Transgenic Mouse Models Resistant to Diet-Induced Metabolic Disease: Is Energy Balance the Key?
Laura A. A. Gilliam and P. Darrell Neufer

Warburg Revisited: Regulation of Mitochondrial Metabolism by Voltage-Dependent Anion Channels in Cancer Cells
Eduardo N. Maldonado and John J. Lemasters

BEHAVIORAL PHARMACOLOGY
The Serotonin 2C Receptor Antagonist SB 242084 Exhibits Abuse-Related Effects Typical of Stimulants in Squirrel Monkeys
Daniel F. Manvich, Heather L. Kimmel, Debra A. Cooper, and Leonard L. Howell

δ-Opioid Mechanisms for ADL5747 and ADL5859 Effects in Mice: Analgesia, Locomotion, and Receptor Internalization
Chihiro Nozaki, Bertrand Le Bourdonnec, David Reiss, Rolf T. Windh, Patrick J. Little, Roland E. Dolle, Brigitte L. Kieffer, and Claire Gavériaux-Ruff

Apparent Inverse Relationship between Cannabinoid Agonist Efficacy and Tolerance/Cross-Tolerance Produced by Δ9-Tetrahydrocannabinol Treatment in Rhesus Monkeys
Lenka Hruba, Brett C. Ginsburg, and Lance R. McMahon

CARDIOVASCULAR
Activation of AMP-Activated Protein Kinase Inhibits the Proliferation of Human Endothelial Cells
Kelly J. Peyton, Xiao-ming Liu, Yajie Yu, Benjamin Yates, and William Durante

CELLULAR AND MOLECULAR
Morphine Withdrawal Activates Hypothalamic-Pituitary-Adrenal Axis and Heat Shock Protein 27 in the Left Ventricle: The Role of Extracellular Signal-Regulated Kinase
E. Martínez-Laorden, M. A. Hurle, M. V. Milanés, M. L. Laorden, and P. Almela

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE
Durable Pharmacological Responses from the Peptide ShK-186, a Specific Kv1.3 Channel Inhibitor That Suppresses T Cell Mediators of Autoimmune Disease
An Ex Vivo Perfusion System Emulating In Vivo Conditions in Noncirrhotic and Cirrhotic Human Liver

Thomas Schreiter, Guido Marquitan, Malin Darnell, Jan-Peter Sowa, Martina Bröcker-Preuss, Tommy B. Andersson, Hideo A. Baba, Marcus Furch, Gavin E. Arteel, Zoltan Matthé, Jürgen Treckmann, Guido Gerken, Robert K. Gieseler, and Ali Canbay

Pharmacokinetic/Pharmacodynamic Model of the Testosterone Effects of Triptorelin Administered in Sustained Release Formulations in Patients with Prostate Cancer

Elba Romero, Nieves Vélez de Mendizabal, Josep-Maria Cendrós, Concepción Peraire, Emma Bascompta, Rosendo Obach, and Iñaki F. Troconiz

Vaccination with Platelet-Derived Growth Factor B Kinoids Inhibits CCl4-Induced Hepatic Fibrosis in Mice

Zhi-Ming Hao, Xiao-Bao Fan, Shuang Li, Yi-Fei Lv, Hou-Qiang Su, Hui-Ping Jiang, and Hong-Hong Li

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Production and Actions of the Anandamide Metabolite Prostamide E2 in the Renal Medulla

Joseph K. Ritter, Cao Li, Min Xia, Justin L. Poklis, Aron H. Lichtman, Rehab A. Abdullah, William L. Dewey, and Pin-Lan Li

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

Nodakenin Suppresses Lipopolysaccharide-Induced Inflammatory Responses in Macrophage Cells by Inhibiting Tumor Necrosis Factor Receptor-Associated Factor 6 and Nuclear Factor-κB Pathways and Protects Mice from Lethal Endotoxin Shock

Hong-Kun Rim, Woong Cho, Sang Hyun Sung, and Kyung-Tae Lee

Glucocorticosteroids and β2-Adrenoceptor Agonists Synergize to Inhibit Airway Smooth Muscle Remodeling

Bart G. J. Dekkers, Adnan Pehlic, Raissa Mariani, I. Sophie T. Bos, Herman Meurs, and Johan Zaugsmaja

Soluble Glucan Is Internalized and Trafficked to the Golgi Apparatus in Macrophages via a Clathrin-Mediated, Lipid Raft-Regulated Mechanism

Tammy R. Ozmert, Matthew P. Goldman, John H. Kalbfleisch, and David L. Williams

15-Deoxy-Δ12,14-Prostaglandin J2-Glycerol, a Putative Metabolite of 2-Arachidonyl Glycerol and a Peroxisome Proliferator-Activated Receptor γ Ligand, Modulates Nuclear Factor of Activated T Cells

Priyadarshini Raman, Barbara L. F. Kaplan, and Norbert E. Kaminski

Vidofludimus Inhibits Colonic Interleukin-17 and Improves Hapten-Induced Colitis in Rats by a Unique Dual Mode of Action

Leo R. Fitzpatrick, Jeffrey S. Small, Robert Dobhiöfer, and Aldo Ammendola

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

Hormonal and Chemical Regulation of Paraoxonases in Mice

Xingguo Cheng and Curtis D. Klaassen

Intestinal Transport of Aminopterin Enantiomers in Dogs and Humans with Psoriasis Is Stereoselective: Evidence for a Mechanism Involving the Proton-Coupled Folate Transporter

Alan Menter, Breck Thrash, Christina Cherian, Larry H. Matherly, Lei Wang, Aleem Gangjee, Joel R. Morgan, Dean Y. Maeda, Aaron D. Schuler, Stuart J. Kahn, and John A. Zebala

Bioenergetic Effects of Mitochondrial-Targeted Coenzyme Q Analogs in Endothelial Cells


Quantification of Hepatic UDP Glucuronosyltransferase 1A1 Splice Variant Expression and Correlation of UDP Glucuronosyltransferase 1A1 Variant Expression with Glucuronidation Activity

Nathan R. Jones, Dongxiao Sun, Willard M. Freeman, and Philip Lazarus

Phenanthrene Metabolism in Smokers: Use of a Two-Step Diagnostic Plot Approach to Identify Subjects with Extensive Metabolic Activation

Jing Wang, Yan Zhong, Steven G. Carmella, J. Bradley Hochalter, Diane Rauch, Andrew Oliver, Joni Jensen, Dorothy K. Hatsukami, Pramod Upadhyaya, Stephen S. Hecht, and Cheryl L. Zimmerman

NEUROPHARMACOLOGY

The Antinociceptive Effects of Nicotinic Partial Agonists Varenicline and Sazetidine-A in Murine Acute and Tonic Pain Models

Shakir D. AlSharari, F. Ivy Carroll, J. Michael McIntosh, and M. Imad Damaj
Differences in Early Acetaminophen Hepatotoxicity between Obese ob/ob and db/db Mice

Jacinthe Aubert, Karima Begriche, Matthieu Delannoy, Isabelle Morel, Julie Pujaud, Catherine Ribault, Sylvie Lepage, Mitchell R. McGill, Catherine Lucas-Clerc, Bruno Turlin, Marie-Anne Robin, Hartmut Jaeschke, and Bernard Fromenty

NOTICE OF WITHDRAWAL

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About the cover: Mitochondrial cell death pathways: necrosis and apoptosis. See the article by Davis and Williams on page 598.