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
Asha 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. Milanes, 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, Zoltán Mathé, 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 Zaagsma

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, Alem 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 1A 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