The Journal of PHARMACOLOGY
And Experimental Therapeutics
A Publication of the American Society for Pharmacology and Experimental Therapeutics

September 2012 Vol. 342, No. 3

Contents

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. Milánés, 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
TOXICOLOGY

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

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

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