The Journal of

PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2016 Vol. 358, No. 1

Contents

MINIREVIEW

New Insight into the Dietary Cause of Atherosclerosis: Implications for Pharmacology
Reynold Spector

103

BEHAVIORAL PHARMACOLOGY

The Rapidly Acting Antidepressant Ketamine and the mGlu2/3 Receptor Antagonist LY341495 Rapidly Engage Dopaminergic Mood Circuits

71

Blockade of Cocaine or \(\sigma\) Receptor Agonist Self Administration by Subtype-Selective \(\sigma\) Receptor Antagonists

109

CARDIOVASCULAR

Vascular and Central Activation of Peroxisome Proliferator–Activated Receptor-\(\beta\) Attenuates Angiotensin II–Induced Hypertension: Role of RGS-5
Miguel Romero, Rosario Jiménez, Marta Toral, Elvira León-Gómez, Manuel Gómez-Guízar, Manuel Sánchez, María José Zarzuelo, Isabel Rodríguez-Gómez, Geraldine Rath, Juan Tamargo, Francisco Pérez-Vizcaino, Chantal Dessy, and Juan Duarte

151

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

Preferential Delivery of an Opioid Antagonist to the Fetal Brain in Pregnant Mice
John Oberdick, Yonghua Ling, Mitch A. Phelps, Max S. Yudovich, Karl Schilling, and Wolfgang Sadee

22

Robust Translation of \(\gamma\)-Secretase Modulator Pharmacology across Preclinical Species and Human Subjects

125

The \(\gamma\)-Secretase Modulator, BMS-932481, Modulates \(\alpha\beta\) Peptides in the Plasma and Cerebrospinal Fluid of Healthy Volunteers

138

ENDOCRINE AND DIABETES

Interaction of the Sodium/Glucose Cotransporter (SGLT) 2 Inhibitor Canagliflozin with SGLT1 and SGLT2: Inhibition Kinetics, Sidedness of Action, and Transporter-Associated Incorporation Accounting for its Pharmacodynamic and Pharmacokinetic Features
Ryuichi Ohgaki, Ling Wei, Kazunori Yamada, Taiki Hara, Chiaki Kuriyama, Suguru Okuda, Kiichiro Ueta, Masaharu Shiotani, Shushi Nagamori, and Yoshikatsu Kanai

94
Nuclear Factor Erythroid 2–Related Factor 2 Deficiency Results in Amplification of the Liver Fat-Lowering Effect of Estrogen

Wenjuan Rui, Yuhong Zou, Joonyong Lee, Shashank Manohar Nambiar, Jingmei Lin, Linjie Zhang, Yan Yang, and Guoli Dai

Protective Action of Anandamide and Its COX-2 Metabolite against t-Homocysteine-Induced NLRP3 Inflammasome Activation and Injury in Podocytes

Guangbi Li, Min Xia, Justine M. Abais, Krishna Boini, Pin-Lan Li, and Joseph K. Ritter

Berberine Decreased Inducible Nitric Oxide Synthase mRNA Stability through Negative Regulation of Human Antigen R in Lipopolysaccharide-Induced Macrophages

Ji-Sun Shin, Hye-Eun Choi, SeungHwan Seo, Jung-Hye Choi, Nam-In Baek, and Kyung-Tae Lee

Physiological Content and Intrinsic Activities of 10 Cytochrome P450 Isoforms in Human Normal Liver Microsomes

Hai-Feng Zhang, Huan-Huan Wang, Na Gao, Jun-Ying Wei, Xin Tian, Yan Zhao, Yan Fang, Jun Zhou, Qiang Wen, Jie Gao, Yang-Jun Zhang, Xiao-Hong Qian, and Hai-Ling Qiao

Ethanol Tolerance Affects Endogenous Adenosine Signaling in Mouse Hippocampus

Dali Zhang, Wei Xiong, Michael F. Jackson, and Fiona E. Parkinson

Endogenous 5-HT2C Receptors Phosphorylate the cAMP Response Element Binding Protein via Protein Kinase C-Promoted Activation of Extracellular-Regulated Kinases-1/2 in Hypothalamic mHypoA-2/10 Cells

Lisa Lauffer, Evi Glas, Thomas Gudermann, and Andreas Breit

Reactive Oxygen Species Differentially Regulate Bone Turnover in an Age-Specific Manner in Catalase Transgenic Female Mice


Correction to “1-[5-(2-Fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl]-N-methylmethanamine Monofumarate (TAK-438), a Novel and Potent Potassium-Competitive Acid Blocker for the Treatment of Acid-Related Diseases.”

Supplemental material is available at jpet.aspetjournals.org.

About the cover: Representative 3D reconstructed images from microCT scans of both 6 week and 14 week old WT and TgCAT mice. See the article by Alund et al. (dx.doi.org/10.1124/jpet.116.233213).