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

May 2014 Vol. 349, No. 2

Contents

HIGHLIGHTED PAPERS

BEHAVIORAL PHARMACOLOGY
Activation of α4β2*/α6β2* Nicotinic Receptors Alleviates Anxiety during Nicotine Withdrawal Without Upregulating Nicotinic Receptors
Nicole L. Yohn, Jill R. Turner, and Julie A. Blendy

CARDIOVASCULAR
Tonic Inhibition by G Protein–Coupled Receptor Kinase 2 of Akt/Endothelial Nitric-Oxide Synthase Signaling in Human Vascular Endothelial Cells under Conditions of Hyperglycemia with High Insulin Levels
Kumiko Taguchi, Kimimasa Sakata, Wakana Ohashi, Takahiro Imaižumi, Joji Imura, and Yuichi Hattori

CELLULAR AND MOLECULAR
Silibinin Induces Cell Death through Reactive Oxygen Species–Dependent Downregulation of Notch-1/ERK/Akt Signaling in Human Breast Cancer Cells
Thae Hyun Kim, Jae Suk Woo, Yong Keun Kim, and Ki Hyung Kim

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE
Clinical and Preclinical Characterization of the Histamine H4 Receptor Antagonist JNJ-39758979
Robin L. Thurmond, Bin Chen, Paul J. Dunford, Andrew J. Greenspan, Lars Karlsson, David La, Peter Ward, and Xie L. Xu

Novel Curcumin Derivative CNB-001 Mitigates Obesity-Associated Insulin Resistance
Evgeniy Panchinskii, Yinan Hua, Paul A. Lapchak, Elena Topchiy, Teresa E. Lehmann, Jun Ren, and Sreejayan Nair

2-Isoxazol-3-Phenyltropane Derivatives of Cocaine: Molecular and Atypical System Effects at the Dopamine Transporter
Takato Hiranita, Derek S. Wilkinson, Weimin C. Hong, Mu-Fa Zou, Theresa A. Kopajtic, Paul L. Soto, Carl R. Lupica, Amy H. Newman, and Jonathan L. Katz

A Novel Aminotetralin-Type Serotonin (5-HT)2C Receptor-Specific Agonist and 5-HT2A Competitive Antagonist/5-HT2B Inverse Agonist with Preclinical Efficacy for Psychoses
Clinton E. Canal, Drake Morgan, Daniel Felsing, Krishnakanth Kondabolu, Neil E. Rowland, Kimberly L. Robertson, Rajeev Sakhuja, and Raymond G. Booth

Discovery of Novel Second Mitochondria-Derived Activator of Caspase Mimetics as Selective Inhibitor of Apoptosis Protein Inhibitors
Jin Wang and Wei Li

Follistatin: A Novel Therapeutic for the Improvement of Muscle Regeneration

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL
Tolvaptan Delays the Onset of End-Stage Renal Disease in a Polycystic Kidney Disease Model by Suppressing Increases in Kidney Volume and Renal Injury
Miki Aihara, Hiroyuki Fujiki, Hiroshi Mizuguchi, Katsushi Hattori, Koji Ohmoto, Makoto Ishikawa, Keisuke Nagano, and Yoshihiko Yamamura
Generation and Activity of a Humanized Monoclonal Antibody That Selectively Neutralizes the Epidermal Growth Factor Receptor Ligands Transforming Growth Factor-α and Epiregulin

Catherine B. Beidler, Ramona J. Petrovan, Elaine M. Conner, Jeffrey S. Boyles, Derek D. Yang, Shannon M. Harlan, Shaoyou Chu, Bernice Ellis, Amita Datta-Mannan, Robert L. Johnson, Anja Stauber, Derrick R. Witcher, Matthew D. Breyer, and Josef G. Heuer

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

Antifibrotic and Anti-inflammatory Activity of the Tyrosine Kinase Inhibitor Nintedanib in Experimental Models of Lung Fibrosis

Lutz Wollin, Isabelle Maillet, Valérie Quesniaux, Alexander Holweg, and Bernhard Ryffel

Arginase Inhibition Prevents Inflammation and Remodeling in a Guinea Pig Model of Chronic Obstructive Pulmonary Disease


Pseudomonas aeruginosa Mannose-Sensitive Hemagglutinin Promotes T-Cell Response via Toll-Like Receptor 4–Mediated Dendritic Cells to Slow Tumor Progression in Mice

Min Zhang, Feifei Luo, Yafei Zhang, Luman Wang, Wei Lin, Mengxuan Yang, Dali Hu, Xiaofeng Wu, and Yiwei Chu

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

A Targeted Proteomics Approach for Profiling Murine Cytochrome P450 Expression

Elisabeth M. Hersman and Namandje N. Bumpus

NEUROPHARMACOLOGY

Intermittent Cocaine Self-Administration Produces Sensitization of Stimulant Effects at the Dopamine Transporter

Erin S. Calipari, Mark J. Ferris, Cody A. Siciliano, Benjamin A. Zimmer, and Sara R. Jones

Casein Kinase II Inhibition Reverses Pain Hypersensitivity and Potentiates Spinal N-Methyl-D-aspartate Receptor Activity Caused by Calcineurin Inhibitor

Yi-Min Hu, Shao-Rui Chen, Hong Chen, and Hui-Lin Pan

5-Hydroxytryptamine–Mediated Neurotransmission Modulates Spontaneous and Vagal-Evoked Glutamate Release in the Nucleus of the Solitary Tract Effect of Uptake Blockade

Patrick S. Hosford, Steve W. Mifflin, and Andrew G. Ramage

TOXICOLOGY

Trovafloxacin Potentiation of Lipopolysaccharide-Induced Tumor Necrosis Factor Release from RAW 264.7 Cells Requires Extracellular Signal-Regulated Kinase and c-Jun N-Terminal Kinase

Kyle L. Poulsen, Ryan P. Albee, Patricia E. Ganey, and Robert A. Roth

NOTICES OF RETRACTION

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

About the cover: RTI-336 and RTI-371 modulate the conformation of DAT in a similar manner. See the article by Hiranita et al. (dx.doi.org/10.1124/jpet.113.212738).