July 2014 Vol. 350, No. 1

Contents

HIGHLIGHTED PAPERS

COMMENTARY

Therapeutic Efficacy of a H₄ Receptor Antagonist in Humans: A Milestone in Histamine Research
Roland Seifert
The article associated with this Commentary can be found on page 181.

BEHAVIORAL PHARMACOLOGY

Effects of Pharmacologic Dopamine β-Hydroxylase Inhibition on Cocaine-Induced Reinstatement and Dopamine Neurochemistry in Squirrel Monkeys
Debra A. Cooper, Heather L. Kimmel, Daniel F. Manvich, Karl T. Schmidt, David Weinshenker, and Leonard L. Howell
Potent Inhibition of Alcohol Self-Administration in Alcohol-Preferring Rats by a κ-Opioid Receptor Antagonist
John R. Cashman and Marc R. Azar

CARDIOVASCULAR

Ramipril Protects the Endothelium from High Glucose–Induced Dysfunction through CaMKKβ/AMPK and Heme Oxygenase-1 Activation
Shiliu Tian, Xinfa Ge, Ke Wu, Huabing Yang, and Yu Liu

CELLULAR AND MOLECULAR

Inhibition of Phosphatidylinositol 3-Kinase/AKT Signaling by NVP-BKM120 Promotes ABT-737–Induced Toxicity in a Caspase-Dependent Manner through Mitochondrial Dysfunction and DNA Damage Response in Established and Primary Cultured Glioblastoma Cells
Esther P. Jane, Daniel R. Premkumar, Alejandro Morales, Kimberly A. Foster, and Ian F. Pollack

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

SOMG-833, a Novel Selective c-MET Inhibitor, Blocks c-MET–Dependent Neoplastic Effects and Exerts Antitumor Activity
Hao-tian Zhang, Lu Wang, Jing Ai, Yi Chen, Chang-xi He, Yin-chun Ji, Min Huang, Jing-yu Yang, Ao Zhang, Jian Ding, and Mei-yu Geng

Pharmacology of a Central Nervous System Delivered 2’-O-Methoxyethyl–Modified Survival of Motor Neuron Splicing Oligonucleotide in Mice and Nonhuman Primates
Frank Rigo, Seung J. Chun, Daniel A. Norris, Gene Hung, Sam Lee, John Matson, Robert A. Fey, Hans Gaus, Yimin Hua, John S. Grundy, Adrian R. Krainer, Scott P. Henry, and C. Frank Bennett

Semisynthetic Bile Acid FXR and TGR5 Agonists: Physicochemical Properties, Pharmacokinetics, and Metabolism in the Rat
Aldo Roda, Roberto Pellicciari, Antimo Gioiello, Flavia Neri, Cecilia Camborata, Daniela Passeri, Francesca De Franco, Silvia Spinozzi, Carolina Colliva, Luciano Adorini, Marco Montagnani, and Rita Aldini
GSK356278, a Potent, Selective, Brain-Penetrant Phosphodiesterase 4 Inhibitor That Demonstrates Anxiolytic and Cognition-Enhancing Effects without Inducing Side Effects in Preclinical Species

A. Richard Rutter, Alessandro Poffe, Palmina Cavallini, T. Gregg Davis, Jessica Schneck, Michele Negri, Elena Vicentini, Dino Montanari, Roberto Arban, Frank A. Gray, Ceri H. Davies, and Paul B. Wren

The Histamine H4 Receptor Antagonist, JNJ 39758979, Is Effective in Reducing Histamine-Induced Pruritus in a Randomized Clinical Study in Healthy Subjects

Alexa Kollmeier, Klaus Francke, Bin Chen, Paul J. Dunford, Andrew J. Greenspan, Yichuan Xia, Xie L. Xu, Bei Zhou, and Robin L. Thurmond

The Commentary associated with this article can be found on page 2.

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Novel Orally Available Salvinorin A Analog PR-38 Inhibits Gastrointestinal Motility and Reduces Abdominal Pain in Mouse Models Mimicking Irritable Bowel Syndrome


Ameliorative Effect of Mepenzolate Bromide against Pulmonary Fibrosis

Shota Kurotsu, Ken-ichiro Tanaka, Tomomi Niino, Teita Asano, Toshifumi Sugizaki, Arata Azuma, Hidekazu Suzuki, and Tohru Mizushima

Hypercontractility of Intestinal Longitudinal Smooth Muscle Induced by Cytokines Is Mediated by the Nuclear Factor-κB/AMP-Activated Kinase/Myosin Light Chain Kinase Pathway

Ancy D. Nalli, Divya P. Kumar, Sunila Mahavadi, Othman Al-Shboul, Reem Alkahtani, John F. Kuemmerle, John R. Grider, and Karnam S. Murthy

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

Role of microRNAs in Resveratrol-Mediated Mitigation of Colitis-Associated Tumorigenesis in ApcMin/+ Mice

Ibrahim Altamemi, E. Angela Murphy, James F. Catroppro, Elizabeth E. Zumbrun, Jiajia Zhang, Jamie L. McClellan, Udai P. Singh, Prakash S. Nagarkatti, and Mitzi Nagarkatti

NEUROPHARMACOLOGY

Structure of the LINGO-1–Anti-LINGO-1 Li81 Antibody Complex Provides Insights into the Biology of LINGO-1 and the Mechanism of Action of the Antibody Therapy

R. Blake Pepinsky, Joseph W. Arndt, Chao Quan, Yan Gao, Omar Quintero-Monzon, Xinhu Li, and Sha Mi

Ractopamine, a Livestock Feed Additive, Is a Full Agonist at Trace Amine–Associated Receptor 1

Xuehong Liu, David K. Grandy, and Aaron Janowsky

TOXICOLOGY

Macitentan Does Not Interfere with Hepatic Bile Salt Transport

Alexander Treiber, Páivi Ainismaa, Ruben de Kanter, Stephane Delahaye, Marianne Treher, Patrick Hess, and Patricia Sidharta

Trovafoxacin Enhances Lipopolysaccharide-Stimulated Production of Tumor Necrosis Factor-α by Macrophages: Role of the DNA Damage Response

Kyle L. Poulsen, Jesus Olivero-Verbel, Kevin M. Beggs, Patricia E. Ganey, and Robert A. Roth

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

About the cover: Possible assemblies of LINGO-1–Li81 Fab complex based on crystal symmetry. See the article by Pepinsky et al. (dx.doi.org/10.1124/jpet.113.211771).