The Journal of

PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2017 Vol. 362, No. 1

Contents

BEHAVIORAL PHARMACOLOGY

Receptor Effects of N-Substituted Benztropine Analogs: Implications for Antagonism of Cocaine Self-Administration

Takato Hiranita, Weimin C. Hong, Theresa Kopajtic, and Jonathan L. Katz

Relief of Pain-Depressed Behavior in Rats by Activation of D1-Like Dopamine Receptors

Matthew F. Lazenka, Kelen C. Freitas, Sydney Henck, and S. Stevens Negus

Preference for an Opioid/Benzodiazepine Mixture over an Opioid Alone Using a Concurrent Choice Procedure in Rhesus Monkeys

Peter F. Weed, Charles P. France, and Lisa R. Gerak

Effects of Acute and Chronic Treatments with Dopamine D2 and D3 Receptor Ligands on Cocaine versus Food Choice in Rats

Morgane Thomsen, Andrew C. Barrett, Paul Butler, S. Stevens Negus, and S. Barak Caine

Apparent CB1 Receptor Rimonabant Affinity Estimates: Combination with THC and Synthetic Cannabinoids in the Mouse In Vivo Triad Model


CARDIOVASCULAR

Treatment with Standard and Low Dose of Conjugated Equine Estrogen Differentially Modulates Estrogen Receptor Expression and Response to Angiotensin II in Mesenteric Venular Bed of Surgically Postmenopausal Hypertensive Rats

Priscila Xavier Araujo, Tiago Januário Costa, Cinthyia Echem, Maria Aparecida de Oliveira, Rosangela Aparecida Santos-Eichler, Lucas Giglio Colli, Francesc Jiménez-Altayó, Elisabet Vila, Eliana Hiromi Akamine, Ana Paula Dantas, Graziela Scalanti Ceravolo, and Maria Helena Catelli de Carvalho

Selexipag Active Metabolite ACT-333679 Displays Strong Anticontractile and Antiremodeling Effects but Low β-Arrestin Recruitment and Desensitization Potential

John Gatfield, Katalin Menyhért, Daniel Wanner, Carmela Gnerre, Lucile Monnier, Keith Morrison, Patrick Hess, Marc Iglarz, Martine Clozel, and Oliver Nayler

CELLULAR AND MOLECULAR

XE991 and Linopirdine Are State-Dependent Inhibitors for Kv7/KCNQ Channels that Favor Activated Single Subunits

Derek L Greene, Seungwoo Kang, and Naoto Hoshi

Regulation of δ Opioid Receptor-Mediated Signaling and Antinociception in Peripheral Sensory Neurons by Arachidonic Acid–Dependent 12/15-Lipoxygenase Metabolites

Laura C. Sullivan, Teresa A. Chavera, Xiaoli Gao, Miryam M. Pando, and Kelly A. Berg

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

Identification of 4-Aminopyrazolopyrimidine Metabolite That May Contribute to the Hypolipidemic Effects of LY2584702 in Long Evans Diet–Induced Obese Rats

Thomas B. Estridge, Asim B. Dey, Charles Reidy, Xiaohong Yu, Yue Zhang, Maryalice Hartley, Paul L. Milligan, Naijia Jin, Mark C. Kowala, Jennifer K. Leohr, Adrian J. Freeland, Thomas E. Mabry, Debra Luffer-Atlas, and M. Jane Luo

Rational Tuning of Visual Cycle Modulator Pharmacodynamics

Philip D. Kiser, Jianye Zhang, Mohsen Badiee, Junzo Kinoshita, Neal S. Peachey, Gregory P. Tochtrop, and Krzysztof Palczewski
ENDOCRINE AND DIABETES
The Dual Amylin- and Calcitonin-Receptor Agonist KBP-042 Works as Adjunct to Metformin on Fasting Hyperglycemia and HbA1c in a Rat Model of Type 2 Diabetes
Sara T. Hjuler, Sofie Gydesen, Kim V. Andreassen, Morten A. Karsdal, and Kim Henriksen

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL
Glutamatergic Mechanisms Involved in Bladder Overactivity and Pudendal Neuromodulation in Cats
Jamie Uy, Michelle Yu, Xuewen Jiang, Cameron Jones, Bing Shen, Jicheng Wang, James R. Roppolo, William C. de Groat, and Changfeng Tai

Mashiningan Improves Opioid-Induced Constipation in Rats by Activating Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel
Yumi Harada, Seiichi Iizuka, Yayoi Saegusa, Sachiko Mogami, Naoki Fujitsuka, and Tomohisa Hattori

NEUROPHARMACOLOGY
Pharmacological and Toxicological Properties of the Potent Oral γ-Secretase Modulator BPN-15606

Ethanol Reversal of Tolerance to the Antinociceptive Effects of Oxycodone and Hydrocodone
Joanna C. Jacob, Justin L. Poklis, Hamid I. Akbarali, Graeme Henderson, and William L. Dewey

Novel Phosphodiesterase 4 Inhibitor FCPR03 Alleviates Lipopolysaccharide-Induced Neuroinflammation by Regulation of the cAMP/PKA/CREB Signaling Pathway and NF-κB Inhibition

Glutaminyl Cyclase Inhibitor PQ912 Improves Cognition in Mouse Models of Alzheimer’s Disease—Studies on Relation to Effective Target Occupancy

Pharmacologic Characterization of AMG8379, a Potent and Selective Small Molecule Sulfonamide Antagonist of the Voltage-Gated Sodium Channel Na_v1.7

ERRATUM
Correction to “Antidepressant Potential of (R)-Ketamine in Rodent Models: Comparison with (S)-Ketamine”

Supplemental material is available at jpet.aspetjournals.org.

About the cover: Strategies for selective modulation of the retinoid cycle. See the article by Kiser et al (dx.doi.org/10.1124/jpet.117.240721).