

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2016

Vol. 356, No. 1

Contents

COMMENTARY

- Editor's Note 1
Kenneth D. Tew

MINIREVIEW

- Adverse Outcome Pathways—Organizing Toxicological Information to Improve Decision Making 170
Stephen W. Edwards, Yu-Mei Tan, Daniel L. Villeneuve, M. E. Meek, and Charlene A. McQueen

BEHAVIORAL PHARMACOLOGY

- Chronic Δ^9 -Tetrahydrocannabinol during Adolescence Differentially Modulates Striatal CB1 Receptor Expression and the Acute and Chronic Effects on Learning in Adult Rats 20
Peter F. Weed, Catalin M. Filipeanu, Myles J. Ketchum, and Peter J. Winsauer
- Effects of Acute and Repeated Administration of Oxycodone and Naloxone-Precipitated Withdrawal on Intracranial Self-Stimulation in Rats 43
Jason M. Wiebelhaus, D. Matthew Walentiny, and Patrick M. Beardsley
- Lorcaserin Reduces the Discriminative Stimulus and Reinforcing Effects of Cocaine in Rhesus Monkeys 85
Gregory T. Collins, Lisa R. Gerak, Martin A. Javors, and Charles P. France
- Morphine Tolerance and Physical Dependence Are Altered in Conditional HIV-1 Tat Transgenic Mice 96
Sylvia Fitting, David L. Stevens, Fayez A. Khan, Krista L. Scoggins, Rachel M. Enga, Patrick M. Beardsley, Pamela E. Knapp, William L. Dewey, and Kurt F. Hauser

CARDIOVASCULAR

- ▣ Involvement of Potassium Channels and Calcium-Independent Mechanisms in Hydrogen Sulfide-Induced Relaxation of Rat Mesenteric Small Arteries 53
Elise R. Hedegaard, Anja Goulliaev, Anna K. Winther, Daniel D. R. Arcanjo, Mathilde Aalling, Nirthika S. Renaltan, Mark E. Wood, Matthew Whiteman, Nini Skovgaard, and Ulf Simonsen
- Endothelial Nitric Oxide Mediates Caffeine Antagonism of Alcohol-Induced Cerebral Artery Constriction 106
Jennifer Chang, Alexander L. Fedinec, Guruprasad Kuntamallappanavar, Charles W. Leffler, Anna N. Bukiya, and Alex M. Dopico
- Andrographolide Ameliorates Abdominal Aortic Aneurysm Progression by Inhibiting Inflammatory Cell Infiltration through Downregulation of Cytokine and Integrin Expression 137
Jun Ren, Zhenjie Liu, Qiwei Wang, Jasmine Giles, Jason Greenberg, Nader Sheibani, K. Craig Kent, and Bo Liu
- Angiotensin II-Induced Hypertension Is Attenuated by Reduction of Sympathetic Output in NO-Sensitive Guanylyl Cyclase 1 Knockout Mice 191
Kathrin Broekmans, Johannes Stegbauer, Sebastian A. Potthoff, Michael Russwurm, Doris Koesling, and Evanthia Mergia

CELLULAR AND MOLECULAR

- Regulation of Extrasynaptic GABA_A $\alpha 4$ Receptors by Ethanol-Induced Protein Kinase A, but Not Protein Kinase C Activation in Cultured Rat Cerebral Cortical Neurons 148
Stephen L. Carlson, J. Peyton Bohnsack, Vraj Patel, and A. Leslie Morrow

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- DFL23448, A Novel Transient Receptor Potential Melastin 8–Selective Ion Channel Antagonist, Modifies Bladder Function and Reduces Bladder Overactivity in Awake Rats 200
Francesco A. Mistretta, Andrea Russo, Fabio Castiglione, Arianna Bettiga, Giorgia Colciago, Francesco Montorsi, Laura Brandolini, Andrea Aramini, Gianluca Bianchini, Marcello Allegretti, Silvia Bovolenta, Roberto Russo, Fabio Benigni, and Petter Hedlund
- ☐ New Multi-target Antagonists of α_{1A} -, α_{1D} -Adrenoceptors and 5-HT_{1A} Receptors Reduce Human Hyperplastic Prostate Cell Growth and the Increase of Intraurethral Pressure 212
Jéssica B. Nascimento-Viana, Aline R. Carvalho, Luiz Eurico Nasciutti, Rocío Alcántara-Hernández, Fernanda Chagas-Silva, Pedro A. R. Souza, Luiz Antonio S. Romeiro, J. Adolfo García-Sáinz, François Noël, and Claudia Lucia Martins Silva
- Pharmacologic Characterization of AMG 334, a Potent and Selective Human Monoclonal Antibody against the Calcitonin Gene-Related Peptide Receptor 223
Licheng Shi, Sonya G. Lehto, Dawn X. D. Zhu, Hong Sun, Jianhua Zhang, Brian P. Smith, David C. Immke, Kenneth D. Wild, and Cen Xu

ENDOCRINE AND DIABETES

- Mitigation of Insulin Resistance by Mangiferin in a Rat Model of Fructose-Induced Metabolic Syndrome Is Associated with Modulation of CD36 Redistribution in the Skeletal Muscle 74
Liang Zhou, Yongquan Pan, Ritsu Chonan, Robert Batey, Xianglu Rong, Johji Yamahara, Jianwei Wang, and Yuhao Li

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- ☐ Novel Epidermal Growth Factor Receptor Inhibitor Attenuates Angiotensin II–Induced Kidney Fibrosis 32
Yuanyuan Qian, Kesong Peng, Chenyu Qiu, Melissa Skibba, Yi Huang, Zheng Xu, Yali Zhang, Jie Hu, Dandan Liang, Chunpeng Zou, Yi Wang, and Guang Liang
- Encenicline, an $\alpha 7$ Nicotinic Acetylcholine Receptor Partial Agonist, Reduces Immune Cell Infiltration in the Colon and Improves Experimental Colitis in Mice 157
M. Salaga, L. V. Blomster, A. Piechota-Polańczyk, M. Zielińska, D. Jacenik, A. I. Cygankiewicz, W. M. Krajewska, J. D. Mikkelsen, and Jakub Fichna

NEUROPHARMACOLOGY

- Paeoniflorin Promotes Non-rapid Eye Movement Sleep via Adenosine A₁ Receptors 64
Chang-Rui Chen, Yu Sun, Yan-Jia Luo, Xin Zhao, Jiang-Fan Chen, Yuchio Yanagawa, Wei-Min Qu, and Zhi-Li Huang
- A₁ Adenosine Receptor–Mediated Inhibition of Parasympathetic Neuromuscular Transmission in Human and Murine Urinary Bladder 116
Timothy J. Searl, Danuta I. Dynda, Shaheen R. Alanee, Ahmed M. El-Zawahry, Kevin T. McVary, and Eugene M. Silinsky
- ☐ VU0477573: Partial Negative Allosteric Modulator of the Subtype 5 Metabotropic Glutamate Receptor with In Vivo Efficacy 123
Hilary Highfield Nickols, Joannes P. Yuh, Karen J. Gregory, Ryan D. Morrison, Brittney S. Bates, Shaun R. Stauffer, Kyle A. Emmitte, Michael Bubser, Weimin Peng, Michael T. Nedelcovych, Analisa Thompson, Xiaohui Lv, Zixiu Xiang, J. Scott Daniels, Colleen M. Niswender, Craig W. Lindsley, Carrie K. Jones, and P. Jeffrey Conn
- ☐ Abuse-Related Neurochemical Effects of *Para*-Substituted Methcathinone Analogs in Rats: Microdialysis Studies of Nucleus Accumbens Dopamine and Serotonin 182
Julie A. Suyama, Farhana Sakloth, Renata Kolanos, Richard A. Glennon, Matthew F. Lazenka, S. Stevens Negus, and Matthew L. Banks

TOXICOLOGY

- Methylmercury-Dependent Increases in Fluo4 Fluorescence in Neonatal Rat Cerebellar Slices Depend on Granule Cell Migrational Stage and GABA_A Receptor Modulation 2
Aaron B. Bradford, Jayme D. Mancini, and William D. Atchison
- Pharmacological Characterization of the Edema Caused by *Vitalius dubius* (Theraphosidae, Mygalomorphae) Spider Venom in Rats 13
Thomaz A. A. Rocha-e-Silva, Alessandra Linardi, Edson Antunes, and Stephen Hyslop

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