

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2019

Vol. 368, No. 1

Contents

MINIREVIEWS

- Is There Sufficient Evidence that the Melatonin Binding Site MT_3 Is Quinone Reductase 2? 59
Jean A. Boutin and Gilles Ferry

BEHAVIORAL PHARMACOLOGY

- The 5-HT_{2A} Receptor (5-HT_{2A}R) Regulates Impulsive Action and Cocaine Cue Reactivity in Male Sprague-Dawley Rats 41
Dennis J. Sholler, Sonja J. Stutz, Robert G. Fox, Edward L. Boone, Qin Wang, Kenner C. Rice, F. Gerard Moeller, Noelle C. Anastasio, and Kathryn A. Cunningham
- Long-Lasting Effects of Methocinnamox on Opioid Self-Administration in Rhesus Monkeys 88
David R. Maguire, Lisa R. Gerak, James H. Woods, Stephen M. Husbands, Alex Disney, and Charles P. France

CARDIOVASCULAR

- ▣ Inhibition of Advanced Glycation End Products Formation Attenuates Cardiac Electrical and Mechanical Remodeling and Vulnerability to Tachyarrhythmias in Diabetic Rats 66
Gwo-Jyh Chang, Yung-Hsin Yeh, Wei-Jan Chen, Yu-Shien Ko, Jong-Hwei S. Pang, and Hsiao-Yu Lee

CELLULAR AND MOLECULAR

- Pharmacological Inhibition of the Temperature-Sensitive and Ca²⁺-Permeable Transient Receptor Potential Vanilloid TRPV3 Channel by Natural Forsythoside B Attenuates Pruritus and Cytotoxicity of Keratinocytes 21
Heng Zhang, Xiaoying Sun, Hang Qi, Qingxia Ma, Qiqi Zhou, Wei Wang, and KeWei Wang
- Etomidate Effects on Desensitization and Deactivation of $\alpha 4\beta 3\delta$ GABA_A Receptors Inducibly Expressed in HEK293 TetR Cells 100
Yiwei Liao, Xiang Liu, Youssef Jounaidi, Stuart A. Forman, and Hua-Jun Feng

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- A Monoclonal Antibody against 6-Acetylmorphine Protects Female Mice Offspring from Adverse Behavioral Effects Induced by Prenatal Heroin Exposure 106
Anne Marte Sjørnsen Kvello, Jannike Mørch Andersen, Elisabeth Leere Øiestad, Synne Steinsland, Audun Aase, Jørg Mørland, and Inger Lise Bogen

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- A Comparison of the Central versus Peripheral Gastrointestinal Prokinetic Activity of Two Novel Ghrelin Mimetics 116
Ehsan N. Mohammadi, Claudio Pietra, Claudio Giuliano, Li Fugang, and Beverley Greenwood-Van Meerveld

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

- Trypanosoma cruzi* Neurotrophic Factor Facilitates Cardiac Repair in a Mouse Model of Chronic Chagas Disease 11
Tamar Ledoux, Daniel Aridgides, Ryan Salvador, Njabulo Ngwenyama, Smaro Panagiotidou, Pilar Alcaide, Robert M Blanton, and Mercio A Perrin

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

- ▣ Suppression of Canine ATP Binding Cassette ABCB1 in Madin-Darby Canine Kidney Type II Cells Unmasks Human ABCG2-Mediated Efflux of Olaparib 79
Yoo-Kyung Song, Ji Eun Park, Yunseok Oh, Sungwoo Hyung, Yoo-Seong Jeong, Min-Soo Kim, Woojin Lee, and Suk-Jae Chung

[S]	Comprehensive Evaluation of the Utility of 20 Endogenous Molecules as Biomarkers of OATP1B Inhibition Compared with Rosuvastatin and Coproporphyrin I <i>Shelby Barnett, Kayode Ogungbenro, Karelle Ménochet, Hong Shen, W. Griffith Humphreys, and Aleksandra Galetin</i>	125
	Evidence for the Validity of Pyridoxic Acid (PDA) as a Plasma-Based Endogenous Probe for OAT1 and OAT3 Function in Healthy Subjects <i>Hong Shen, Vinay K. Holenarsipur, T. Thanga Mariappan, Dieter M. Drexler, Joseph L. Cantone, Prabhakar Rajanna, Shashyendra Singh Gautam, Yueping Zhang, Jinping Gan, Petia A. Shipkova, Punit Marathe, and W. Griffith Humphreys</i>	136
 NEUROPHARMACOLOGY		
	Methyleugenol Potentiates Central Amygdala GABAergic Inhibition and Reduces Anxiety <i>Yan-Mei Liu, Hui-Ran Fan, Shining Deng, Tailin Zhu, Yuhua Yan, Wei-Hong Ge, Wei-Guang Li, and Fei Li</i>	1
[S]	Plasma and Brain Concentrations of Doxycycline after Single and Repeated Doses in Wild-Type and APP23 Mice <i>Jacopo Lucchetti, Claudia Fracasso, Claudia Balducci, Alice Passoni, Gianluigi Forloni, Mario Salmons, and Marco Gobbi</i>	32
[S]	Prostanoid EP4 Receptor-Mediated Augmentation of I_h Currents in A β Dorsal Root Ganglion Neurons Underlies Neuropathic Pain <i>Hao Zhang, Toshihide Kashihara, Tsutomu Nakada, Satoshi Tanaka, Kumiko Ishida, Satoshi Fuseya, Hiroyuki Kawagishi, Kenkichi Kiyosawa, Mikito Kawamata, and Mitsuhiko Yamada</i>	50

[S] Supplemental material is available at jpet.aspetjournals.org.

About the cover: sPDNF reduces cardiac fibrosis and progression of atrioventricular block in a mouse model of chronic Chagas cardiomyopathy. See the article by Ledoux et al (<https://dx.doi.org/10.1124/jpet.118.251900>).