

The Journal of  
**PHARMACOLOGY**  
**And Experimental Therapeutics**

A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2020

Vol. 372, No. 1

## Contents

### COMMENTARY

- New Author Guidelines for Displaying Data and Reporting Data Analysis and Statistical Methods in Experimental Biology 136  
*Martin C. Michel, T.J. Murphy, and Harvey J. Motulsky*

### MINIREVIEWS

- A Compendium of the Biological Effects of Apolipoprotein A-I<sub>Milano</sub> 54  
*Cinzia Parolini*

### BEHAVIORAL PHARMACOLOGY

- The Novel CYP2A6 Inhibitor, DLCI-1, Decreases Nicotine Self-Administration in Mice 21  
*Yen-Chu Chen, James P. Fowler, Jing Wang, Christy J. W. Watson, Yasmine Sherafat, Andres Staben, Philip Lazarus, Travis T. Denton, and Christie D. Fowler*

- § The Neuropeptide Y Y<sub>2</sub> Receptor Is Coexpressed with Nppb in Primary Afferent Neurons and Y<sub>2</sub> Activation Reduces Histaminergic and IL-31-Induced Itch 73  
*Haisha Ma, Tianle Gao, Jon E.T. Jakobsson, Hannah M. Weman, Bo Xu, Dan Larhammar, and Malin C. Lagerström*

- Cannabinoid Antagonist Drug Discrimination in Nonhuman Primates 119  
*Brian D. Kangas, Ani S. Zakarian, Kiran Vemuri, Shakiru O. Alapafuja, Shan Jiang, Spyros P. Nikas, Alexandros Makriyannis, and Jack Bergman*

- Inhibiting MicroRNA-29a Protects Myocardial Ischemia-Reperfusion Injury by Targeting SIRT1 and Suppressing Oxidative Stress and NLRP3-Mediated Pyroptosis Pathway 128  
*Shoukun Ding, Donghai Liu, Lixia Wang, Guanggong Wang, and Yaobin Zhu*

### CARDIOVASCULAR

- § Complex Effects of Putative DRP-1 Inhibitors on Stress Responses in Mouse Heart and Rat Cardiomyoblasts 95  
*Lauren Wendt, Jelena Vider, Louise E. See Hoe, Eugene Du Toit, Jason N. Peart, and John P. Headrick*

### DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- The Positive Allosteric Modulator of α2/3-Containing GABA<sub>A</sub> Receptors, KRM-II-81, Is Active in Pharmaco-Resistant Models of Epilepsy and Reduces Hyperexcitability after Traumatic Brain Injury 83  
*Jeffrey M. Witkin, Guanguan Li, Lalit K. Golani, Wenhui Xiong, Jodi L. Smith, Xingjie Ping, Farjana Rashid, Rajwana Jahan, Rok Cerne, James M. Cook, and Xiaoming Jin*

- Biological Characterization of F508delCFTR Protein Processing by the CFTR Corrector ABBV-2222/GLPG2222 107  
*Ashvani K. Singh, Yihong Fan, Corina Balut, Sara Alani, Arlene M. Manelli, Andrew M. Swensen, Ying Jia, Torben R. Neelands, Timothy A. Vortherms, Bo Liu, Xenia B. Searle, Xueqing Wang, Wenqing Gao, Tzyh-Chang Hwang, Hong Y. Ren, Douglas Cyr, Philip R. Kym, Katja Conrath, and Chris Tse*

### GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

- Activation of Prejunctional P2x2/3 Heterotrimers by ATP Enhances the Cholinergic Tone in Obstructed Human Urinary Bladders 63  
*M. Silva-Ramos, I. Silva, M. Faria, F. Ferreira, and P. Correia-de-Sá*

## METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

- [S] Sampling Site Has a Critical Impact on Physiologically Based Pharmacokinetic Modeling 30  
*Weize Huang, and Nina Isoherranen*

- Plasma Membrane Cholesterol Regulates the Allosteric Binding of 1-Methyl-4-Phenylpyridinium to Organic Cation Transporter 2 (SLC22A2) 46  
*Severin Hörmann, Zhibo Gai, Gerd A. Kullak-Ublick, and Michele Visentin*

## NEUROPHARMACOLOGY

- Pharmacological Profile of the Novel Antiepileptic Drug Candidate Padsevonil: Interactions with Synaptic Vesicle 2 Proteins and the GABA<sub>A</sub> Receptor 1  
*Martyn Wood, Veronique Daniels, Laurent Provins, Christian Wolff, Rafal M. Kaminski, and Michel Gillard*

- Pharmacological Profile of the Novel Antiepileptic Drug Candidate Padsevonil: Characterization in Rodent Seizure and Epilepsy Models 11  
*Karine Leclercq, Alain Matagne, Laurent Provins, Henrik Klitgaard, and Rafal M. Kaminski*

[S] Supplemental material is available at [jpet.aspetjournals.org](http://jpet.aspetjournals.org).

*About the cover:* Npy2r primary afferent neurons express itch-associated genes. See the article by Ma et al ([dx.doi.org/10.1124/jpet.119.262584](https://dx.doi.org/10.1124/jpet.119.262584)).