The Journal of Pharmacology and Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

March 2022 Vol. 380, No. 3

Contents

BEHAVIORAL PHARMACOLOGY

Characterization of the Discriminative Stimulus Effects of Binary Mixtures of Mu Opioid Receptor Agonists in Rats
Discriminating Fentanyl
Shawn M. Flynn and Charles P. France 171

CELLULAR AND MOLECULAR

The Skeletal Muscle Relaxer Cyclobenzaprine Is a Potent Non-Competitive Antagonist of Histamine H1 Receptors
Kirti Singh, Ilya S. Senatorov, Ameneh Cheshmehkani, Priyanka F. Karmokar, and Nader H. Moniri 202

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

RTICBM-74 Is a Brain-Penetrant Cannabinoid Receptor Subtype 1 Allosteric Modulator that Reduces Alcohol Intake in Rats
Daniel Tis{é}, Micaela Reeves, Joshua Royal, Krystal T. Hamorsky, Hanna Ng, Maria Arolfo, Carol Green, Abhishek Trigunaite, Toufan Parman, Goo Lee, and Nobuyuki Matoba 153

The Andrographolide Analogue 3A.1 Synergizes with Taxane Derivatives in Aggressive Metastatic Prostate Cancers by Upregulation of Heat Shock Proteins and Downregulation of MAT2A-Mediated Cell Migration and Invasion

Etavopivat, a Pyruvate Kinase Activator in Red Blood Cells, for the Treatment of Sickle Cell Disease
Patricia Schroeder, Keertik Fulzele, Sanjeev Forsyth, Maria D. Ribadeneyra, Sylvie Guichard, Erik Wilker, C. Gary Marshall, Adam Drake, Rose Fessler, Diamantis G. Konstantinidis, Katie G. Seu, and Theodosia A. Kalfa 210

A Potent Inhibitor of Aminopeptidase P2 Reduces Reperfusion Injury in Models of Myocardial Infarction and Stroke
Morgan R. Lenz, Shih-Yen Tsai, Anne E. Roessler, Yang Wang, Persianam Sethupathi, W. Keith Jones, Gwendolyn L. Kartje, and William H. Simmons 220

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Empagliflozin Protects against Pulmonary Ischemia/Reperfusion Injury via an Extracellular Signal-Regulated Kinases 1 and 2-Dependent Mechanism
Dou Huang, Feng Ju, Lei Du, Ting Liu, Yunxia Zuo, Geoffrey W. Abbott, and Zhaoyang Hu 230

NEUROPHARMACOLOGY

The Dopamine D1 Receptor Positive Allosteric Modulator Mevidalen (LY3154207) Enhances Wakefulness in the Humanized D1 Mouse and in Sleep-Deprived Healthy Male Volunteers
Andrew P. McCarthy, Kjell A. Svensson, Elaine Shanks, Claire Brittain, Brian J. Eastwood, William Kielbasa, Kevin M. Biglan, and Keith A. Wafford 143

Supplemental material is available at jpet.aspetjournals.org.

About the cover: Differential gene expression profiling of 3A.1 single-agent and combination therapy. See the article by Ghosh et al. (dx.doi.org/10.1124/jpet.121.000898).