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

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

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

RTICBM-74 Is a Brain-Penetrant Cannabinoid Receptor Subtype 1 Allosteric Modulator that Reduces Alcohol Intake in Rats

Dennis F. Lovelock, Thuy Nguyen, Kalynn Van Voorhies, Yanan Zhang, and Joyce Besheer

Pharmacokinetics and Safety Studies in Rodent Models Support Development of EPICERTIN as a Novel Topical Wound-Healing Biologic for Ulcerative Colitis

Daniel Tusé, Micaela Reeves, Joshua Royal, Krystal T. Hamorsky, Hanna Ng, Maria Arolof, Carol Green, Abhishek Trigunaite, Toufan Parman, Goo Lee, and Nobuyuki Matoba

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, Keerikt 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

A Potent Inhibitor of Aminopeptidase P2 Reduces Reperfusion Injury in Models of Myocardial Infarction and Stroke

Morgan R. Lenz, Shih-Yen Tsai, Anne E. Roessle, Yang Wang, Persmann Sethupathi, W. Keith Jones, Gwendolyn L. Kartje, and William H. Simmons

GASTROINTESTINAL, HEPATIC, PULMONARY, AND RENAL

Empagliflozin Protects against Pulmonary Ischemia/Reperfusion Injury via an Extracellular Signal-Regulated Kinases 1 and 2-Dependent Mechanism

Don Huang, Feng Ju, Lei Du, Ting Liu, Yunxia Zuo, Geoffrey W. Abbott, and Zhaoyang Hu

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

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).