

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

May 2023

Vol. 385, No. 2

Contents

MINIREVIEW

- Alterations in Brain Neural Network and Stress System in Atopic Dermatitis: Novel Therapeutic Interventions 78
Yutaka Nakagawa and Shizuo Yamada

CARDIOVASCULAR

- ☐ The Anti-Inflammatory Effects and Clinical Potential of Dexmedetomidine in Pulmonary Arterial Hypertension 88
Yohei Yamaguchi, Susumu Hosokawa, Go Haraguchi, Yusuke Kajikawa, Makito Sakurai, Taku Ishii, Noboru Ando, Tomohiro Morio, Shozaburo Doi, and Tetsushi Furukawa

CHEMOTHERAPY, ANTIBIOTICS, AND GENE THERAPY

- ☐ Exploiting the Receptor-Binding Domains of R-Spondin 1 to Target Leucine-Rich Repeat-Containin G-Coupled Protein Receptor 5-Expressing Stem Cells in Ovarian Cancer 95
Clara Wong, Maria Carmen Mulero, Erika I. Barth, Katherine Wang, Xiyang Shang, Sanika Tikle, Catherine Rice, Dennis Gately, and Stephen B. Howell

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- ☐ Combining SOS1 and MEK Inhibitors in a Murine Model of Plexiform Neurofibroma Results in Tumor Shrinkage 106
Mark Jackson, Niousha Ahmari, Jianqiang Wu, Tilat A. Rizvi, Elizabeth Fugate, Mi-OK Kim, Eva Dombi, Heribert Arnhof, Guido Boehmelt, Matthias J. Düchs, Clive J. Long, Udo Maier, Francesca Trapani, Marco H. Hofmann, and Nancy Ratner
- ☐ Heroin- and Fentanyl-Induced Respiratory Depression in a Rat Plethysmography Model: Potency, Tolerance, and Sex Differences 117
Renata C.N. Marchette, Erika R. Carlson, Emma V. Frye, Lyndsay E. Hastings, Janaina C.M. Vendruscolo, Gustavo Mejias-Torres, Stephen J. Lewis, Aidan Hampson, Nora D. Volkow, Leandro F. Vendruscolo, and George F. Koob

METABOLISM, TRANSPORT, AND PHARMACOGENETICS

- Effects of Volatile Anesthetics versus Ketamine on Blood-Brain Barrier Permeability via Lipid-Mediated Alterations of Endothelial Cell Membranes 135
Behnam Noorani, Ekram Ahmed Chowdhury, Faleh Alqahtani, Yeseul Ahn, Ehsan Nozohouri, Sumaih Zoubi, Dhavalkumar Patel, Laurence Wood, Juyang Huang, Muhammad Bilal Siddique, Abraham Al-Ahmad, Reza Mehvar, and Ulrich Bickel

NEUROPHARMACOLOGY

- ☐ Ventral Tegmental Area M5 Muscarinic Receptors Mediate Effort-Choice Responding and Nucleus Accumbens Dopamine in a Sex-Specific Manner 146
Eric J. Nunes, Nardos Kebede, Joshua L. Haight, Daniel J. Foster, Craig W. Lindsley, P. Jeffrey Conn, and Nii A. Addy

ERRATUM

- Correction to “Protein Kinase A–Mediated Effects of Protein Kinase C Partial Agonist 5-(Hydroxymethyl)Isophthalate 1a3 in Colorectal Cancer Cells” 157

- ☐ Supplemental material is available at jpet.aspetjournals.org.

About the cover: Speculated signaling pathway in our study. See the article by Yamaguchi et al. ([dx.doi.org/10.1124/jpet.122.001399](https://doi.org/10.1124/jpet.122.001399)).