

The Journal of PHARMACOLOGY

And Experimental Therapeutics

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2019

Vol. 370, No. 1

Contents

MINIREVIEWS

- Cancer and the Dopamine D₂ Receptor: A Pharmacological Perspective 111
Jillian S. Weissenrieder, Jeffrey D. Neighbors, Richard B. Mailman, and Raymond J. Hohl

BEHAVIORAL PHARMACOLOGY

- Impact of Pharmacological Manipulation of the κ -Opioid Receptor System on Self-grooming and Anhedonic-like Behaviors in Male Mice 1
Eduardo R. Butelman, Bryan D. McElroy, Thomas E. Prisinzano, and Mary Jeanne Kreek
- ☐ In Utero Exposure to Norbuprenorphine, a Major Metabolite of Buprenorphine, Induces Fetal Opioid Dependence and Leads to Neonatal Opioid Withdrawal Syndrome 9
Bryce A. Griffin, Caitlin O. Caperton, Lauren N. Russell, Christian V. Cabanlong, Catheryn D. Wilson, Kyle R. Urquhart, Bradford S. Martins, Marcelle Dina Zita, Amy L. Patton, Alexander W. Alund, S. Michael Owens, William E. Fantegrossi, Jeffery H. Moran, and Lisa K. Brents

CARDIOVASCULAR

- Myeloid Cell mPges-1 Deletion Attenuates Mortality Without Affecting Remodeling After Acute Myocardial Infarction in Mice 18
Lihong Chen, Guangrui Yang, Tingting Jiang, Soon Yew Tang, Tao Wang, Qing Wan, Miao Wang, and Garret A. FitzGerald

CELLULAR AND MOLECULAR

- ☐ Effect of Adenylyl Cyclase Type 6 on Localized Production of cAMP by β -2 Adrenoceptors in Human Airway Smooth-Muscle Cells 104
Shailesh R. Agarwal, Chase Fiore, Kathryn Miyashiro, Rennolds S. Ostrom, and Robert D. Harvey

DRUG DISCOVERY AND TRANSLATIONAL MEDICINE

- ☐ The MitoNEET Ligand NL-1 Mediates Antileukemic Activity in Drug-Resistant B-Cell Acute Lymphoblastic Leukemia 25
Werner J. Geldenhuys, Rajesh R. Nair, Debbie Piktel, Karen H. Martin, and Laura F. Gibson
- ☐ The Dual Amylin and Calcitonin Receptor Agonist KBP-088 Induces Weight Loss and Improves Insulin Sensitivity Superior to Chronic Amylin Therapy 35
Anna Thorsø Larsen, Nina Sonne, Kim Vietz Andreassen, Kristoffer Gehring, Morten Asser Karsdal, and Kim Henriksen
- ☐ Therapeutic Monoclonal Antibody Antagonizing Endothelin Receptor A for Pulmonary Arterial Hypertension 54
Cheng Zhang, Xiaofeng Wang, Hua Zhang, Chenjiang Yao, Hao Pan, Yong Guo, Kesuo Fan, and Shuqian Jing
- Pharmacological Profile of AZD8871 (LAS191351), a Novel Inhaled Dual M₃ Receptor Antagonist/ β ₂-Adrenoceptor Agonist Molecule with Long-Lasting Effects and Favorable Safety Profile 127
Mónica Aparici, Carla Carcasona, Israel Ramos, José Luís Montero, Raquel Otal, José Luís Ortiz, Julio Cortijo, Carlos Puig, Dolors Vilella, Jorge De Alba, Chris Doe, Amadeu Gavalda, and Montserrat Miralpeix

INFLAMMATION, IMMUNOPHARMACOLOGY, AND ASTHMA

- ☐ Pregnane X Receptor Activation Triggers Rapid ATP Release in Primed Macrophages That Mediates NLRP3 Inflammasome Activation 44
Grace Hudson, Kyle L. Flannigan, Vivek Krishna Pulakazhi Venu, Laurie Alston, Christina F. Sandall, Justin A. MacDonald, Daniel A. Muruve, Thomas K.H. Chang, Sridhar Mani, and Simon A. Hirota

METABOLISM, TRANSPORT, AND PHARMACOGENOMICS

- ▣ Quantitative Contribution of Six Major Transporters to the Hepatic Uptake of Drugs: “SLC-Phenotyping” Using Primary Human Hepatocytes 72
Yi-an Bi, Chester Costales, Sumathy Mathialagan, Mark West, Soraya Eatemadpour, Sarah Lazzaro, Laurie Tylaska, Renato Scialis, Hui Zhang, John Umland, Emi Kimoto, David A. Tess, Bo Feng, Larry M. Tremaine, Manthena V. S. Varma, and A. David Rodrigues
- ▣ Treatment of γ -Hydroxybutyric Acid and γ -Butyrolactone Overdose with Two Potent Monocarboxylate Transporter 1 Inhibitors, AZD3965 and AR-C155858 84
Kristin E. Follman and Marilyn E. Morris
- ▣ Characterization of Vitamin A Metabolome in Human Livers With and Without Nonalcoholic Fatty Liver Disease 92
Guo Zhong, Jay Kirkwood, Kyoung-Jae Won, Natalie Tjota, Hyunyoung Jeong, and Nina Isoherranen

▣ Supplemental material is available at jpet.aspetjournals.org.

About the cover: Treatment with D2 antagonists affects many vital metabolic processes within cancer cells and tumors. See the article by Weissenrieder et al., ([dx.doi.org/10.1124/jpet.119.256818](https://doi.org/10.1124/jpet.119.256818)).