

# MOLECULAR PHARMACOLOGY

A Publication of the American Society for Pharmacology and Experimental Therapeutics

November 2024

Vol. 106, No. 5

## Contents

### MINIREVIEW

- Going Rogue: Mechanisms, Regulation, and Roles of Mutationally Activated G $\alpha$  in Human Cancer 198  
*Morgan B. Dwyer, Jenna L. Aumiller, and Philip B. Wedegaertner*

### ARTICLES

- Arachidonic Acid Directly Activates the Human DP2 Receptor 216  
*Michael Kurz, Michaela Ulrich, Sina B. Kirchhofer, Alwina Bittner, Michael Daude, Wibke E. Diederich, Kim Pauk, Holger Garn, and Moritz Bünemann*
- Simplified Method for Kinetic and Thermodynamic Screening of Cardiotonic Steroids through the K<sup>+</sup>-Dependent Phosphatase Activity of Na<sup>+</sup>/K<sup>+</sup>-ATPase with Chromogenic pNPP Substrate 225  
*Pedro Azalim-Neto, François Noël, Simone C. Silva, José A.F.P. Villar, Leandro Barbosa, George A. O'Doherty, and Luis Eduardo M. Quintas*
- Ketamine and Major Ketamine Metabolites Function as Allosteric Modulators of Opioid Receptors 240  
*Ivone Gomes, Achla Gupta, Elyssa B. Margolis, Lloyd D. Fricker, and Lakshmi A. Devi*
- Ghrelin Modulates Voltage-Gated Ca<sup>2+</sup> Channels through Voltage-Dependent and Voltage-Independent Pathways in Rat Gastric Vagal Afferent Neurons 253  
*Hannah J. Goudsward, Victor Ruiz-Velasco, Salvatore L. Stella, Jr., Paul B. Herold, and Gregory M. Holmes*
- Inhibitory Actions of Potentiating Neuroactive Steroids in the Human  $\alpha 1\beta 3\gamma 2L$   $\gamma$ -Aminobutyric Acid Type A Receptor 264  
*Spencer R. Pierce, Allison L. Germann, Douglas F. Covey, Alex S. Evers, Joe Henry Steinbach, and Gustav Akk*

Supplemental material is available online at [molpharm.aspetjournals.org](http://molpharm.aspetjournals.org).

About the cover: The G protein cycle is disrupted by constitutively active G $\alpha$ . See the article by Dwyer et al. ([dx.doi.org/10.1124/molpharm.124.000743](https://doi.org/10.1124/molpharm.124.000743)).