

MOLECULAR PHARMACOLOGY

June 2016

Volume 89

Number 6

molpharm.aspetjournals.org

ISSN 1521-0111

ACCELERATED COMMUNICATION

- Using Cryo-EM to Map Small Ligands on Dynamic Metabolic Enzymes: Studies with Glutamate Dehydrogenase
Mario J. Borgnia, Soojay Banerjee, Alan Merk, Doreen Matthies, Alberto Bartesaghi, Prashant Rao, Jason Pierson, Lesley A. Earl, Veronica Falconieri, Sriram Subramaniam, and Jacqueline L. S. Milne 645

ARTICLES

- Mechanisms of Biased β -Arrestin-Mediated Signaling Downstream from the Cannabinoid 1 Receptor
Francheska Delgado-Peraza, Kwang H. Ahn, Carlos Nogueras-Ortiz, Imran N. Mungrue, Ken Mackie, Debra A. Kendall, and Guillermo A. Yudowski 618
- Repurposing Treprostinil for Enhancing Hematopoietic Progenitor Cell Transplantation
Zahra Kazemi, Christian Bergmayr, Michaela Prchal-Murphy, Tahereh Javaheri, Madeleine Themanns, Ha T. T. Pham, Wolfgang Strohmaier, Veronika Sexl, Michael Freissmuth, and Eva Zebedin-Brandl 630
- Antagonism of Dopamine Receptor 2 Long Affects Cannabinoid Receptor 1 Signaling in a Cell Culture Model of Striatal Medium Spiny Projection Neurons
Amina M. Bagher, Robert B. Laprairie, Melanie E. M. Kelly, and Eileen M. Donovan-Wright 652
- Synthesis and Evaluation of Potent KCNQ2/3-Specific Channel Activators
Manoj Kumar, Nicholas Reed, Ruiting Liu, Elias Aizenman, Peter Wipf, and Thanos Tzounopoulos 667
- Substrate and Inhibitor Specificity of the *Plasmodium berghei* Equilibrative Nucleoside Transporter Type 1
Avish Arora, Roman Deniskin, Yvett Sosa, Sita Nirupama Nishtala, Philipp P. Henrich, T.R. Santha Kumar, David A. Fidock, and Myles H. Akabas 678
- Experimental Evaluation of Proposed Small-Molecule Inhibitors of Water Channel Aquaporin-1
Cristina Esteva-Font, Byung-Ju Jin, Sujin Lee, Puay-Wah Phuan, Marc O. Anderson, and A. S. Verkman 686
- Inhibition of GLI1 Expression by Targeting the CRD-BP–GLI1 mRNA Interaction Using a Specific Oligonucleotide
Kashif Mehmood, Daud Akhtar, Sebastian Mackedenski, Chuyi Wang, and Chow H. Lee 695

ERRATA

- Correction to: “Biased Type 1 Cannabinoid Receptor Signaling Influences Neuronal Viability in a Cell Culture Model of Huntington Disease” 694
- Correction to: “Inhibition of GLI1 Expression by Targeting the CRD-BP–GLI1 mRNA Interaction Using a Specific Oligonucleotide” 707

 Supplemental material is available online at <http://molpharm.aspetjournals.org>.

About the cover: Capturing protein dynamics with cryo-EM. Glutamate Dehydrogenase (GDH) bound to NADH displays two co-existing conformations as determined by cryo-EM imaging. NADH binds to GDH in both the open (left) and closed (right) conformations at regulatory (red) and catalytic (purple) sites.....See the article by Subramaniam et al. (dx.doi.org/10.1124/mol.116.103382).