

# MOLECULAR PHARMACOLOGY

August 2013

Volume 84

Number 2

molpharm.aspetjournals.org

ISSN 1521-0111

## ARTICLES

- Histone Deacetylase Inhibitors Interact with Melanoma Differentiation Associated-7/Interleukin-24 to Kill Primary Human Glioblastoma Cells  
*Hossein A. Hamed, Adly Yacoub, Margaret A. Park, Kellie Archer, Swadesh K. Das, Devanand Sarkar, Steven Grant, Paul B. Fisher, and Paul Dent* 171
- Organic Cation Transporter 1 (OCT1/mOct1) Is Localized in the Apical Membrane of Caco-2 Cell Monolayers and Enterocytes  
*Tianxiang (Kevin) Han, Ruth S. Everett, William R. Proctor, Chee M. Ng, Chester L. Costales, Kim L. R. Brouwer, and Dhiren R. Thakker* 182
- D<sub>1</sub>-D<sub>2</sub> Dopamine Receptor Synergy Promotes Calcium Signaling via Multiple Mechanisms  
*Lani S. Chun, R. Benjamin Free, Trevor B. Doyle, Xi-Ping Huang, Michele L. Rankin, and David R. Sibley* 190
- An Unusual Pattern of Ligand-Receptor Interactions for the  $\alpha 7$  Nicotinic Acetylcholine Receptor, with Implications for the Binding of Varenicline  
*Ethan B. Van Arnem, Emily E. Blythe, Henry A. Lester, and Dennis A. Dougherty* 201
- Molecular Insights into Microbial  $\beta$ -Glucuronidase Inhibition to Abrogate CPT-11 Toxicity  
*Adam B. Roberts, Bret D. Wallace, Madhu Kumar Venkatesh, Sridhar Mani, and Matthew R. Redinbo* 208
- Inflammatory Mediators Increase SUMOylation of Retinoid X Receptor  $\alpha$  in a c-Jun N-Terminal Kinase-Dependent Manner in Human Hepatocellular Carcinoma Cells  
*Rebecca Schneider Aguirre and Saul J. Karpen* 218
- Arginine Vasopressin Enhances Cell Survival via a G Protein-Coupled Receptor Kinase 2/ $\beta$ -Arrestin1/Extracellular-Regulated Kinase 1/2-Dependent Pathway in H9c2 Cells  
*Weizhong Zhu, Douglas G. Tilley, Valerie D. Myers, Ryan C. Coleman, and Arthur M. Feldman* 227
- Overexpression of Mcl-1 Confers Multidrug Resistance, Whereas Topoisomerase II $\beta$  Downregulation Introduces Mitoxantrone-Specific Drug Resistance in Acute Myeloid Leukemia  
*David L. Hermanson, Sonia G. Das, Yunfang Li, and Chengguo Xing* 236
- Early Life Stress Causes Refractoriness to Haloperidol-Induced Catalepsy  
*Jordan Marrocco, Jérôme Mairesse, Domenico Bucci, Luana Lionetto, Giuseppe Battaglia, Michol Consolazione, Laura Ravasi, Maurizio Simmaco, Sara Morley-Fletcher, Stefania Maccari, and Ferdinando Nicoletti* 244
- Ethanol Reversal of Cellular Tolerance to Morphine in Rat Locus Coeruleus Neurons  
*Javier Llorente, Sarah Withey, Guadalupe Rivero, Margaret Cunningham, Alex Cooke, Kunal Saxena, Jamie McPherson, Sue Oldfield, William L. Dewey, Chris P. Bailey, Eamonn Kelly, and Graeme Henderson* 252

<p> <span style="border: 1px solid black; padding: 0 2px;">S</span> The Neuroactive Steroid Pregnenolone Sulfate Stimulates Trafficking of Functional <i>N</i>-Methyl D-Aspartate Receptors to the Cell Surface via a Noncanonical, G Protein, and Ca<sup>2+</sup>-Dependent Mechanism  <i>Emmanuel Kostakis, Conor Smith, Ming-Kuei Jang, Stella C. Martin, Kyle G. Richards, Shelley J. Russek, Terrell T. Gibbs, and David H. Farb</i> </p>	261
<p>           Adiponectin Ameliorates Iron-Overload Cardiomyopathy through the PPAR<math>\alpha</math>-PGC-1-Dependent Signaling Pathway  <i>Heng Lin, Wei-Shiung Lian, Hsi-Hsien Chen, Pei-Fang Lai, and Ching-Feng Cheng</i> </p>	275
<p> <span style="border: 1px solid black; padding: 0 2px;">S</span> Indapamide Lowers Blood Pressure by Increasing Production of Epoxyeicosatrienoic Acids in the Kidney  <i>Fei Ma, Fan Lin, Chen Chen, Jennifer Cheng, Darryl C. Zeldin, Yan Wang, and Dao Wen Wang</i> </p>	286
<p>           Diacylglycerol Lipase<math>\alpha</math> (DAGL<math>\alpha</math>) and DAGL<math>\beta</math> Cooperatively Regulate the Production of 2-Arachidonoyl Glycerol in Autaptic Hippocampal Neurons  <i>Tarun Jain, Jim Wager-Miller, Ken Mackie, and Alex Straiker</i> </p>	296
<b>ERRATA</b>	
<p>Correction to Table of Contents in Volume 84, Number 1</p>	303
<p>Correction to “Discovery, Molecular and Pharmacological Characterization of GSA-10, a Novel Small-Molecule Positive Modulator of Smoothened”</p>	303

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

*About the cover:* Immunocytochemical localization of OCT1 (mOct1) in Caco-2 cell monolayers and in human and mouse intestinal tissues. See the article by Han et al. on page 182 of this issue.