

MOLECULAR PHARMACOLOGY

November 2014

Volume 86

Number 5

molpharm.aspetjournals.org

ISSN 1521-0111

SPECIAL SECTION ON HIGHLIGHTS FROM IUPHAR

- Advances in G Protein-Coupled Receptor Allostery: From Function to Structure
Arthur Christopoulos 463
- The Odd Sibling: Features of β_3 -Adrenoceptor Pharmacology
Hana Cernecka, Carsten Sand, and Martin C. Michel 479
- Analyses of CD20 Monoclonal Antibody-Mediated Tumor Cell Killing Mechanisms:
Rational Design of Dosing Strategies
Ronald P. Taylor and Margaret A. Lindorfer 485

ARTICLES

- Cooperative Signaling between Homodimers of Metabotropic Glutamate Receptors 1 and 5
Tatyana N. Sevastyanova and Paul J. Kammermeier 492
- ABCD2 Alters Peroxisome Proliferator-Activated Receptor α Signaling In Vitro, but Does Not Impair Responses to Fenofibrate Therapy in a Mouse Model of Diet-Induced Obesity
Xiaoxi Liu, Jingjing Liu, Shuang Liang, Agatha Schlüter, Stephane Fourcade, Stella Aslibekyan, Aurora Pujol, and Gregory A. Graf 505
- Clemizole Hydrochloride Is a Novel and Potent Inhibitor of Transient Receptor Potential Channel TRPC5
Julia M. Richter, Michael Schaefer, and Kerstin Hill 514
- Robust Hydrolysis of Prostaglandin Glycerol Esters by Human Monoacylglycerol Lipase (MAGL)
Juha R. Savinainen, Emilia Kansanen, Tatu Pantsar, Dina Navia-Paldanius, Teija Parkkari, Marko Lehtonen, Tuomo Laitinen, Tapio Nevalainen, Antti Poso, Anna-Liisa Levonen, and Jarmo T. Laitinen 522
- A Methylation-Based Regulatory Network for MicroRNA 320a in Chemoresistant Breast Cancer
Dong-Xu He, Xiao-Ting Gu, Li Jiang, Jian Jin, and Xin Ma 536
- Structural Determinants and Mechanism of Action of a GluN2C-selective NMDA Receptor Positive Allosteric Modulator
Alpa Khatri, Pieter B. Burger, Sharon A. Swanger, Kasper B. Hansen, Sommer Zimmerman, Erkan Karakas, Dennis C. Liotta, Hiro Furukawa, James P. Snyder, and Stephen F. Traynelis 548
- Reversible Epigenetic Regulation of 14-3-3 σ Expression in Acquired Gemcitabine Resistance by Uhrf1 and DNA Methyltransferase 1
Li Qin, Zizheng Dong, and Jian-Ting Zhang 561
- Activation of the Retinoid X Receptor Modulates Angiotensin II-Induced Smooth Muscle Gene Expression and Inflammation in Vascular Smooth Muscle Cells
Allison M.B. Lehman, John R. Montford, Henrick Horita, Allison C. Ostriker, Mary C.M. Weiser-Evans, Raphael A. Nemenoff, and Seth B. Furgeson 570

- Ⓢ Metformin Restores Intermediate-Conductance Calcium-Activated K_+ channel- and Small-Conductance Calcium-Activated K_+ channel-Mediated Vasodilatation Impaired by Advanced Glycation End Products in Rat Mesenteric Artery
Li-Mei Zhao, Yan Wang, Yong Yang, Rong Guo, Nan-Ping Wang, and Xiu-Ling Deng 580
- Ⓢ In Silico Identification of an Aryl Hydrocarbon Receptor Antagonist with Biological Activity In Vitro and In Vivo
Ashley J. Parks, Michael P. Pollastri, Mark E. Hahn, Elizabeth A. Stanford, Olga Novikov, Diana G. Franks, Sarah E. Haigh, Supraja Narasimhan, Trent D. Ashton, Timothy G. Hopper, Dmytro Kozakov, Dimitri Beglov, Sandor Vajda, Jennifer J. Schlezinger, and David H. Sherr 593

ERRATUM

- Correction to “The Kinetics of Competitive Radioligand Binding Predicted by the Law of Mass Action” 592

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

About the cover: Pharmacological characteristics of GPCR allostery. See the article by Christopoulos (dx.doi.org/10.1124/mol.114.094342).