MINIREVIEW

Agonists and Allosteric Modulators of the Calcium-Sensing Receptor and Their Therapeutic Applications

Zuzana Saidak, Michel Brazier, Saïd Kamel, and Romuald Mentaverri

1131

ACCELERATED COMMUNICATION

Control of Glutamate Receptor 2 (GluR2) Translational Initiation by Its Alternative 3’ Untranslated Regions

Hasan A. Irier, Yi Quan, Justin Yoo, and Raymond Dingledine

1145

ARTICLES

Regulation of Serotonin 1B Receptor by Glycogen Synthase Kinase-3

Ligong Chen, Gregory D. Salinas, and Xiaohua Li

1150

β-Arrestin-2 Interaction and Internalization of the Human P2Y1 Receptor Are Dependent on C-Terminal Phosphorylation Sites

Susanne Reiner, Nicole Ziegler, Catherine Leon, Kristina Lorenz, Kathrin von Hayn, Christian Gachet, Martin J. Lohse, and Carsten Hoffmann

1162


Sabine Depauw, Thomas Gaslonde, Stéphane Léonce, Laurence Kraus-Berthier, William Laine, Gaëlle Lenglet, Angèle Chiaroni, Bruno Pfeiffer, Christian Bailly, Sylvie Michel, François Tillequin, Alain Piérre, and Marie-Hélène David-Cordonnier

1172

Urotensin II Induces Rat Cardiomyocyte Hypertrophy via the Transient Oxidization of Src Homology 2-Containing Tyrosine Phosphatase and Transactivation of Epidermal Growth Factor Receptor


1186

Subtype-Specific Differences in Corticotropin-Releasing Factor Receptor Complexes Detected by Fluorescence Spectroscopy

Laura Milan-Lobo, Ingrid Gsandtner, Erwin Gaubitzer, Dominik Rünzler, Florian Buchmayer, Gottfried Köhler, Antonello Bonci, Michael Freissmuth, and Harald H. Sitte

1196
Position 5.46 of the Serotonin 5-HT$_{2A}$ Receptor Contributes to a Species-Dependent Variation for the 5-HT$_{2C}$ Agonist (R)-9-Ethyl-1,3,4,10b-tetrahydro-7-trifluoromethylpyrazino[2,1-a]isoindol-6(2H)-one: Impact on Selectivity and Toxicological Evaluation

Keith J. Miller, Ginger Y. Wu, Jeffrey G. Varnes, Paul Levesque, Julia Li, Danshi Li, Jeffrey A. Robl, Karen A. Rossi, and Dean A. Wacker

Monoacylglycerol Lipase Limits the Duration of Endocannabinoid-Mediated Depolarization-Induced Suppression of Excitation in Autaptic Hippocampal Neurons

Alex Straiker, Sherry Shu-Jung Hu, Jonathan Z. Long, Andy Arnold, Jim Wager-Miller, Benjamin F. Cravatt, and Ken Mackie

Activation of Retinoic Acid Receptors by Dihydroretinoids

Alexander R. Moise, Susana Alvarez, Marta Domínguez, Rosana Alvarez, Marcin Golczak, Glenn P. Lobo, Johannes vonLintig, Angel R. de Lera, and Krzysztof Palczewski

An Anticancer Effect of Curcumin Mediated by Down-Regulating Phosphatase of Regenerating Liver-3 Expression on Highly Metastatic Melanoma Cells

Lu Wang, Yan Shen, Ran Song, Yang Sun, Jianliang Xu, and Qiang Xu

Identification of Survival Genes in Human Glioblastoma Cells by Small Interfering RNA Screening

Nikhil G. Thaker, Fang Zhang, Peter R. McDonald, Tong Ying Shun, Michael D. Lewen, Ian F. Pollach, and John S. Lazo

N Terminus of Type 5 Adenylyl Cyclase Scaffolds Gs Heterotrimer

Rachna Sadana, Nathan Dascal, and Carmen W. Dessauer

NRF2 Cysteine Residues Are Critical for Oxidant/Electrophile-Sensing, Kelch-Like ECH-Associated Protein-1-Dependent Ubiquitination-Proteasomal Degradation, and Transcription Activation

Xiaoqing He and Qiang Ma

Receptor-Mediated Suppression of Potassium Currents Requires Colocalization within Lipid Rafts

Susan Oldfield, Jane Hancock, Angharad Mason, Sally A. Hobson, David Wynick, Eamonn Kelly, Andrew D. Randall, and Neil V. Marrion

N6-Substituted cAMP Analogs Inhibit bTREK-1 K$^+$ Channels and Stimulate Cortisol Secretion by a Protein Kinase A-Independent Mechanism

Haiyan Liu, Judith A. Enyeart, and John J. Enyeart

Effects of Positive Allosteric Modulators on Single-Cell Oscillatory Ca$^{2+}$ Signaling Initiated by the Type 5 Metabotropic Glutamate Receptor

Sophie J. Bradley, Jeannette M. Watson, and R. A. John Challiss

KU135, a Novel Novobiocin-Derived C-Terminal Inhibitor of the 90-kDa Heat Shock Protein, Exerts Potent Antiproliferative Effects in Human Leukemic Cells

Shary N. Shelton, Mary E. Shaugo, Shauna B. Matthews, Yuanming Lu, Alison C. Donnelly, Kristen Szabla, Mehmet Tanol, George A. Vielhauer, Roger A. Rajewski, Robert L. Matts, Brian S. J. Blagg, and John D. Robertson

P2X7 Receptor Activates Multiple Selective Dye-Permeation Pathways in RAW 264.7 and Human Embryonic Kidney 293 Cells

Serife Cankurtaran-Sayar, Kemal Sayar, and Mehmet Ugur

Peroxisome Proliferator-Activated Receptor γ Antagonists Decrease Na$^+$ Transport via the Epithelial Na$^+$ Channel

Tengis S. Pavlov, Vladislav Levchenko, Alexey V. Karpushev, Alain Vandewalle, and Alexander Staruschenko

Quantification of G$_i$-Mediated Inhibition of Adenylyl Cyclase Activity Reveals That UDP Is a Potent Agonist of the Human P2Y$_{14}$ Receptor

Phosphatidylinositol (4,5)-Bisphosphate Regulation of N-Methyl-d-aspartate Receptor Channels in Cortical Neurons
Madhuchhanda Mandal and Zhen Yan

The Basic Helix-Loop-Helix Proteins Differentiated Embryo Chondrocyte (DEC) 1 and DEC2 Function as Corepressors of Retinoid X Receptors
Yoshitake Cho, Mitsuhide Noshiro, Mihwa Choi, Kentaro Morita, Takeshi Kawamoto, Katsumi Fujimoto, Yukio Kato, and Makoto Makishima

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

About the cover: ABHD6 immunoreactivity in hippocampal neurons. See the article by Straiker et al. on page 1220 of this issue.