ARTICLES

Activation of Cannabinoid Type 2 Receptors Inhibits HIV-1 Envelope Glycoprotein gp120-Induced Synapse Loss

Hee Jung Kim, Angela H. Shin, and Stanley A. Thayer

357

Quantifying Ligand Bias at Seven-Transmembrane Receptors

Sudarshan Rajagopal, Seungkirl Ahn, David H. Rominger, William Gowen-MacDonald, Christopher M. Lam, Scott M. DeWire, Jonathan D. Violin, and Robert J. Lefkowitz

367

Allosteric Modulation of the M3 Muscarinic Receptor by Amiodarone and N-Ethylamiodarone: Application of the Four-Ligand Allosteric Two-State Model

Edward Stahl, Gwendolynne Elmslie, and John Ellis

378

Comparison of Direct Action of Thiazolidinediones and Glucocorticoids on Renal Podocytes: Protection from Injury and Molecular Effects

Shipra Agrawal, Adam J. Guess, Rainer Benndorf, and William E. Smoyer

389

Functional and Structural Relevance of Conserved Positively Charged Lysine Residues in Organic Anion Transporting Polypeptide 1B3

Kathrin Mandery, Heinrich Sticht, Krystyna Bujok, Ingrid Schmidt, Christina Fahrmyr, Bettina Balk, Martin F. Fromm, and Hartmut Glaeser

400

Calcium/Calmodulin-Dependent Kinase II Mediates the Phosphorylation and Activation of NADPH Oxidase 5

Deepesh Pandey, Jean-Philippe Gratton, Ruslan Rafikov, Stephen M. Black, and David J. R. Fulton

407

Functional Interaction between Trace Amine-Associated Receptor 1 and Dopamine D2 Receptor

Stefano Espinoza, Ali Salahpour, Bernard Masri, Tatyana D. Sotnikova, Mirko Messa, Larry S. Barak, Marc G. Caron, and Raul R. Gainetdinov

416

Batrachotoxin, Pyrethroids, and BTG 502 Share Overlapping Binding Sites on Insect Sodium Channels

Yuzhe Du, Daniel Garden, Bhupinder Khambay, Boris S. Zhorov, and Ke Dong

426

A Dynamic Model of Membrane-Bound Phospholipase Cβ2 Activation by Gβγ Subunits

Daniel S. Han, Urszula Golebiewska, Sebastian Stolzenberg, Suzanne F. Scarletta, and Harel Weinstein

434
Resveratrol Restores Nrf2 Level and Prevents Ethanol-Induced Toxic Effects in the Cerebellum of a Rodent Model of Fetal Alcohol Spectrum Disorders
Ambrish Kumar, Chandra K. Singh, Holly A. LaVoie, Donald J. DiPette, and Ugra S. Singh

Colocalization and Regulated Physical Association of Presynaptic Serotonin Transporters with A3 Adenosine Receptors
Chong-Bin Zhu, Kathryn M. Lindler, Nicholas G. Campbell, James S. Sutcliffe, William A. Hewlett, and Randy D. Blakely

Off-Target Serine/Threonine Kinase 10 Inhibition by Erlotinib Enhances Lymphocytic Activity Leading to Severe Skin Disorders
Naoko Yamamoto, Masashi Honma, and Hiroshi Suzuki

Miltefosine Induces Apoptosis-Like Cell Death in Yeast via Cox9p in Cytochrome c Oxidase
Xiaoming Zuo, Julianne T. Djordjevic, Johannes Biosoono Oei, Desmarini Desmarini, Stephen D. Schibeci, Katrina A. Jolliffe, and Tania C. Sorrell

Polymorphism and Ligand Dependent Changes in Human Glucagon-Like Peptide-1 Receptor (GLP-1R) Function: Allosteric Rescue of Loss of Function Mutation
Cassandra Koole, Denise Wootten, John Simms, Celine Valant, Laurence J. Miller, Arthur Christopoulos, and Patrick M. Sexton

Ligand-Dependent TrkA Activity in Brain Differentially Affects Spatial Learning and Long-Term Memory
Tahar Aboulkassim, Xin-Kang Tong, Yiu Chung Tse, Tak-Pan Wong, Sang B. Woo, Kenneth E. Neet, Fouad Brahimi, Edith Hamel, and H. Uri Saragovi

Cross-Reactivity of Ryanodine Receptors with Plasma Membrane Ion Channel Modulators
Jake T. Neumann and Julio A. Copello

Quantitative Prediction of Human Pregnane X Receptor and Cytochrome P450 3A4 Mediated Drug-Drug Interaction in a Novel Multiple Humanized Mouse Line

Functional Adaptation of the N-Methyl-D-aspartate Receptor to Inhibition by Ethanol Is Modulated by Striatal-Enriched Protein Tyrosine Phosphatase and p38 Mitogen-Activated Protein Kinase
Peter H. Wu, Steven J. Coultrap, Michael D. Browning, and William R. Proctor

Multiple Actions of the Anthracycline Daunorubicin on Cardiac Ryanodine Receptors
Amy D. Hanna, Marie Janczura, Eric Cho, Angela F. Dulhunty, and Nicole A. Beard

ERRATUM
Correction to “Evidence that γ-Secretase-Mediated Notch Signaling Induces Neuronal Cell Death via the Nuclear Factor-κB-Bcl-2-Interacting Mediator of Cell Death Pathway in Ischemic Stroke”

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

About the cover: gp120 induced PSD loss via the ubiquitin-proteasome pathway and induced cell death by activating NOS. See article by Kim et al. on page 357 of this issue.