SPECIAL ISSUE IN MEMORY OF AVRAM GOLDSTEIN

Avram Goldstein: The Founder of Molecular Pharmacology
Brian Cox, Ji-Sheng Han, and Ray Dingledine 720

Recent Developments in the Study of Opioid Receptors
Brian M. Cox 723

Dynorphin—Still an Extraordinarily Potent Opioid Peptide
Charles Chavkin 729

Sex-Biased Stress Signaling: The Corticotropin-Releasing Factor Receptor as a Model
Rita J. Valentino, Debra Bangasser, and Elisabeth J. Van Bockstaele 737

Ionotropic Glutamate Receptors: Regulation by G-Protein-Coupled Receptors
Asheebo Rojas and Raymond Dingledine 746

Nicotinic Receptors in Addiction Pathways
Frances M. Leslie, Celina Y. Mojica, and Daisy D. Reynaga 753

P2X Receptors as Drug Targets
R. Alan North and Michael F. Jarvis 759

ARTICLES

Somatic Mutations in GRM1 in Cancer Alter Metabotropic Glutamate Receptor 1 Intracellular Localization and Signaling
Jessica L. Esseltine, Melinda D. Willard, Isabella H. Wulur, Mary E. Lajiness, Thomas D. Barber, and Stephen S. G. Ferguson 770

Protease-Activated Receptor (PAR) 1 and PAR4 Differentially Regulate Factor V Expression from Human Platelets
Matthew Duverney, Summer Young, David Gailani, Jonathan Schoenecker, and Heidi Hamm 781

Inhibitors of PI(4,5)P2 Synthesis Reveal Dynamic Regulation of IgE Receptor Signaling by Phosphoinositides in RBL Mast Cells
Marcela de Souza Santos, Rose Mary Zumstein Georgetto Naal, Barbara Baird, and David Holowka 793

ICA-105574 Interacts with a Common Binding Site to Elicit Opposite Effects on Inactivation Gating of EAG and ERG Potassium Channels
Vivek Garg, Anna Stary-Weinzinger, and Michael C. Sanguinetti 805

Membrane Tethered Bursicon Constructs as Heterodimeric Modulators of the Drosophila G Protein–Coupled Receptor Rickets
Benjamin N. Harwood, Jean-Philippe Fortin, Kevin Gao, Ci Chen, Martin Beinborn, and Alan S. Kopin 814
Differential Activation and Modulation of the Glucagon-Like Peptide-1 Receptor by Small Molecule Ligands

A Novel Metabotropic Glutamate Receptor 5 Positive Allosteric Modulator Acts at a Unique Site and Confers Stimulus Bias to mGlu5 Signaling

Formation, Reactivity, and Antiplatelet Activity of Mixed Disulfide Conjugates of Clopidogrel
Haoming Zhang, D. Adam Lauver, Benedict R. Lucchesi, and Paul F. Hollenberg 848

Lapatinib-Mediated Cyclooxygenase-2 Expression via Epidermal Growth Factor Receptor/HuR Interaction Enhances the Aggressiveness of Triple-Negative Breast Cancer Cells
Te-Chun Hsia, Chih-Yen Tu, Yun-Ju Chen, Ya-Ling Wei, Meng-Chieh Yu, Sheng-Chie Hsu, Shing-Ling Tsai, Wen-Shu Chen, Ming-Hsin Yeh, Chia-Jui Yen, Yung-Luen Yu, Tzung-Chi Huang, Chih-Yang Huang, Mien-Chie Hung, and Wei-Chien Huang 857

Differential Phosphorylation, Desensitization, and Internalization of α1A-Adrenoceptors Activated by Norepinephrine and Oxymetazoline

Katherine R. Singleton, Jihye Kim, Trista K. Hinz, Lindsay A. Marek, Matias Casás-Selves, Clark Hatheway, Aik Choon Tan, James DeGregori, and Lynn E. Heasley 882

Phosphodiesterase 4 Inhibitors Augment the Ability of Formoterol to Enhance Glucocorticoid-Dependent Gene Transcription in Human Airway Epithelial Cells: A Novel Mechanism for the Clinical Efficacy of Roflumilast in Severe Chronic Obstructive Pulmonary Disease
Thunicia Moodley, Sylvia M. Wilson, Taruna Joshi, Christopher F. Rider, Pawan Sharma, Dong Yan, Robert Newton, and Mark A. Giembycz 894

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