ARTICLES

Molecular Determinants of Human ether-à-go-go-Related Gene 1 (hERG1) K⁺ Channel Activation by NS1643
Morten Grunnet, Jennifer Abbruzzese, Frank B. Sachse, and Michael C. Sanguinetti

Diclofenac Distinguishes among Homomeric and Heteromeric Potassium Channels Composed of KCNQ4 and KCNQ5 Subunits

Rational Design of a Selective Covalent Modifier of G Protein βγ Subunits
Axel L. Dessal, Roger Prades, Ernest Giralt, and Alan V. Smrcka

TAK-242 (Resatorvid), a Small-Molecule Inhibitor of Toll-Like Receptor (TLR) 4 Signaling, Binds Selectively to TLR4 and Interferes with Interactions between TLR4 and Its Adaptor Molecules
Naoko Matsunaga, Noboru Tsuchimori, Tatsumi Matsumoto, and Masayuki Ii

Development of a Selective Small-Molecule Inhibitor of Kir1.1, the Renal Outer Medullary Potassium Channel
Gautam Bhave, Brian A. Chauder, Wen Liu, Eric S. Dawson, Rishin Kadakia, Thuy T. Nguyen, L. Michelle Lewis, Jens Meiler, C. David Weaver, Lisa M. Satlin, Craig W. Lindsley, and Jerod S. Denton

Aminoglycosides Inhibit KCNQ4 Channels in Cochlear Outer Hair Cells via Depletion of Phosphatidylinositol(4,5)bisphosphate
Michael G. Leitner, Christian R. Halaszovich, and Dominik Oliver

Modulation of Chemokines and Allergic Airway Inflammation by Selective Local Sphingosine-1-phosphate Receptor 1 Agonism in Lungs
David Marsolais, Saiko Yagi, Tomoyuki Kago, Nora Leaf, and Hugh Rosen

Pharmacological Characterization of MK-7246, a Potent and Selective CRTH2 (Chemoattractant Receptor-Homologous Molecule Expressed on T-Helper Type 2 Cells) Antagonist
Francois G. Gervais, Nicole Sawyer, Rino Stocco, Martine Hamel, Connie Krauczyk, Susan Sillaots, Danielle Denis, Elizabeth Wong, Zhaoyin Wang, Michel Gallant, William M. Abraham, Deborah Slipetz, Michael A. Crackower, and Gary P. O'Neill
Gastrin-Releasing Peptide/Neuromedin B Receptor Antagonists PD176252, PD168368, and Related Analogs Are Potent Agonists of Human Formyl-Peptide Receptors
Igor A. Schepetkin, Liliya N. Kirpotina, Andrei I. Khlebnikov, Mark A. Jutila, and Mark T. Quinn

Signaling Pathways Leading to Phosphorylation of Akt and GSK-3β by Activation of Cloned Human and Rat Cerebral D2 and D3 Receptors
Clotilde Mannoury la Cour, Marie-Josèphe Salles, Valérie Pasteau, and Mark J. Millan

Curcumin Dually Inhibits Both Mammalian Target of Rapamycin and Nuclear Factor-κB Pathways through a Crossed Phosphatidylinositol 3-Kinase/Akt/IKK Kinase Complex Signaling Axis in Adenoid Cystic Carcinoma
Zhi-Jun Sun, Gang Chen, Wei Zhang, Xiang Hu, Yang Liu, Qian Zhou, Ling-Xing Zhu, and Yi-Fang Zhao

Acetylcholine Receptor (AChR) α5 Subunit Variant Associated with Risk for Nicotine Dependence and Lung Cancer Reduces (α4β2)α5 AChR Function
Alexander Kuryatov, Wade Berrettini, and Jon Lindstrom

Expression of Functional Human α6β2β3* Acetylcholine Receptors in Xenopus laevis Oocytes Achieved through Subunit Chimeras and Concatamers
Alexandre Kuryatov and Jon Lindstrom

CGP-37157 Inhibits the Sarcoplasmic Reticulum Ca2+ ATPase and Activates Ryanodine Receptor Channels in Striated Muscle
Jake T. Neumann, Paula L. Diaz-Sylvester, Sidney Fleischer, and Julio A. Copello

Activated Sterol Regulatory Element-Binding Protein-2 Suppresses Hepatocyte Nuclear Factor-4-Mediated Cyp3a11 Expression in Mouse Liver
Shin-ichi Inoue, Kouichi Yoshinari, Mika Sugawara, and Yasushi Yamazoe

Copper Transporter 2 Regulates Endocytosis and Controls Tumor Growth and Sensitivity to Cisplatin In Vivo
Brian G. Blair, Christopher A. Larson, Preston L. Adams, Paolo B. Abada, Catherine E. Pesce, Roohangiz Safaei, and Stephen B. Howell

α4β2 Nicotinic Receptors Partially Mediate Anti-Inflammatory Effects through Janus Kinase 2-Signal Transducer and Activator of Transcription 3 but Not Calcium or cAMP Signaling
Vishnu Hosur and Ralph H. Loring

Rab GTPases Bind at a Common Site within the Angiotensin II Type I Receptor Carboxyl-Terminal Tail: Evidence that Rab4 Regulates Receptor Phosphorylation, Desensitization, and Resensitization
Jessica L. Esseltine, Lianne B. Dale, and Stephen S. G. Ferguson

Iron Chelators of the Di-2-pyridylketone Thiosemicarbazone and 2-Benzoylpyridine Thiosemicarbazone Series Inhibit HIV-1 Transcription: Identification of Novel Cellular Targets—Iron, Cyclin-Dependent Kinase (CDK) 2, and CDK9

Histone Deacetylase Inhibitors Stimulate Histone H3 Lysine 4 Methylation in Part Via Transcriptional Repression of Histone H3 Lysine 4 Demethylases
Po-Hsien Huang, Chun-Han Chen, Chih-Chien Chou, Aaron M. Sargeant, Samuel K. Kulp, Che-Ming Teng, John C. Byrd, and Ching-Shih Chen

Correction to “Poly(ADP-Ribose) Polymerase 1 Modulates the Lethality of CHK1 Inhibitors in Carcinoma Cells”

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

About the cover: Electrostatic surface representation of “hot spot” for protein interactions with Gβγ. See article by Dessal et al. on page 24 of this issue.