MINIREVIEWS

Targeting Protein Serine/Threonine Phosphatases for Drug Development
Jamie L. McConnell and Brian E. Wadzinski
1249

Pharmacology of Vanilloid Transient Receptor Potential Cation Channels
Joris Vriens, Giovanni Appendino, and Bernd Nilius
1262

ACCELERATED COMMUNICATION

Targeted Disruption of the Multidrug and Toxin Extrusion 1 (Mate1) Gene in Mice Reduces Renal Secretion of Metformin
Masahiro Tsuda, Tomohiro Terada, Tomoyuki Mizuno, Toshiya Katsura, Jin Shimakura, and Ken-ichi Inui
1280

ARTICLES

Mutational and In Silico Analyses for Antidepressant Block of Astroglial Inward-Rectifier Kir4.1 Channel
Kazuharu Furutani, Yukihiro Ohno, Atsushi Inanobe, Hiroshi Hibino, and Yoshihisa Kurachi
1287

Instability of a Class A G Protein-Coupled Receptor Oligomer Interface
Jacqueline M. Fonseca and Nevin A. Lambert
1296

Activation of Rho and Rho-Associated Kinase by GPR54 and KiSS1 Metastasis Suppressor Gene Product Induces Changes of Cell Morphology and Contributes to Apoptosis
Jean-Marc Navenot, Nobutaka Fujii, and Stephen C. Peiper
1300

μ-Opioid Receptor Cell Surface Expression Is Regulated by Its Direct Interaction with Ribophorin I
Xin Ge, Horace H. Loh, and Ping-Yee Law
1307

Met909 Plays a Key Role in the Activation of the Progesterone Receptor and Also in the High Potency of 13-Ethyl Progestins
Isabelle Petit-Topin, Nathalie Turque, Jérôme Fagart, Michel Fay, André Ulmann, Erin Gainer, and Marie-Edith Rafestin-Oblin
1317
Elucidation of Binding Sites of Dual Antagonists in the Human Chemokine Receptors CCR2 and CCR5

CYP4F2 Is a Vitamin K1 Oxidase: An Explanation for Altered Warfarin Dose in Carriers of the V433M Variant
Matthew G. McDonald, Mark J. Rieder, Mariko Nakano, Clara K. Hsia, and Allan E. Rettie

An Ivermectin-Sensitive Glutamate-Gated Chloride Channel from the Parasitic Nematode Haemonchus contortus
Samantha McCavera, Adrian T. Rogers, Darran M. Yates, Debra J. Woods, and Adrian J. Wolstenholme

Bifunctional DNA Alkylator 1,3-Bis(2-chloroethyl)-1-nitrosourea Activates the ATR-Chk1 Pathway Independently of the Mismatch Repair Pathway

Enhancement of Doxorubicin Cytotoxicity on Human Esophageal Squamous Cell Carcinoma Cells by Indomethacin and 4-[5-(4-Chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonyamide (SC236) via Inhibiting P-Glycoprotein Activity
Le Yu, William Ka Kei Wu, Zhi Jie Li, Qi Cai Liu, Hai Tao Li, Ya Chun Wu, and Chi Hin Cho

MicroRNA-328 Negatively Regulates the Expression of Breast Cancer Resistance Protein (BCRP/ABCG2) in Human Cancer Cells
Yu-Zhuo Pan, Marilyn E. Morris, and Ai-Ming Yu

Evidence for Distinct Antagonist-Revealed Functional States of 5-Hydroxytryptamine2A Receptor Homodimers
José Brea, Marian Castro, Jesús Giraldo, Juan F. López-Giménez, Juan Fernando Padín, Fátima Quintián, María Isabel Cadavid, María Teresa Vilaró, Guadalupe Mengod, Kelly A. Berg, William P. Clarke, Jean-Pierre Vilaradaga, Graeme Milligan, and María Isabel Loza

Regulation of Human Vitamin D3 25-Hydroxylases in Dermal Fibroblasts and Prostate Cancer LNCaP Cells
Maria Ellfolk, Maria Norlin, Katarina Gyllensten, and Kjell Wikvall

Activation and Modulation of Concatemeric GABA-A Receptors Expressed in Human Embryonic Kidney Cells
Gustav Akk, Ping Li, John Bracamontes, and Joe Henry Steinbach

Ligand Selectivity and Gene Regulation by the Human Aryl Hydrocarbon Receptor in Transgenic Mice
Colin A. Flaveny, Iain A. Murray, Chris R. Chiaro, and Gary H. Perdew

Statin-Induced Liver Injury Involves Cross-Talk between Cholesterol and Selenoprotein Biosynthetic Pathways
Andrea Kromer and Bernd Moosmann

A Small-Molecule Modulator Interacts Directly with ΔPhe508-CFTR to Modify Its ATPase Activity and Conformational Stability
Leigh Wellhauser, Patrick Kim Chiaw, Stan Pasyk, Canhui Li, Mohabir Ramjeesingh, and Christine E. Bear

About the cover: Effect of mutations at Gln150 and Leu151 on Kir4.1 channel currents and block. See the article by Furutani et al. on page 1287 of this issue.

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