PERSPECTIVE
Constitutive Trafficking—More Than Just Running in Circles?
Laura M. Bohn

MINIREVIEW
The Highly Conserved DRY Motif of Class A G Protein-Coupled Receptors: Beyond the Ground State
G. Enrico Rovati, Valérie Capra, and Richard R. Neubig

ARTICLES
Concurrent Administration of Neu2000 and Lithium Produces Marked Improvement of Motor Neuron Survival, Motor Function, and Mortality in a Mouse Model of Amyotrophic Lateral Sclerosis
Jin Hee Shin, Sung Ig Cho, Hyang Ran Lim, Jae Keun Lee, Young Ae Lee, Jai Sung Noh, In Soo Joo, Kee-Won Kim, and Byoung Joo Gwag

An Essential Role for Constitutive Endocytosis, but Not Activity, in the Axonal Targeting of the CB1 Cannabinoid Receptor
Neil A. McDonald, Christopher M. Henstridge, Christopher N. Connolly, and Andrew J. Irving

Genetic Evidence for a Protective Role of Heat Shock Factor 1 against Irritant-Induced Gastric Lesions

Uncovering the Pharmacology of the G Protein-Coupled Receptor GPR40: High Apparent Constitutive Activity in Guanosine 5’-O-(3-[35S]thio)triphosphate Binding Studies Reflects Binding of an Endogenous Agonist
Leigh A. Stoddart, Andrew J. Brown, and Graeme Milligan

Differential Selection of Acridine Resistance Mutations in Human DNA Topoisomerase IIβ Is Dependent on the Acridine Structure
Chrysoula Leontiou, Gary P. Watters, Kathryn L. Gilroy, Pauline Heslop, Ian G. Cowell, Kate Craig, Robert N. Lightowlers, Jeremy H. Lakey, and Caroline A. Austin

The symbols in the table of contents identify articles discussed in the Perspective.
The $\alpha_{1B}$-Adrenoceptor Exists as a Higher-Order Oligomer: Effective Oligomerization Is Required for Receptor Maturation, Surface Delivery, and Function
Juan F. Lopez-Gimenez, Meritxell Canals, John D. Pediani, and Graeme Milligan

RGS4 Modulates Serotonin Signaling in Prefrontal Cortex and Links to Serotonin Dysfunction in a Rat Model of Schizophrenia
Zhenglin Gu, Qian Jiang, and Zhen Yan

N-Terminal Residues Control Proteasomal Degradation of RGS2, RGS4, and RGS5 in Human Embryonic Kidney 293 Cells
Johannes Bodenstein, Roger K. Sunahara, and Richard R. Neubig

BRCA1 Contributes to Cell Cycle Arrest and Chemoresistance in Response to the Anticancer Agent Irofulven
Timothy Wiltshire, Jamie Senft, Yutian Wang, Gregory W. Konat, Sharon L. Wenger, Eddie Reed, and Weixin Wang

High-Throughput Screening for Small-Molecule Activators of Neutrophils: Identification of Novel N-Formyl Peptide Receptor Agonists
Igor A. Schepetkin, Liliya N. Kirpotina, Andrei I. Khlebnikov, and Mark T. Quinn

Voltage-Sensitive Oxonol Dyes Are Novel Large-Conductance Ca$^{2+}$-Activated K$^+$ Channel Activators Selective for $\beta$1 and $\beta$4 but Not for $\beta$2 Subunits
Takashi Morimoto, Kazuho Sakamoto, Hiroko Sade, Susumu Ohyo, Katsuhiko Muraki, and Yuji Imaizumi

Function of Both Sinusoidal and Canalicular Transporters Controls the Concentration of Organic Anions within Hepatocytes
Corinne Planchamp, Antoine Hadengue, Bruno Stieger, Joëlle Bourquin, Alain Vonlaufen, Jean-Louis Frossard, Rafael Quadri, Christoph D. Becker, and Catherine M. Pastor

Loss of the High-Affinity Pentamidine Transporter Is Responsible for High Levels of Cross-Resistance between Arsenical and Diamidine Drugs in African Trypanosomes
Daniel J. Bridges, Matthew K. Gould, Barbara Nerima, Pascal Mäser, Richard J. S. Burchmore, and Harry P. de Koning

Methylmercury-Induced Increase of Intracellular Ca$^{2+}$ Increases Spontaneous Synaptic Current Frequency in Rat Cerebellar Slices
Yukun Yuan and William D. Atchison

Conjugated Bile Acids Regulate Hepatocyte Glycogen Synthase Activity In Vitro and In Vivo via $G_{\alpha_i}$ Signaling
Youwen Fang, Elaine Studer, Clint Mitchell, Steven Grant, William M. Pandak, Philip B. Hylemon, and Paul Dent

Protein Kinase C-Dependent Mitochondrial Translocation of Proapoptotic Protein Bax on Activation of Inducible Nitric-Oxide Synthase in Rostral Ventrolateral Medulla Mediates Cardiovascular Depression during Experimental Endotoxemia

Structure-Based Identification of Novel Human $\gamma$-Glutamylcysteine Synthetase Inhibitors
David Hamilton, Jian Hui Wu, and Gerald Batist

In Vivo Regulation of Homer1a Expression in the Striatum by Cocaine
Guo-Chi Zhang, Li-Min Mao, Xian-Yu Liu, Nikhil K. Parelkar, Anish Arora, Lu Yang, Michelle Hains, Eugene E. Fibuch, and John Q. Wang

Activation of cAMP-Dependent Signaling Pathway Induces Mouse Organic Anion Transporting Polypeptide 2 Expression
Chuan Chen, Xingguo Cheng, Matthew Z. Dieter, Yuji Tanaka, and Curtis D. Klaassen
Structure of the $d$(CGCGAATTCGCG)$_2$ Complex of the Minor Groove Binding Alkylation Agent Alkamin Studied by Mass Spectrometry
Amin M. S. Abdul Majid, George Smythe, William A. Denny, and Laurence P. G. Wakelin

Interaction of $G\alpha_q$ and Kir3, G Protein-Coupled Inwardly Rectifying Potassium Channels
Takeharu Kawano, Peng Zhao, Christina V. Floreani, Yasuko Nakajima, Tohru Kozasa, and Shigehiro Nakajima

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

About the cover: Coexpression with Leu$^{65}$Ala,$^{66}$Val,$^{66}$Ala,$^{166}$Ala,$^{167}$Ala $\alpha_{11}$-adrenoceptor limits cell surface delivery of the wild-type $\alpha_{11}$-adrenoceptor but not the CXCR1 receptor. See the article by Lopez-Gimenez et al. on page 1015 of this issue.