CENTENNIAL PERSPECTIVE
Sex Differences in the Expression of Hepatic Drug Metabolizing Enzymes
David J. Waxman and Minita G. Holloway 215

MINIREVIEWS
Trace Amine-Associated Receptors as Emerging Therapeutic Targets
Tatyana D. Sotnikova, Marc G. Caron, and Raul R. Gainetdinov 229
Diphosphoinositol Polyphosphates: Metabolic Messengers?
Stephen B. Shears 236

ARTICLES
An Allosteric Modulator of α7 Nicotinic Receptors, N-(5-Chloro-2,4-dimethoxyphenyl)-N’-(5-methyl-3-isoxazolyl)-urea (PNU-120596), Causes Conformational Changes in the Extracellular Ligand Binding Domain Similar to Those Caused by Acetylcholine
Sean C. Barron, James T. McLaughlin, Jennifer A. See, Vanessa L. Richards, and Robert L. Rosenberg 253

Functional Importance of a Structurally Distinct Homodimeric Complex of the Family B G Protein-Coupled Secretin Receptor

Five Amino Acids in the Innermost Cavity of the Substrate Binding Cleft of Organic Cation Transporter 1 Interact with Extracellular and Intracellular Corticosterone
Christopher Volk, Valentin Gorboulev, Alexander Kotzsch, Thomas D. Müller, and Hermann Koepsell 275

Antitumor Effects of Dehydroxymethylepoxyquinomicin, a Novel Nuclear Factor-κB Inhibitor, in Human Liver Cancer Cells Are Mediated through a Reactive Oxygen Species-Dependent Mechanism
Nadia Lampiasi, Antonina Azzolina, Natale D'Alessandro, Kazuo Umezawa, James A. McCubrey, Giuseppe Montalto, and Melchiorre Cervello 290

Irreversible Platelet Activation Requires Protease-Activated Receptor 1-Mediated Signaling to Phosphatidylinositol Phosphates
Michael Holinstat, Anita M. Preininger, Stephen B. Milne, W. James Hudson, H. Alex Brown, and Heidi E. Hamm 301

Molecular Pharmacology (ISSN 0026-895X) is published monthly (two volumes per year beginning in January and July) by the American Society for Pharmacology and Experimental Therapeutics, 9650 Rockville Pike, Bethesda, MD 20814-3995; e-mail: subscriptions@aspet.org; web site: aspet.org. Periodicals postage paid at Bethesda, MD, and at additional mailing offices. POSTMASTER: Send address changes to Molecular Pharmacology, 9650 Rockville Pike, Bethesda, MD 20814-3995. Subscription rates: U.S.: $686.00; outside the U.S.: $778.00. Single copy: $60.00. GST Tax Number for Canadian subscribers: BN:13489 2330 RT. Indexed or abstracted by Biochemistry & Biophysics Citation Index®, Biological Abstracts, Current Awareness in Biological Sciences, Current Contents®/Life Sciences, EMBASE/Excerpta Medica, Index Medicus, Medical Documentation Service®, Reference Update®, Research Alert®, Science Citation Index®, and SciSearch®. Copyright © 2009 by the American Society for Pharmacology and Experimental Therapeutics. All rights reserved. Printed in the U.S.A.
\(\alpha_1\)-Adrenergic Receptors Regulate Neurogenesis and Gliogenesis

Manveen K. Gupta, Robert S. Papay, Chris W. D. Jurgens, Robert J. Gaivin, Ting Shi, Van A. Doze, and Dianne M. Perez

BCL-2 Family Inhibitors Enhance Histone Deacetylase Inhibitor and Sorafenib Lethality via Autophagy and Overcome Blockade of the Extrinsic Pathway to Facilitate Killing

Aditi Pandya Martin, Margaret A. Park, Clint Mitchell, Teneille Walker, Mohamed Rahmani, Andrew Thorburn, Dieter Häussinger, Roland Reinehr, Steven Grant, and Paul Dent

Sorafenib and Vorinostat Kill Colon Cancer Cells by CD95-Dependent and -Independent Mechanisms

Teneille Walker, Clint Mitchell, Margaret A. Park, Adly Yacoub, Martin Graf, Mohamed Rahmani, Peter J. Houghton, Christina Voelkel-Johnson, Steven Grant, and Paul Dent

A Novel Selective Muscarinic Acetylcholine Receptor Subtype 1 Antagonist Reduces Seizures without Impairing Hippocampus-Dependent Learning

Douglas J. Sheffler, Richard Williams, Thomas M. Bridges, Zixiu Xiang, Alexander S. Kane, Nellie E. Byun, Satyawan Jadhav, Mathew M. Mock, Fang Zheng, L. Michelle Lewis, Carrie K. Jones, Colleen M. Niswender, Charles D. Weaver, Craig W. Lindsley, and P. Jeffrey Conn

Augmentation of Fear Extinction by Infusion of Glycine Transporter Blockers into the Amygdala

Sheng-Chun Mao, Hui-Ching Lin, and Po-Wu Gean

Activation of mGlu2/3 Metabotropic Glutamate Receptors Negatively Regulates the Stimulation of Inositol Phospholipid Hydrolysis Mediated by 5-Hydroxytryptamine\(_2\)A Serotonin Receptors in the Frontal Cortex of Living Mice

G. Molinaro, A. Traficante, B. Rizzi, L. Di Menna, M. Curto, S. Pallottino, F. Nicoletti, V. Bruno, and G. Battaglia

Cytosolic Aryl Sulphotransferase 4A1 Interacts with the Peptidyl Prolyl Cis-Trans Isomerase Pin1

Deanne J. Mitchell and Rodney F. Minchin

Controls of Tonic and Phasic Dopamine Transmission in the Dorsal and Ventral Striatum

Lifen Zhang, William M. Doyon, Jeremy J. Clark, Paul E. M. Phillips, and John A. Dani

Comparative Study of Inhibition at Multiple Stages of Amyloid-\(\beta\) Self-Assembly Provides Mechanistic Insight

Timothy J. Davis, Deborah D. Soto-Ortega, Joseph A. Kotarek, Francisco J. Gonzalez-Velasquez, Krishnamoothy Sivakumar, Laying Wu, Qian Wang, and Melissa A. Moss

Peroxisome Proliferator-Activated Receptor (PPAR)-\(\gamma\) Positively Controls and PPAR\(\alpha\) Negatively Controls Cyclooxygenase-2 Expression in Rat Brain Astrocytes through a Convergence on PPAR\(\beta/\delta\) via Mutual Control of PPAR Expression Levels

Stepan Aleshin, Sevil Grabeklis, Theodor Hanck, Marina Sergeeva, and Georg Reiser

Estrogen Receptor \(\alpha\), Fos-Related Antigen-2, and c-Jun Coordinately Regulate Human UDP Glucuronosyltransferase 2B15 and 2B17 Expression in Response to 17\(\beta\)-Estradiol in MCF-7 Cells

Dong Gui Hu and Peter I. Mackenzie

Docking of 1,4-Benzodiazepines in the \(\alpha_1/\gamma\) GABA\(A\) Receptor Modulator Site

D. Berezhnoy, T. T. Gibbs, and D. H. Farb

ERRATA

Correction to “Mutational and in Silico Analyses for Antidepressant Block of Astroglial Inward-Rectifier Kir4.1 Channel”

Correction to “Knock-In Mouse Lines Expressing either Mitochondrial or Microsomal CYP1A1: Differing Responses to Dietary Benzo[\(a\)]pyrene as Proof of Principle”

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

About the cover: \(\alpha_1\)-AR promoter-EGFP cells localize in the SVZ in vivo. See the article by Gupta, et al., on page 314 of this issue.