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

MINIREVIEWS
Trace Amine-Associated Receptors as Emerging Therapeutic Targets
Tatyana D. Sotnikova, Marc G. Caron, and Raul R. Gainetdinov

Diphosphoinositol Polyphosphates: Metabolic Messengers?
Stephen B. Shears

ARTICLES
An Allosteric Modulator of \( \alpha7 \) Nicotinic Receptors, \( N-(5-\text{Chloro-2,4-dimethoxyphenyl})-N'-(5-\text{methyl-3-isoxazolyl})-\text{urea} \) (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

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

Antitumor Effects of Dehydroxymethylepoxyquinomicin, a Novel Nuclear Factor-\( \kappa \)B 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 Montalta, and Melchiorre Cervello

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
α1-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
[314]

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
[327]

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
[342]

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
[356]

Augmentation of Fear Extinction by Infusion of Glycine Transporter Blockers into the Amygdala
Sheng-Chun Mao, Hui-Ching Lin, and Po-Wu Gean
[369]

Activation of mGlu2/3 Metabotropic Glutamate Receptors Negatively Regulates the Stimulation of Inositol Phospholipid Hydrolysis Mediated by 5-Hydroxytryptamine2A 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
[379]

Cytosolic Aryl Sulotransferase 4A1 Interacts with the Peptidyl Prolyl Cis-Trans Isomerase Pin1
Deanne J. Mitchell and Rodney F. Minchin
[388]

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
[396]

Comparative Study of Inhibition at Multiple Stages of Amyloid-β 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
[405]

Peroxisome Proliferator-Activated Receptor (PPAR)-γ Positively Controls and PPARα Negatively Controls Cyclooxygenase-2 Expression in Rat Brain Astrocytes through a Convergence on PPARβ/δ via Mutual Control of PPAR Expression Levels
Stepan Aleshin, Sevil Grabeklis, Theodor Hanck, Marina Sergeeva, and Georg Reiser
[414]

Estrogen Receptor α, Fos-Related Antigen-2, and c-Jun Coordinately Regulate Human UDP Glucuronosyltransferase 2B15 and 2B17 Expression in Response to 17β-Estradiol in MCF-7 Cells
Dong Gui Hu and Peter I. Mackenzie
[425]

Docking of 1,4-Benzodiazepines in the α1/γ2 GABA_A Receptor Modulator Site
D. Berezhnoy, T. T. Gibbs, and D. H. Farb
[440]

ERRATA
Correction to “Mutational and in Silico Analyses for Antidepressant Block of Astroglial Inward-Rectifier Kir4.1 Channel”
[451]

Correction to “Knock-In Mouse Lines Expressing either Mitochondrial or Microsomal CYP1A1: Differing Responses to Dietary Benzo[α]pyrene as Proof of Principle”
[452]

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