MINIREVIEW
Oral Benzo[a]pyrene: Understanding Pharmacokinetics, Detoxication, and Consequences—Cyp1 Knockout Mouse Lines as a Paradigm
Daniel W. Nebert, Zhanquan Shi, Marina Gálvez-Peralta, Shigeyuki Uno, and Nadine Dragin

ARTICLES
- Selective Agonists and Antagonists of Formylpeptide Receptors: Duplex Flow Cytometry and Mixture-Based Positional Scanning Libraries
  Clemencia Pinilla, Bruce S. Edwards, Jon R. Appel, Tina Yates-Gibbins, Marc A. Giulianotti, Jose L. Medina-Franco, Susan M. Young, Radleigh G. Santos, Larry A. Sklar, and Richard A. Houghten
- Mechanisms of Transient Receptor Potential Vanilloid 1 Activation and Sensitization by Allyl Isothiocyanate
  Maarten Gees, Yerandy A. Alpizar, Brett Boonen, Alicia Sanchez, Wouter Everaerts, Andrei Segal, Fenqin Xue, Annelies Janssens, Grzegorz Owsianik, Bernd Nilius, Thomas Voets, and Karel Talavera
- Extracellular Disulfide Bridges Serve Different Purposes in Two Homologous Chemokine Receptors, CCR1 and CCR5
  Pia C. Rummel, Stefanie Thiele, Lærke S. Hansen, Trine P. Petersen, Alexander H. Sparre-Ulrich, Trond Ulven, and Mette M. Rosenkilde
- Segregation of Family A G Protein–Coupled Receptor Protomers in the Plasma Membrane
  Anthony Gavalas, Tien-Hung Lan, Qiuju Liu, Ivan R. Corrêa Jr., Jonathan A. Javitch, and Nevin A. Lambert
- Sox9b Is Required for Epicardium Formation and Plays a Role in TCDD-Induced Heart Malformation in Zebrafish
  Peter Hofsteen, Jessica Plavicki, Shaina D. Johnson, Richard E. Peterson, and Warren Heideman
- Human Immunodeficiency Virus Protease Inhibitors Interact with ATP Binding Cassette Transporter 4/Multidrug Resistance Protein 4: A Basis for Unanticipated Enhanced Cytotoxicity
  Yu Fukuda, Kazumasa Takenaka, Alex Sparreboom, Satish B. Cheepala, Chung-Pu Wu, Sean Ekins, Suresh V. Ambudkar, and John D. Schuetz
- Connective Tissue Growth Factor/CCN2 Attenuates β-Adrenergic Receptor Responsiveness and Cardiototoxicity by Induction of G Protein–Coupled Receptor Kinase-5 in Cardiomyocytes
  Jørgen Gravning, M. Shakil Ahmed, Eirik Qvigstad, Kurt Krobert, Thor Edvardsen, Ingvild Tronstad Moe, Else Marie V. Hagelin, Julja Sagave, Guro Valen, Finn Olav Levy, Jan-Bjørn Osnes, Tor Skomedal, and Håvard Attemadal
- Novel Amino-Carbonitrile-Pyrazole Identified in a Small Molecule Screen Activates Wild-Type and ΔF508 Cystic Fibrosis Transmembrane Conductance Regulator in the Absence of a cAMP Agonist
  Wan Namkung, Jinhong Park, Yohan Seo, and A. S. Verkman
α4α6β2 Nicotinic Acetylcholine Receptor Activation on Ventral Tegmental Area Dopamine Neurons Is Sufficient to Stimulate a Depolarizing Conductance and Enhance Surface AMPA Receptor Function

Staci E. Engle, Pei-Yu Shih, J. Michael McIntosh, and Ryan M. Drenan

Potent Inhibition of Aldehyde Dehydrogenase-2 by Diphenyleneiodonium: Focus on Nitroglycerin Bioactivation

Regina Neubauer, Andrea Neubauer, Gerald Wölkart, Christine Schwarzenegger, Barbara Lang, Kurt Schmidt, Michael Russwurm, Doris Koesling, Antonius C. F. Gorren, Astrid Schrammel, and Bernd Mayer

Hits of a High-Throughput Screen Identify the Hydrophobic Pocket of Autotaxin/Lysophospholipase D As an Inhibitory Surface


Reverse Engineering of the Selective Agonist TBPB Unveils Both Orthosteric and Allosteric Modes of Action at the M3 Muscarinic Acetylcholine Receptor

Peter Keov, Celine Valant, Shane M. Devine, J. Robert Lane, Peter J. Scammells, Patrick M. Sexton, and Arthur Christopoulos

The Role of Human Equilibrative Nucleoside Transporter 1 on the Cellular Transport of the DNA Methyltransferase Inhibitors 5-Azacytidine and CP-4200 in Human Leukemia Cells

Johanna Hummel-Eisenbeiss, Antje Hascher, Petter-Arnt Hals, Marit Liland Sandvold, Carsten Müller-Tidow, Frank Lyko, and Maria Rius

Specificity Determinants of CYP1B1 Estradiol Hydroxylation

Clinton R. Nishida, Steven Everett, and Paul R. Ortiz de Montellano

Multiple Modes of α7 nAChR Noncompetitive Antagonism of Control Agonist-Evoked and Allosterically Enhanced Currents


Prostaglandin E Receptor EP1 Forms a Complex with Dopamine D1 Receptor and Directs D1-Induced cAMP Production to Adenylyl Cyclase 7 through Mobilizing Gβγ Subunits in Human Embryonic Kidney 293T Cells

Aliza T. Ehrlich, Tomoyuki Furuyashiki, Shiho Kitaoka, Akira Kakizuka, and Shuh Narumiya

ERRATUM
Correction to “Protease-Activated Receptor (PAR) 1 and PAR4 Differentially Regulate Factor V Expression from Human Platelets”

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

About the cover: Corecruitment of C1C2 but not β2 AR protomers to IMAC beads. See the article by Gavalas et al. on page 346 of this issue.