PERSPECTIVE
Revoking the Privilege: Targeting HER2 in the Central Nervous System
Joseph N. Contessa and Daniel A. Hamstra

ACCELERATED COMMUNICATION
Prostaglandin-Induced Activation of Nociceptive Neurons via Direct Interaction with Transient Receptor Potential A1 (TRPA1)
Thomas E. Taylor-Clark, Bradley J. Undem, Donald W. MacGlashan, Jr., Srinivas Ghatta, Michael J. Carr, and M. Allen McAlexander

ARTICLES
Cortical Glutamatergic Neurons Mediate the Motor Sedative Action of Diazepam

Distinct Phosphorylation Sites in the SST2A Somatostatin Receptor Control Internalization, Desensitization, and Arrestin Binding
Q. Liu, D. A. Dewi, W. Liu, M. S. Bee, and A. Schonbrunn

Conformational Flexibility of Helix VI is Essential for Substrate Permeation of the Human Apical Sodium-Dependent Bile Acid Transporter
Naissan Hussainzada, Akash Khandewal, and Peter W. Swaan

Anandamide Inhibition of 5-HT3A Receptors Varies with Receptor Density and Desensitization
Wei Xiong, Masako Hosoi, Bon-Nyeo Koo, and Li Zhang

Peroxisome Proliferator-Activated Receptor-α Contributes to the Anti-Inflammatory Activity of Glucocorticoids
Salvatore Cuzzocrea, Stefano Bruscoli, Emanuela Mazzon, Concetta Crisafulli, Valerio Donato, Rosanna Di Paola, Enrico Velardi, Emanuela Esposito, Giuseppe Nocentini, and Carlo Riccardi

Cellular and in Vivo Activity of JNJ-28871063, A Nonquinazoline Pan-ErbB Kinase Inhibitor That Crosses the Blood-Brain Barrier and Displays Efficacy against Intracranial Tumors
Stuart L. Emanuel, Terry V. Hughes, Mary Adams, Catherine A. Rugg, Angel Fuentes-Pesquera, Peter J. Connolly, Niranjan Pandey, Sandra Moreno-Mazza, Jeannene Butler, Virna Borowski, Steven A. Middleton, Robert H. Gruninger, Jennifer R. Story, Cheryl Napier, Beth Hollister, and Lee M. Greenberger

The symbols in the table of contents identify articles discussed in the Perspective.
Characterization of G-Protein Coupled Receptor Kinase Interaction with the Neurokinin-1 Receptor Using Bioluminescence Resonance Energy Transfer  
Rasmus Jorgensen, Nicholas D. Holliday, Jakob L. Hansen, Milka Vrecl, Anders Heding, Thue W. Schwartz, and Christian E. Elling  
349

A Novel Actin-Binding Domain on Slo1 Calcium-Activated Potassium Channels Is Necessary for Their Expression in the Plasma Membrane  
Shengwei Zou, Smita Jha, Eun Young Kim, and Stuart E. Dryer  
359

The β1 Subunit of L-Type Voltage-Gated Ca2+ Channels Independently Binds to and Inhibits the Gating of Large-Conductance Ca2+-Activated K+ Channels  
Shengwei Zou, Smita Jha, Eun Young Kim, and Stuart E. Dryer  
369

Functional Characterization of a Nucleoside-Derived Drug Transporter Variant (hCNT3C602R) Showing Altered Sodium-Binding Capacity  
Ekaitz Errasti-Murugarren, Pedro Cano-Soldado, Marçal Pastor-Anglada, and Fco Javier Casado  
379

Repression of Aryl Hydrocarbon Receptor (AHR) Signaling by AHR Repressor: Role of DNA Binding and Competition for AHR Nuclear Translocator  
Brad R. Evans, Sibel I. Karchner, Lenka L. Allan, Richard S. Pollenz, Robert L. Tanguay, Matthew J. Jenny, David H. Sherr, and Mark E. Hahn  
387

Curcumin Protects the Rat Liver from CCl4-Caused Injury and Fibrogenesis by Attenuating Oxidative Stress and Suppressing Inflammation  
Yumei Fu, Shizhong Zheng, Jianguo Lin, Jan Ryerse, and Anping Chen  
399

Small Molecule Disruption of G Protein βγ Subunit Signaling Inhibits Neutrophil Chemotaxis and Inflammation  
D. M. Lehmann, A. M. P. B. Seneviratne, and A. V. Smrcka  
410

BubR1 Is Required for a Sustained Mitotic Spindle Checkpoint Arrest in Human Cancer Cells Treated with Tubulin-Targeting Pyrrolo-1,5-Benzoxazepines  
Lisa M. Greene, Giuseppe Campiani, Mark Lawler, D. Clive Williams, and Daniela M. Zisterer  
419

Role of Extracellular Domain Dimerization in Agonist-Induced Activation of Natriuretic Peptide Receptor A  
Marie Parat, Normand McNicoll, Brian Wilkes, Alain Fournier, and André De Léan  
431

Inhibition of Human Neutrophil Chemotaxis by Endogenous Cannabinoids and Phytocannabinoids: Evidence for a Site Distinct from CB1 and CB2  
Douglas McHugh, Carolyn Tanner, Raphael Mechoulam, Roger G. Pertwee, and Ruth A. Ross  
441

Dexamethasone-Mediated Up-Regulation of Human CYP2A6 Involves the Glucocorticoid Receptor and Increased Binding of Hepatic Nuclear Factor 4α to the Proximal Promoter  
Tania Onica, Kathleen Nichols, Meghan Larin, Lorraine Ng, Ann Maslen, Zdenek Dvorak, Jean-Marc Pascussi, Marie-Josée Vilarem, Patrick Maurel, and Gordon M. Kirby  
451

Transport of Cisplatin by the Copper Efflux Transporter ATP7B  
Roohangiz Safaei, Shinji Otani, Barrett J. Larson, Michael L. Rasmussen, and Stephen B. Howell  
461

Cloning and Functional Expression of a Novel G Protein-Coupled Receptor for Adenine from Mouse Brain  
Ivar von Kügelgen, Anke C. Schiedel, Kristina Hoffmann, Bernt B. A. Alsdorf, Aliaa Abdelrahman, and Christa E. Müller  
469

Structural Analog of Sildenafil Identified as a Novel Corrector of the F508del-CFTR Trafficking Defect  
Renaud Robert, Graeme W. Carlile, Catalin Pavel, Na Liu, Suzana M. Anjos, Jie Liao, Yishan Luo, Donglei Zhang, David Y. Thomas, and John W. Hanrahan  
478

Reduced Expression of DNA Topoisomerase I in SF295 Human Glioblastoma Cells Selected for Resistance to Homocamptothecin and Diflomotecan  
Zhiyong Liao, Robert W. Robey, Josée Guirouith-Barbat, Kenneth K. W. To, Orsolya Polgar, Susan E. Bates, and Yves Pommier  
490
Impact of Targeting the Adenine- and Uracil-Rich Element of bcl-2 mRNA with Oligoribonucleotides on Apoptosis, Cell Cycle, and Neuronal Differentiation in SHSY-5Y Cells
Laura Papucci, Ewa Witort, Anna Maria Bevilacqua, Martino Donnini, Matteo Lulli, Elisabetta Borchi, Khalid S. A. Khabar, Alessio Tempestini, Andrea Lapucci, Nicola Schiavone, Angelo Nicolin, and Sergio Capaccioli

A Peroxisome Proliferator-Activated Receptor γ-Retinoic X Receptor Heterodimer Physically Interacts with the Transcriptional Activator PAX6 to Inhibit Glucagon Gene Transcription
Ralph Krätzer, Florian Fröhlich, Katrin Lepler, Michaela Schröder, Katharina Röher, Corinna Dickel, Madlen V. Tzvetkov, Thomas Quentin, Elke Oetjen, and Willhart Knepel

3H]Org 43553, the First Low-Molecular-Weight Agonistic and Allosteric Radioligand for the Human Luteinizing Hormone Receptor
Laura H. Heitman, Julia Oosterom, Kimberly M. Bonger, Cornelis M. Timmers, Peter H. G. Wiegerink, and Adriaan P. IJzerman

Multiple Binding Sites for Substrates and Modulators of Semicarbazide-Sensitive Amine Oxidases: Kinetic Consequences
Andrew Holt, David J. Smith, Laura Cendron, Giuseppe Zanotti, Adelio Rigo, and Maria Luisa Di Paolo

Functional Characterization of Bone Morphogenetic Protein Binding Sites and Smad1/5 Activation in Human Vascular Cells
Paul D. Upton, Lu Long, Richard C. Trembath, and Nicholas W. Morrell

Methyl 2-Cyano-3,11-dioxo-18β-olean-1,12-dien-30-oate Is a Peroxisome Proliferator-Activated Receptor-γ Agonist That Induces Receptor-Independent Apoptosis in LNCaP Prostate Cancer Cells
Sabitha Papineni, Sudhakar Chintharlapalli, and Stephen Safe

Mitogenic Effects of Cytokines on Smooth Muscle Are Critically Dependent on Protein Kinase A and Are Unmasked by Steroids and Cyclooxygenase Inhibitors
Anna M. Misior, Huandong Yan, Rodolfo M. Pascual, Deepak A. Deshpande, Reynold A. Panettieri, and Raymond B. Penn

3-Methylcholanthrene Displays Dual Effects on Estrogen Receptor (ER) α and ERβ Signaling in a Cell-Type Specific Fashion
Elin Swedenborg, Joëlle Rüegg, Anne Hillenweck, Stefan Rehnmark, Malin Hedengran Faulds, Daniel Zalko, Ingemar Pongratz, and Katarina Pettersson

Regulation of Lysophosphatidic Acid Receptor Expression and Function in Human Synoviocytes: Implications for Rheumatoid Arthritis?
Chenqi Zhao, Maria J. Fernandes, Glenn D. Prestwich, Mélanie Turgeon, John Di Battista, Timothy Clair, Patrice E. Poubelle, and Sylvain G. Bourgoin

Efavirenz Accelerates HIV-1 Reverse Transcriptase Ribonuclease H Cleavage, Leading to Diminished Zidovudine Excision
Jessica Radzio and Nicolas Sluis-Cremer

Regulation of Human 3α-Hydroxysteroid Dehydrogenase (AKR1C4) Expression by the Liver X Receptor α
Keith R. Stayrook, Pamela M. Rogers, Rajesh S. Savkur, Yongjun Wang, Chen Su, Gabor Varga, Xin Bu, Tao Wei, Sunil Nagpal, Xiaole Shirley Liu, and Thomas P. Burris

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

About the cover: Region- and cell type-specific loss of α1 subunit IR in forebrain-specific α1−/− mice. See the article by Zeller et al., on page 282 of this issue.