PERSPECTIVE
Baffled by Bafilomycin: An Anticancer Agent That Induces Hypoxia-Inducible Factor-1α Expression
Gregg L. Semenza

ACCELERATED COMMUNICATIONS
Nicotinic Acid-Induced Flushing Is Mediated by Activation of Epidermal Langerhans Cells
Zoltán Benyó, Andreas Gille, Clare L. Bennett, Björn E. Clausen, and Stefan Offermanns

[d-Trp⁸]-γ-Melanocyte-Stimulating Hormone Exhibits Anti-Inflammatory Efficacy in Mice Bearing a Nonfunctional MC1R (Recessive Yellow e/e Mouse)
Stephen J. Getting, Connie W. Lam, Giovanna Leoni, Felicity N. E. Gavins, Paolo Grieco, and Mauro Perretti

ARTICLES
Bafilomycin Induces the p21-Mediated Growth Inhibition of Cancer Cells under Hypoxic Conditions by Expressing Hypoxia-Inducible Factor-1α
Ji-Hong Lim, Jong-Wan Park, Myung-Suk Kim, Sang-Ki Park, Randall S. Johnson, and Yang-Sook Chun

Comparison of the Activities of the Truncated Halichondrin B Analog NSC 707389 (E7389) with Those of the Parent Compound and a Proposed Binding Site on Tubulin
Donnette A. Dabydeen, James C. Burnett, Ruoli Bai, Pascal Verdier-Pinard, Sarah J. H. Hickford, George R. Pettit, John W. Blunt, Murray H. G. Munro, Rick Gussio, and Ernest Hamel

Pharmacological Inhibition of Histone Deacetylases by Suberoylanilide Hydroxamic Acid Specifically Alters Gene Expression and Reduces Ischemic Injury in the Mouse Brain
Giuseppe Faraco, Tristano Pancani, Laura Formentini, Paolo Mascagni, Gianluca Fossati, Flavio Leoni, Flavio Moroni, and Alberto Chiarugi

Rapid and Robust Protection against Cocaine-Induced Lethality in Rats by the Bacterial Cocaine Esterase
Ziva D. Cooper, Diwahar Narasimhan, Roger K. Sunahara, Pawel Mierzejewski, Emily M. Jutkiewicz, Nicholas A. Larsen, Ian A. Wilson, Donald W. Landry, and James H. Woods

The symbols in the table of contents identify articles discussed in the Perspective.
Conformational Constraining of Inactive and Active States of a Seven Transmembrane Receptor by Metal Ion Site Engineering in the Extracellular End of Transmembrane Segment V


2,3,7,8-Tetrachlorodibenzo-p-dioxin and Epidermal Growth Factor Cooperatively Suppress Peroxisome Proliferator-Activated Receptor-γ1 Stimulation and Restore Focal Adhesion Complexes during Adipogenesis: Selective Contributions of Src, Rho, and Erk Distinguish These Overlapping Processes in C3H10T1/2 Cells

Xueqing Liu and Colin Jefcoate

Ginsenoside Re, a Main Phytosterol of Panax ginseng, Activates Cardiac Potassium Channels via a Nongenomic Pathway of Sex Hormones

Tetsushi Furukawa, Chang-Xi Bai, Asami Kihara, Eri Ozaki, Takashi Kavano, Yutaka Nakaya, Muhammad Awais, Moritoshi Sato, Yoshio Umezawa, and Junko Kurokawa

Stimulation of AMP-Activated Protein Kinase Is Essential for the Induction of Drug Metabolizing Enzymes by Phenobarbital in Human and Mouse Liver

Franck Rencurel, Marc Foretz, Michel R. Kaufmann, Deborah Stroka, Renate Looser, Isabelle Leclerc, Gabriela da Silva Xavier, Guy A. Rutter, Benoît Viollet, and Urs A. Meyer

Insights into the Cholecystokinin 2 Receptor Binding Site and Processes of Activation

Michaël R. Paillasse, Céline Deraeve, Philippe de Medina, Loubna Mhamdi, Gilles Favre, Marc Poiroit, and Sandrine Silvente-Poiriot

Eriocalyxin B Inhibits Nuclear Factor-κB Activation by Interfering with the Binding of Both p65 and p50 to the Response Element in a Noncompetitive Manner

Chung-Hang Leung, Susan P. Grill, Wing Lam, Wenli Gao, Han-Dong Sun, and Yung-Chi Cheng

Molecular Interaction of Serotonin 5-HT₂A Receptor Residues Phe339(6.51) and Phe340(6.52) with Superpotent N-Benzyl Phenethylamine Agonists

Michael R. Braden, Jason C. Parrish, John C. Naylor, and David E. Nichols

Dissecting the Roles of Checkpoint Kinase 1/CDC2 and Mitogen-Activated Protein Kinase Kinase 1/2/Extracellular Signal-Regulated Kinase 1/2 in Relation to 7-Hydroxystaurosporine-Induced Apoptosis in Human Multiple Myeloma Cells

Xin-Yan Pei, Weiqun Li, Yun Dai, Paul Dent, and Steven Grant

Structural Requirements of Transmembrane Domain 3 for Activation by the M₁ Muscarinic Receptor Agonists AC-42, AC-260584, Clozapine, and N-Desmethylclozapine: Evidence for Three Distinct Modes of Receptor Activation

Tracy A. Spalding, Jian-Nong Ma, Thomas R. Ott, Mikael Friberg, Abhishek Bajpai, Stefania Risso Bradley, Robert E. Davis, Mark R. Brann, and Ethan S. Burstein

Determinants of 1-Piperidinecarboxamide, N-[2-[[5-Amino-l-L-][4-(4-pyridinyl)-l-L-piperazinyl]-carbonyl]pentyllamino]-1-[(3,5-dibromo-4-hydroxyphenyl)methyl]-2-oxoethyl]-4-(1,4-dihydro-2-oxo-3(2H)-quinazolinyl) (BIBN4096BS) Affinity for Calcitonin Gene-Related Peptide and Amylin Receptors—The Role of Receptor Activity Modifying Protein 1

Debbie L. Hay, George Christopoulos, Arthur Christopoulos, and Patrick M. Sexton

cAMP Inhibits Transforming Growth Factor-β-Stimulated Collagen Synthesis via Inhibition of Extracellular Signal-Regulated Kinase 1/2 and Smad Signaling in Cardiac Fibroblasts

Xiaouqi Liu, Shu Qiang Sun, Aviv Hassid, and Rennolds S. Ostrom

Essential Role of C-Rel in Nitric-Oxide Synthase-2 Transcriptional Activation: Time-Dependent Control by Salicylate

Katarzyna A. Cieslik, Wu-Guo Deng, and Kenneth K. Wu

2,3-Butanedione Monoxime Affects Cystic Fibrosis Transmembrane Conductance Regulator Channel Function through Phosphorylation-Dependent and Phosphorylation-Independent Mechanisms: The Role of Bilayer Material Properties

Pablo Artigas, Subhi J. Al’Aref, E. Ashley Hobart, Lain F. Díaz, Masayuki Sakaguchi, Samuel Straw, and Olaf S. Andersen
Point Mutations in the Transmembrane Region of GABA\(_{B2}\) Facilitate Activation by the Positive Modulator \(N,N'\)-Dicyclopentyl-2-methylsulfanyl-5-nitro-pyrimidine-4,6-diamine (GS39783) in the Absence of the GABA\(_{B1}\) Subunit

Delphine S. Dupuis, Dinko Relkovic, Loic Lhuillier, Johannes Mosbacher, and Klemens Kaupmann

Role of the Agonist Binding Site in Up-Regulation of Neuronal Nicotinic \(\alpha\beta2\) Receptors

Masashi Kishi and Joe Henry Steinbach

Molecular Changes Evoked by Triethylenetetramine Treatment in the Extracellular Matrix of the Heart and Aorta in Diabetic Rats


The Mechanism of Activity-Dependent Sodium Channel Inhibition by the Antidepressants Fluoxetine and Desipramine

N. Lenkey, R. Karoly, J. P. Kiss, B. K. Szasz, E. S. Vizi, and A. Mike

Methamphetamine-Induced Sensitization Differentially Alters pCREB and ΔFosB throughout the Limbic Circuit of the Mammalian Brain

John McDaid, Martin P. Graham, and T. Celeste Napier

YM-244769, a Novel Na\(^{+}/\)Ca\(^{2+}\) Exchange Inhibitor That Preferentially Inhibits NCX3, Efficiently Protects against Hypoxia/Reoxygenation-Induced SH-SY5Y Neuronal Cell Damage

Takahiro Iwamoto and Satomi Kita

Analysis of the Dissociated Steroid RU24858 Does Not Exclude a Role for Inducible Genes in the Anti-Inflammatory Actions of Glucocorticoids

Joanna E. Chivers, Wei Gong, Elizabeth M. King, Joachim Seybold, Judith C. Mak, Louise E. Donnelly, Neil S. Holden, and Robert Newton

Endogenous Hepatic Expression of the Hepatitis B Virus X-Associated Protein 2 Is Adequate for Maximal Association with Aryl Hydrocarbon Receptor-90-kDa Heat Shock Protein Complexes

Brett D. Hollingshead, Rushang D. Patel, and Gary H. Perdew

The H\(^{+}\)-Linked Monocarboxylate Transporter (MCT1/SLC16A1): A Potential Therapeutic Target for High-Risk Neuroblastoma

Jun Fang, Quintin J. Quinones, Trevor L. Holman, Michael J. Morowitz, Qun Wang, Huaqing Zhao, Frank Sivo, John M. Maris, and Miriam L. Wahl

Neurotoxicity of Domoic Acid in Cerebellar Granule Neurons in a Genetic Model of Glutathione Deficiency


The Important Role of Bcrp (Abcg2) in the Biliary Excretion of Sulfate and Glucuronide Metabolites of Acetaminophen, 4-Methylumbelliferone, and Harmol in Mice


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