Contents

ARTICLES

1  The Gonadotrophin-Releasing Hormone Receptor of αT3-1 Pituitary Cells Regulates Cellular Levels of Both of the Phosphoinositide C-Linked G Proteins, Gαq and G11, Equally  Bukhtiar H. Shah and Graeme Milligan

8  Expression of a Cloned P2Y Purinergic Receptor that Couples to Phospholipase C  Theresa M. Filtz, Qing Li, José L. Boyer, Robert A. Nicholas, and T. Kendall Harden


24  Receptors for Pancreastatin in Rat Liver Membranes: Molecular Identification and Characterization by Covalent Cross-Linking  Victor Sánchez-Margalet, Miguel Valle, and Raimundo Gobena

30  Identification of the mRNA for the Novel α1D-Adrenoceptor and Two Other α1-Adrenoceptors in Vascular Smooth Muscle  Michael T. Piascik, Marta S. Smith, Edward E. Soltis, and Dianne M. Perez

41  Characterization of Endothelin Receptors in Mesangial Cells: Evidence for Two Functionally Distinct Endothelin Binding Sites  Michael S. Simonson and Alison Rooney

51  Intranigral Administration of D2 Dopamine Receptor Antisense Oligodeoxynucleotides Establishes a Role for Nigrostriatal D2 Autoreceptors in the Motor Actions of Cocaine  Christopher P. Silvia, George R. King, Tong H. Lee, Zeng-Yu Xue, Marc G. Caron, and Everett H. Ellinwood

Continued
58 Reduced Phosphorylation of Topoisomerase II in Etoposide-Resistant Human Leukemia K562 Cells
Mary K. Ritke, William P. Allan, Cheryl Fattman, Nurten N. Gunduz, and Jack C. Yalowich

67 1-β-D-Arabinofuranosylcytosine Activates Serine/Threonine Protein Kinases and c-jun Gene Expression in Phorbol Ester-Resistant Myeloid Leukemia Cells
Surender Kharbanda, Yutaka Emoto, Hiroshi Kisaki, Ahamed Saleem, and Donald Kufe

73 c-myc Down-regulation in Suramin-treated HL60 Cells Precedes Growth Inhibition but Does Not Trigger Differentiation
Noa Ben-Baruch, William C. Reinhold, Nadia Alexandrova, Ichiro Ichinose, Melissa Blake, Jane B. Trepel, and Maria Zajac-Kaye

79 Hepatocyte Nuclear Factor 3 is a Major Determinant of CYP2C6 Promoter Activity in Hepatoma Cells
Peter M. Shaw, Mary C. Weiss, and Milton Adesnik

88 Enzymatic Conversion of Retinaldehyde to Retinoic Acid by Cloned Murine Cytosolic and Mitochondrial Aldehyde Dehydrogenases
Mei Chen, Charles Achkar, and Lorraine J. Gudas

97 Up-regulation of Somatostatin Receptors by Epidermal Growth Factor and Gastrin in Pancreatic Cancer Cells
Cristina Vidal, Isabelle Rauly, Mustapha Zeggari, Nathalie Delesque, Jean-Pierre Esteve, Nathalie Saint-Laurent, Nicole Vaysse, and Christiane Susini

105 Assessment of the Allosteric Interactions of the Bisquaternary Heptane-1,7-bis(dimethyl-3′-phthalimidopropyl)ammonium Bromide at M₁ and M₂ Muscarine Receptors
A. Christopoulos and F. Mitchelson

115 The Cloned Neurotensin Receptor Mediates Cyclic GMP Formation when Coexpressed with Nitric Oxide Synthase cDNA
Barbara Stauch Slusher, Anna E. Zacco, John A. Maslanski, Tyrrell E. Norris, Michael W. McLane, W. Craig Moore, Norma E. Rogers, and Louis J. Ignarro

122 Both Extracellular and Transmembrane Residues Contribute to the Species Selectivity of the Neurokinin-1 Receptor Antagonist WIN 51708
Bruce S. Sachais and James E. Krause

129 Cyclothiazide Differentially Modulates Desensitization of α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid Receptor Splice Variants
Kathryn M. Partin, Doris K. Patneau, and Mark L. Mayer

139 Functional Receptors in Xenopus Oocytes for U-37883A, a Novel ATP-Sensitive K⁺ Channel Blocker: Comparison with Rat Insulinoma Cells
Eric Guillemare, Eric Honore, Jan De Weille, Michel Fosset, Michel Lazdunski, and Kaushik Meisheri

146 3α-Hydroxy-5β-pregn-20-one Sulfate: A Negative Modulator of the NMDA-Induced Current in Cultured Neurons
Mijeong Park-Chung, Fong-Sen Wu, and David H. Farb

continued
CONTENTS (cont'd)

151 9-Aminoacridines Act at a Site Different from that for Mg\(^{2+}\) in Blockade of the N-Methyl-d-Aspartate Receptor Channel  
Mark E. Nelson and Edson X. Albuquerque

161 Mechanisms Influencing Stimulatory Effects of Spermine at Recombinant N-Methyl-d-Aspartate Receptors  
Keith Williams

169 Cooperative Interactions between General Anesthetics and QX-222 within the Pore of the Acetylcholine Receptor Ion Channel  
James P. Dilger and Ana Maria Vidal

176 The Effects of Trypsin on ATP-sensitive Potassium Channel Properties and Sulfonylurea Receptors in the CRI-G1 Insulin-secreting Cell Line  
K. Lee, S. E. Ozanne, I. C. M. Rowe, C. N. Hales, and M. L. J. Ashford

186 Structure-Activity Relationships for the Formation of Secondary Radicals and Inhibition of Keratinocyte Proliferation by 9-Anthrones  
Patrick J. Hayden, Kathleen E. Free, and Colin F. Chignell

199 Pattern Recognition Classification of the Site of Nephrotoxicity Based on Metabolic Data Derived from Proton Nuclear Magnetic Resonance Spectra of Urine  

CORRECTION

211 Role of the \(\beta\) Subunit in Determining the Pharmacology of Human \(\gamma\)-Aminobutyric Acid Type A Receptors  

ANNOUNCEMENT

Effective January 1, 1995 all manuscripts for submission to MOLECULAR PHARMACOLOGY should be sent to:

Dr. Raymond J. Dingledine, Editor
Molecular Pharmacology
Emory University School of Medicine
5001 Rollins Research Center
Clifton Road
Atlanta, Georgia 30322-3090, U.S.A.