MOLECULAR PHARMACOLOGY

Contents

ACCELERATED COMMUNICATIONS

655 Novel Potent Inhibitor of Receptor-Activated Nonselective Cation Currents in HL-60 Cells
D. Krautwurst, J. Hescheler, D. Arndts, W. Lösel, R. Hammer, and G. Schultz

660 Isolation and Expression of a cDNA Coding for Rat Kidney Cytosolic Cysteine Conjugate β-Lyase
Sandra J. Perry, Miles A. Schofield, Marion Macfarlane, Edward A. Lock, Laurence J. King, G. Gordon Gibson, and Peter S. Goldfarb

ARTICLES

666 Development of Polyclonal Anti-D2 Dopamine Receptor Antibodies Using Sequence-Specific Peptides
Virginia A. Boundy, Robert R. Luedtke, Roman P. Artymyshyn, Thomas M. Filtz, and Perry B. Molinoff

677 Photoaffinity Labeling of Subtype 2 Angiotensin Receptor of Human Myometrium
Guy Servant, Guylain Boulay, Roger Bossé, Emanuel Escher, and Gaëtan Guillemette

684 δ-Opioid Receptor Activates cAMP Phosphodiesterase Activities in Neuroblastoma × Glioma NG108–15 Hybrid Cells
P. Y. Law and H. H. Loh

694 Differential Regulation of Muscarinic Receptor mRNA Levels in Neuroblastoma Cells by Chronic Agonist Exposure: A Comparative Polymerase Chain Reaction Study
Muriel C. Steel and Noel J. Buckley

Continued
CONTENTS (cont’d)

702 Variation in Human Thymidylate Synthase Is Associated with Resistance to 5-Fluoro-2'-deoxyuridine

Stephen T. Davis and Sondra H. Berger

709 Tamoxifen Stimulates Expression of the c-fos Proto-Oncogene in Rodent Uterus

John L. Kirkland, Lata Murthy, and George M. Stancel

715 Sequence Selectivity of Topoisomerase II DNA Cleavage Stimulated by Mitoxantrone Derivatives: Relationships to Drug DNA Binding and Cellular Effects

Paola De Isabella, Giovanni Capranico, Manlio Palumbo, Claudia Sissi, A. Paul Krapcho, and Franco Zunino

722 Marked Endogenous Activation of the CYP1A1 and CYP1A2 Genes in the Congenitally Jaundiced Gunn Rat

Jaime Kapitulnik and Frank J. Gonzalez

726 Effects of Agonists, Partial Agonists, and Antagonists on the Regulation of 5-Hydroxytryptamine2 Receptors in P11 Cells

Robert C. Ferry, Christopher D. Unsworth, and Perry B. Molinoff

734 Subsecond Modulation of Formyl Peptide-Linked Guanine Nucleotide-Binding Proteins by Guanosine 5’-O-(3-Thio)triphosphate in Permeabilized Neutrophils

Richard R. Neubig and Larry A. Sklar

741 Isolation of Glucagon Antagonists by Random Molecular Mutagenesis and Screening

Robert A. Smith, Robert Sisk, Peter Lockhart, Shannon Mathewes, Teresa Gilbert, Kathleen Walker, and James Piggot

749 Unique Binding Characteristics of Antipsychotic Agents Interacting with Human Dopamine D2A, D2B, and D3 Receptors

Ása Malmberg, David M. Jackson, Annemarie Eriksson, and Nina Mohell


M. S. Choudhary, S. Craigo, and B. L. Roth

762 Characterization of Bombesin Receptors Using a Novel, Potent, Radiolabeled Antagonist That Distinguishes Bombesin Receptor Subtypes

Samuel Mantey, Harold Frucht, David H. Coy, and Robert T. Jensen

775 Development of Natriuretic Peptide Analogs Selective for the Atrial Natriuretic Factor-R1A Receptor Subtype

Murielle Mimeault, Alain Fournier, James Féthiere, and André De Léan

783 Inhalational Anesthetic Actions on Voltage-Gated Ion Currents of Bovine Adrenal Chromaffin Cells

Joseph J. Pancrazio, Wyun Kon Park, and Carl Lynch III

Continued
CONTENTS (cont'd)

795  Indomethacin/Ibuprofen-like Anti-inflammatory Agents Selectively Potentiate the \( \gamma \)-Aminobutyric Acid-Antagonistic Effects of Several Norfloxacin-like Quinolone Antibacterial Agents on \([^{35}S]t\)-Butylbicyclophosphorothionate Binding  
Richard F. Squires and Else Saederup

801  Comparison of Interactions of \([^3H]Muscimol, t\)-Butylbicyclophosphorothionate and \([^3H]Flunitrazepam\) with Cloned \( \gamma \)-Aminobutyric Acid\(_{\alpha}\) Receptors of the \( \alpha_1\beta_2 \) and the \( \alpha_1\beta_2\gamma_2 \) Subtypes  
Jeff F. Pregenzer, Wha Bin Im, Donald B. Carter, and Darrell R. Thomsen

807  Modulation by Albumin of Neuronal Cholinergic Sensitivity  
Devorah Gurantz, Joseph F. Margiotta, Alec T. Harootunian, and Vincent E. Dionne

813  Pregnenolone Sulfate Potentiation of \( \text{N-Methyl-d-aspartate} \) Receptor Channels in Hippocampal Neurons  
Mark R. Bowby

820  Extracellular Localization of the Benzothiazepine Binding Domain of L-Type \( Ca^{2+} \) Channels  
Steffen Hering, Alexej Savchenko, Carsten Strübing, Marion Lakitsch, and Jörg Striessnig

827  Major Pathway of Imipramine Metabolism Is Catalyzed by Cytochromes P-450 1A2 and P-450 3A4 in Human Liver  
Antoinette Lemoine, Jean Charles Gautier, Daniel Azoulay, Liliane Kiffel, Claire Belloc, F. Peter Guengerich, Patrick Maurel, Philippe Beaune, and Jean Paul Leroux