

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 Gaétan Guillemette
- 684 δ -Opioid Receptor Activates cAMP Phosphodiesterase Activities in Neuroblastoma \times 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

MOLECULAR PHARMACOLOGY (MOL/ISSN 0026-895X) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly, two volumes a year, beginning in January and July, by Williams & Wilkins, 428 E. Preston St., Baltimore, MD 21202-3993. Second class postage paid at Baltimore, MD and at additional mailing offices. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 E. Preston St., Baltimore, MD 21202-3993. **Subscription Rates:** U.S.: *Personal* \$105; *Institutional* \$230; *Single copy* \$19. **Outside the U.S., except Japan:** *Personal* \$135; *Institutional* \$260; *Single copy* \$23. Foreign prices exclude Japan. See **Information for Subscribers** for detailed instructions. The GST Tax Number for Canadian subscribers is 123394371. Country of origin USA. PRICES ARE SUBJECT TO CHANGE. Indexed by *Index Medicus*, *Current Contents (Life Sciences)*, *Excerpta Medica*, and *Current Awareness in Biological Sciences*. Copyright © 1993 by The American Society for Pharmacology and Experimental Therapeutics.

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 D_{2A}, D_{2B}, and D₃ Receptors
Åsa Malmberg, David M. Jackson, Annemarie Eriksson, and Nina Mohell
- 755 A Single Point Mutation (Phe³⁴⁰ → Leu³⁴⁰) of a Conserved Phenylalanine Abolishes 4-[¹²⁵I]Iodo-(2,5-dimethoxy)phenylisopropylamine and [³H] Mesulergine But Not [³H]Ketanserin Binding to 5-Hydroxytryptamine₂ Receptors
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-R_{1A} 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 γ -Aminobutyric Acid-Antagonistic Effects of Several Norfloxacin-like Quinolone Antibacterial Agents on [³⁵S]*t*-Butylbicyclophosphorothionate Binding**
Richard F. Squires and
Else Saederup
- 801 **Comparison of Interactions of [³H]Muscimol, *t*-Butylbicyclophosphoro[³⁵S]thionate and [³H] Flunitrazepam with Cloned γ -Aminobutyric Acid_A Receptors of the $\alpha_1\beta_2$ and the $\alpha_1\beta_2\gamma_2$ Subtypes**
Jeff F. Pregonzer, 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 *N*-Methyl-D-aspartate Receptor Channels in Hippocampal Neurons**
Mark R. Bowlby
- 820 **Extracellular Localization of the Benzothiazepine Binding Domain of L-Type Ca²⁺ 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