

## Contents

### ACCELERATED COMMUNICATIONS

- 655      Recombinant Endothelial Nitric Oxide Synthase:  
Post-translational Modifications in a Baculovirus  
Expression System      Liliana Busconi and  
Thomas Michel

### ARTICLES

- 660      Characterization of the Interaction of  
Diacylpiperazine Antagonists with the Human  
Neurokinin-1 Receptor: Identification of a Common  
Binding Site for Structurally Dissimilar  
Antagonists      Margaret A. Cascieri,  
Lin-Lin Shiao, Sander G. Mills,  
Malcolm MacCoss,  
Christopher J. Swain, Hong Yu,  
Elzbieta Ber, Sharon Sadowski,  
Mu Tsu Wu, Catherine D. Strader,  
and Tung Ming Fong
- 666      Sequestration and Recycling of  $\beta_2$ -Adrenergic  
Receptors Permit Receptor Resensitization      Susanne Pippig,  
Sabine Andexinger, and  
Martin J. Lohse
- 677      Regulation of the Constitutive Expression of the  
Human *CYP1A2* Gene: *Cis* Elements and Their  
Interactions with Proteins      Injae Chung and Edward Bresnick
- 686      Effects of Chromium on Basal and Insulin-Induced  
Tyrosine Phosphorylation in H4 Hepatoma Cells:  
Comparison with Phorbol-12-myristate-13-acetate  
and Sodium Orthovanadate      Edward J. Yurkow and  
Geumsoo Kim
- 696      Topoisomerase II $\alpha$  Promoter *Trans*-Activation  
Early in Monocytic Differentiation of HL-60  
Human Leukemia Cells      David J. Fraser, Tessa L. Brandt,  
and David J. Kroll

*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 for 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*, *Reference Update/Research Information Systems*, and *Current Awareness in Biological Sciences*. Copyright © 1995 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

- 707 Comparison of Fura-2 Imaging and Electrophysiological Analysis of Murine Calcium Channel  $\alpha 1$  Subunits Coexpressed with Novel  $\beta 2$  Subunit Isoforms Enrique Massa, Kevin M. Kelly, David I. Yule, Robert L. Macdonald, and Michael D. Uhler
- 717 Novel Subpopulation of Neuronal Acetylcholine Receptors Among Those Binding  $\alpha$ -Bungarotoxin Phyllis C. Pugh, Roderick A. Corriveau, William G. Conroy, and Darwin K. Berg
- 726 Adaptive Supersensitivity and the  $\text{Na}^+/\text{K}^+$  Pump in the Guinea Pig Vas Deferens: Time Course of the Decline in the  $\alpha 2$  Subunit K. M. Hershman, D. A. Taylor, and W. W. Fleming
- 730 Cloning and Expression of an Endothelin Receptor Subtype B from Human Prostate that Mediates Contraction Maria L. Webb, Chia-Ching Chao, Marguerite Rizzo, Robert A. Shapiro, Michael Neubauer, Eddie C. K. Liu, Catherine R. Aversa, Russell J. Brittain, and Brent Treiger
- 738 Antibodies to the Cloned  $\mu$ -Opioid Receptor Detect Various Molecular Weight Forms in Areas of Mouse Brain J. Garzón, J. L. Juarros, M. A. Castro, and P. Sánchez-Blázquez
- 745 Tau Phosphorylation in Brain Slices: Pharmacological Evidence for Convergent Effects of Protein Phosphatases on Tau and Mitogen-Activated Protein Kinase Timothy D. Garver, George A. Oyler, Katherine A. Harris, Rathnagiri Polavarapu, Zahi Damuni, Ralph A. W. Lehman, and Melvin L. Billingsley
- 757 Nitric Oxide-Induced Apoptosis in RAW 264.7 Macrophages Is Antagonized by Protein Kinase C- and Protein Kinase A-Activating Compounds Udo K. Meßmer, Eduardo G. Lapetina, and Bernhard Brüne
- 766 Protein-Independent Lead Permeation Through Myelin Lipid Liposomes Ricardo S. Díaz and Jaime Monreal
- 772  $\beta$ -Adrenoceptor- $\text{G}_{\alpha s}$  Coupling Decreases with Age in Rat Aorta Hakan Gurdal, Eitan Friedman, and Mark D. Johnson
- 779 Selective Labeling of the Dopamine Transporter by the High Affinity Ligand  $3\beta$ -(4-[ $^{125}\text{I}$ ]iodophenyl)-tropane-2 $\beta$ -carboxylic Acid Isopropyl Ester J. W. Boja, J. L. Cadet, T. A. Kopajtic, J. Lever, H. H. Seltzman, C. D. Wyrick, A. H. Lewin, P. Abraham, and F. I. Carroll
- 787 Mastoparan Increases the Intracellular Free Calcium Concentration in Two Insulin-Secreting Cell Lines by Inhibition of ATP-Sensitive Potassium Channels Geoffrey T. Eddlestone, Mitsuhsu Komatsu, Linming Shen, and Geoffrey W. G. Sharp

Continued

CONTENTS (cont'd)

- 798 Divergent Structural Requirements Exist for Calcitonin Receptor Binding Specificity and Adenylate Cyclase Activation  
Souheir Houssami, David M. Findlay, Catherine L. Brady, T. John Martin, Richard M. Eppard, Emma E. Moore, Eigo Murayama, Tatsuya Tamura, Ronald C. Orłowski, and Patrick M. Sexton
- 810 Inhibition of Human 5-Phosphoribosyl-1-pyrophosphate Synthetase by 4-Amino-8-( $\beta$ -D-ribofuranosylamino)pyrimido[5,4-*d*]pyrimidine-5'-monophosphate: Evidence for Interaction at the ADP Allosteric Site  
David W. Fry, Michael A. Becker, and Robert L. Switzer
- 816 Metabolic Diversity and Antiviral Activities of Acyclic Nucleoside Phosphonates  
Philip Aduma, Michele C. Connelly, Ranga V. Srinivas, and Arnold Fridland
- 823 Ethylene Glycol Bis( $\beta$ -aminoethyl ether)-*N,N,N',N'*-tetraacetic Acid (EGTA) and the Tyrphostin ST271 Inhibit Phospholipase C in Human Platelets by Preventing  $\text{Ca}^{2+}$  Entry  
Steve P. Watson, Alastair Poole, and Judith Asselin
- 831 Novel Potent and Selective Inhibitors of Inducible Nitric Oxide Synthase  
Masaki Nakane, Vered Klinghofer, Jane E. Kuk, Jennifer L. Donnelly, Gerald P. Budzik, Jennifer S. Pollock, Fatima Basha, and George W. Carter
- 835 Stimulation of Type II Adenylyl Cyclase by Chemoattractant Formyl Peptide and C5a Receptors  
Rachel C. Tsu, Rodger A. Allen, and Yung H. Wong
- 842 Direct Block of Calcium Channels by Dioctanoylglycerol in Pregnant Rat Myometrial Cells  
Masumi Kusaka and Nicholas Sperelakis
- 848 Modulation by  $\mu$ -Opioid Agonists of Guanosine-5'-O-(3-[ $^{35}\text{S}$ ]thio)triphosphate Binding to Membranes from Human Neuroblastoma SH-SY5Y Cells  
John R. Traynor and Stefan R. Nahorski
- 855 Extracellular ATP Stimulates Adenylyl Cyclase and Phospholipase C Through Distinct Purinoceptors in NG108-15 Cells  
Isao Matsuoka, Qian Zhou, Hiromi Ishimoto, and Hironori Nakanishi
- 863 Unusual Carbachol Responses in RINm5F Cells: Evidence for a "Distal" Site of Action in Stimulus-Secretion Coupling  
Shao Hua Tang, Gordon C. Yaney, and Geoffrey W. G. Sharp
- 871 Differential Activation of Human Gastrin-Releasing Peptide Receptor-Mediated Responses by Bombesin Analogs  
James M. Wu, Danee O. Hoang, and Richard I. Feldman
- 882 Erratum