

Contents

ARTICLES

- 1061 γ -Aminobutyric Acid Type A Receptors in the Rat Brain Can Contain Both γ 2 and γ 3 Subunits, but γ 1 Does not Exist in Combination with Another γ Subunit
Kathleen Quirk, Nigel P. Gillard, C. Ian Ragan, Paul J. Whiting, and Ruth M. McKernan
- 1071 Introduction of Purified α_{2A} -Adrenergic Receptors into Uniformly Oriented, Unilamellar Phospholipid Vesicles: Productive Coupling to G Proteins but Lack of Receptor-Dependent Ion Transport
Jeffrey R. Keefer, Jodi Nunnari, I. H. Pang, and Lee E. Limbird
- 1082 Desensitization of the Canine A_{2a} Adenosine Receptor: Delineation of Multiple Processes
Timothy M. Palmer, Thomas W. Gettys, Kenneth A. Jacobson, and Gary L. Stiles
- 1095 Antagonist-Mediated Down-regulation of 5-Hydroxytryptamine Type 2 Receptor Gene Expression: Modulation of Transcription
Miklos Toth and Thomas Shenk
- 1101 A Binding Site Model and Structure-Activity Relationships for the Rat A_3 Adenosine Receptor
Philip J. M. van Galen, Andrew H. Van Bergen, Carola Gallo-Rodriguez, Neli Melman, Mark E. Olah, Ad P. IJzerman, Gary L. Stiles, and Kenneth A. Jacobson
- 1112 The Marked Disparity between the Sizes of Angiotensin Type 2 Receptors from Different Tissues Is Related to Different Degrees of *N*-Glycosylation
Guy Servant, David T. Dudley, Emanuel Escher, and Gaétan Guillemette
- 1119 2',3'-Dideoxycytidine Alters Calcium Buffering in Cultured Dorsal Root Ganglion Neurons
John L. Werth, Bing Zhou, Louise M. Nutter, and Stanley A. Thayer
- 1125 Isolation and Characterization of the Rat 5-Hydroxytryptamine Type 2 Receptor Promoter: Constitutive and Inducible Activity in the Myometrial Smooth Muscle Cells
Yun-Long Du, Brian D. Wilcox, Milt Teitler, and John J. Jeffrey

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*, *Reference Update/Research Information Systems*, and *Current Awareness in Biological Sciences*. Copyright © 1994 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

- 1132 Palytoxin Induces K⁺ Efflux from Yeast Cells Expressing the Mammalian Sodium Pump Georgios Scheiner-Bobis, Dagmar Meyer zu Heringdorf, Matthias Christ, and Ernst Habermann
- 1137 Decreased Accumulation as a Mechanism of Resistance to *cis*-Diamminedichloroplatinum(II) in Cervix Carcinoma HeLa Cells: Relation to DNA Repair Chuck C.-K. Chao
- 1145 Characterization of Rhodamine 123 Binding to P-Glycoprotein in Human Multidrug-Resistant Cells Bakela Nare, Roger K. Prichard, and Elias Georges
- 1153 Dual Regulation of P450EF Expression via the Aryl Hydrocarbon Receptor and Protein Stabilization in C3H/10T1/2 Cells Üzen Savas and Colin R. Jefcoate
- 1160 Positive Modulation of Intracellular Ca²⁺ Levels by Adenosine A_{2b} Receptors, Prostacyclin, and Prostaglandin E₁ via a Cholera Toxin-Sensitive Mechanism in Human Erythroleukemia Cells Igor Feoktistov, John J. Murray, and Italo Biaggioni
- 1168 α_2 -Adrenergic Receptors of the α_{2C} Subtype Mediate Inhibition of Norepinephrine Release in Human Kidney Cortex Anne-Ulrike Trendelenburg, Norbert Limberger, and Lars C. Rump
- 1177 L-Cysteine Sulfinic Acid as an Endogenous Agonist of a Novel Metabotropic Receptor Coupled to Stimulation of Phospholipase D Activity Valerie Boss, Karen M. Nutt, and P. Jeffrey Conn
- 1183 Coupling of the Type A Endothelin Receptor to Multiple Responses in Adult Rat Cardiac Myocytes Randa Hilal-Dandan, Dan T. Merck, Jason P. Lujan, and Laurence L. Brunton
- 1191 Multisite Interactions of Receptors and G Proteins: Enhanced Potency of Dimeric Receptor Peptides in Modifying G Protein Function Susan M. Wade, Hiroko Mori Dalman, Shang-Zhao Yang, and Richard R. Neubig
- 1198 Modulation of L-Type Ca²⁺ Channels in Clonal Rat Pituitary Cells by Membrane Depolarization J. Liu, R. Bangalore, A. Rutledge, and D. J. Triggle
- 1207 Differential Inhibition of Protein Kinase C Isozymes by UCN-01, a Staurosporine Analogue Caroline M. Seynaeve, Marcelo G. Kazanietz, Peter M. Blumberg, Edward A. Sausville, and Peter J. Worland
- 1215 Insulin-like Growth Factor-I Induces a Rapid Increase in Calcium Currents and Spontaneous Membrane Activity in Clonal Pituitary Cells Richard H. Selinfreund and Leslie A. C. Blair
- 1221 Inhibition of Phosphoprotein Phosphatases Blocks Metabotropic Glutamate Receptor Effects in the Rat Nucleus Tractus Solitarii Steven R. Glaum and Richard J. Miller

Continued

CONTENTS (cont'd)

- 1227 **Pharmacological Characterization of Five Cloned Voltage-Gated K⁺ Channels, Types Kv1.1, 1.2, 1.3, 1.5, and 3.1, Stably Expressed in Mammalian Cell Lines**
Stephan Grissmer, Angela N. Nguyen, Jayashree Aiyar, Douglas C. Hanson, Robert J. Mather, George A. Gutman, Michael J. Karmilowicz, David D. Auperin, and K. George Chandy
- 1235 **Effects of Alcohols and Volatile Anesthetics on the Activation of Nicotinic Acetylcholine Receptor Channels**
Yi Liu, James P. Dilger, and Ana Maria Vidal
- 1242 **Aminopyridine Block of Kv1.1 Potassium Channels Expressed in Mammalian Cells and *Xenopus* Oocytes**
Neil A. Castle, Sandra Fadous, Diomedes E. Logothetis, and Ging Kuo Wang
- 1253 **Comparative Cytostatic Activity of Different Antiherpetic Drugs against Herpes Simplex Virus Thymidine Kinase Gene-Transfected Tumor Cells**
Jan Balzarini, Christina Bohman, Richard T. Walker, and Erik De Clercq
- 1259 **Catecholestrogens as Mediators of Carcinogenesis: Correlation of Aromatic Hydroxylation of Estradiol and Its Fluorinated Analogs with Tumor Induction in Syrian Hamsters**
A. C. Stalford, J. L. Maggs, T. L. Gilchrist, and B. K. Park
- 1268 **The Acidic Groups of the Neocarzinostatin Protein Play an Important Role in Its Biological Activity**
Frank Schönlau and Wolfgang Köhnlein
- 1273 **Bioactivation of Arachidonic Acid by the Cytochrome P450 Monooxygenases of Guinea Pig Lung: The Orthologue of Cytochrome P450 2B4 is Solely Responsible for Formation of Epoxyeicosatrienoic Acids**
Leah C. Knickle and John R. Bend
- 1281 **Selective Inhibition by Ethanol of the Type 1 Facilitative Glucose Transporter (GLUT1)**
Sharon Wald Krauss, Ivan Diamond, and Adrienne S. Gordon
- 1287 **Interactions of Dihydralazine with Cytochromes P4501A: A Possible Explanation for the Appearance of Anti-Cytochrome P4501A2 Autoantibodies**
Mohamed Bourdi, Marina Tinel, Philippe H. Beaune, and Dominique Pessayre

INDEXES

- 1296 **Subject Index for Volume 45**
- 1301 **Author Index for Volume 45**