MOLECULAR PHARMACOLOGY

Contents

ACCELERATED COMMUNICATIONS

907	Multiple Sulfonylurea-Sensitive Potassium Channels: A Novel Subtype Modulated by Dopamine	Yong-Jian Lin, Gabriela J. Greif, and Jonathan E. Freedman
911	Cloning and Expression of a Human Ah Receptor cDNA	Kristine M. Dolwick, Jennifer V. Schmidt, Lucy A. Carver, Hollie I. Swanson, and Christopher A. Bradfield
	ARTICLES	
918	Cloning and Characterization of the Opossum Kidney Cell D1 Dopamine Receptor: Expression of Identical D1A and D1B Dopamine Receptor mRNAs in Opossum Kidney and Brain	S. Russell Nash, Nathalie Godinot, and Marc G. Caron
926	Heterogeneous Expression of α_1 -Adrenoceptor Subtypes among Rat Nephron Segments	Fang Feng, Peter W. Abel, Margaret Scofield, Fengming Liu, Dennis W. Wolff, and William B. Jeffries
934	Point Mutation in the Seventh Hydrophobic Domain of the Human Thromboxane A ₂ Receptor Allows Discrimination between Agonist and Antagonist Binding Sites	Colin D. Funk, Lucinda Furci, Niamh Moran, and Garret A. Fitzgerald
940	Agonist-Induced Down-Regulation and Antagonist-Induced Up-Regulation of m_2 - and m_3 -Muscarinic Acetylcholine Receptor mRNA and Protein in Cultured Cerebellar Granule Cells	Fumihiko Fukamauchi, Paul A. Saunders, Christopher Hough, and De-Maw Chuang

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 © 1993 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

950	Multiple Mechanisms for Desensitization of A2a Adenosine Receptor-Mediated cAMP Elevation in Rat Pheochromocytoma PC12 Cells	Yijuang Chern, Hsing-Lin Lai, Jim C. Fong, and Yu Liang
959	Expression of Endothelin Receptor Subtypes in Rabbit Saphenous Vein	Maria L. Webb, Eddie C. K. Liu, Hossain Monshizadegan, Chia-ching Chao, Jean Lynch, Susan M. Fisher, and Patricia M. Rose
966	Identification of a 27-kDa High Affinity Phenylalkylamine-Binding Polypeptide as the σ_1 Binding Site by Photoaffinity Labeling and Ligand- Directed Antibodies	Fabian F. Moebius, Gregory G. Burrows, Markus Hanner, Eduard Schmid, Jörg Striessnig, and Hartmut Glossmann
972	Peptide α -Amidation and Peptidylglycine α -Hydroxylating Monooxygenase: Control by Disulfiram	Gregory P. Mueller, E. Jean Husten, Richard E. Mains, and Betty A. Eipper
981	Mechanisms Underlying Developmental Changes in the Expression of Metabotropic Glutamate Receptors in Cultured Cerebellar Granule Cells: Homologous Desensitization and Interactive Effects Involving N-Methyl-D-aspartate Receptors	E. Aronica, P. Dell'Albani, D. F. Condorelli, F. Nicoletti, N. Hack, and R. Balázs
990	Regional Distribution and Expression Modulation of Cytochrome P-450 and Epoxide Hydrolase mRNAs in the Rat Brain	Benoit Schilter and Curtis J. Omiecinski
997	Growth Hormone and Vitamin A Induce P4502C7 mRNA Expression in Primary Rat Hepatocytes	Stefan Westin, Agneta Mode, Michael Murray, Ruhong Chen, and Jan-Åke Gustafsson
1003	Novel, Negatively Charged, Human Serum Albumins Display Potent and Selective <i>in Vitro</i> Anti-Human Immunodeficiency Virus Type 1 Activity	Robert W. Jansen, Dominique Schols, Rudi Pauwels, Eric de Clercq, and D. K. F. Meijer
1008	Structure-Activity Relationships for Cannabinoid Receptor-Binding and Analgesic Activity: Studies of Bicyclic Cannabinoid Analogs	Lawrence S. Melvin, George M. Milne, M. Ross Johnson, Babu Subramaniam, Gerald H. Wilken, and Allyn C. Howlett
1016	Splice Variant of the Somatostatin Receptor 2 Subtype, Somatostatin Receptor 2B, Couples to Adenylyl Cyclase	Terry Reisine, Haeyoung Kong, Karen Raynor, Hideki Yano, Jun Takeda, Kazuki Yasuda, and Graeme I. Bell
1021	Inhibition of Adenosine Uptake by Ethanol Is Specific for One Class of Nucleoside Transporters	Sharon Wald Krauss, Roopa B. Ghirnikar, Ivan Diamond, and Adrienne S. Gordon

CONTENTS (cont'd)

1027	Modulation of Rat Thymocyte Proliferative Response Through the Inhibition of Different Cyclic Nucleotide Phosphodiesterase Isoforms by Means of Selective Inhibitors and cGMP-Elevating Agents	P. Marcoz, A. F. Prigent, M. Lagarde, and G. Némoz
1036	Pharmacological Studies on Novel Neurotensin Mimetics: Discovery of a Pharmacologically Unique Agent Exhibiting Concentration-Dependent Dual Effects as Antagonist and Agonist	Bernadette Cusack, Elliott Richelson, Yuan-Ping Pang, Javid Zaidi, and Alan P. Kozikowski
1041	Pharmacological Characterization of Stably Transfected Na ⁺ /H ⁺ Antiporter Isoforms Using Amiloride Analogs and a New Inhibitor Exhibiting Anti-ischemic Properties	L. Counillon, W. Scholz, H. J. Lang, and J. Pouysségur
1046	Pharmacological Characterization of α -Bungarotoxin-Sensitive Acetylcholine Receptors Immunoisolated from Chick Retina: Contrasting Properties of α 7 and α 8 Subunit-Containing Subtypes	René Anand, Xiao Peng, Juan J. Ballesta, and Jon Lindstrom
1051	Physostigmine Block of Ion Channels Activated by Acetylcholine in BC3H1 Cells	Ruth E. Wachtel
1056	The Effects of Isoflurane on Acetylcholine Receptor Channels. 2. Currents Elicited by Rapid Perfusion of Acetylcholine	James P. Dilger, Roger S. Brett, and Hiren I. Mody
1064	Antihelicase Action of DNA-Binding Anticancer Agents: Relationship to Guanosine-Cytidine Intercalator Binding	Nicholas R. Bachur, Robin Johnson, Fang Yu, Robert Hickey, Nancy Applegren, and Linda Malkas
1070	N -(Phosphonacetyl)-L-aspartate Synergistically Enhances the Cytotoxicity of 5-Fluorouracil/ Interferon- α -2a against Human Colon Cancer Cell Lines	Scott Wadler, Xun Mao, Rajesh Bajaj, Steven Hallam, and Edward L. Schwartz
1077	Role of Brain Cytochrome P450 in Regulation of the Level of Anesthetic Steroids in the Brain	Maria Strömstedt, Margaret Warner, Carol D. Banner, Paul C. MacDonald, and Jan-Åke Gustafsson