

CONTENTS

ACCELERATED COMMUNICATION

- MARK W. HAMBLIN AND MARK A. METCALF. Primary Structure and Functional Characterization of a Human 5-HT_{1D} Type Serotonin Receptor 143

ARTICLES

- PÄR GERWINS AND BERTIL B. FREDHOLM. Glucocorticoid Receptor Activation Leads to Up-regulation of Adenosine A₁ Receptors and Down-Regulation of Adenosine A₂ Responses in DDT₁ MF-2 Smooth Muscle Cells 149 x
- BONNIE F. POBINER, JOHN K. NORTHUP, PAUL H. BAUER, ELAINE D. FRASER, AND JAMES C. GARRISON. Inhibitory GTP-Binding Regulatory Protein G_{i3} Can Couple Angiotensin II Receptors to Inhibition of Adenylyl Cyclase in Hepatocytes 156
- CHENG-DIAN WANG, MELISSA A. BUCK, AND CLAIRE M. FRASER. Site-Directed Mutagenesis of α_{2A} -Adrenergic Receptors: Identification of Amino Acids Involved in Ligand Binding and Receptor Activation by Agonists 168
- SERGHEI VOITENKO, SERGHEI PURNYN, IRINA OMELTCHENKO, GEORGII G. DYADYUSHA, BORIS ZHOROV, NINA BROVTSINA, AND VLADIMIR SKOK. Effect of (+)-Sparteine on Nicotinic Acetylcholine Receptors in the Neurons of Rat Superior Cervical Ganglion 180
- XAVIER VIGÉ, ERMINIO COSTA, AND BRADLEY C. WISE. Mechanism of Nerve Growth Factor mRNA Regulation by Interleukin-1 and Basic Fibroblast Growth Factor in Primary Cultures of Rat Astrocytes 186
- LINDA H. FOSSOM, CHRISTOPHER D. CARLSON, AND A. WILLIAM TANK. Stimulation of Tyrosine Hydroxylase Gene Transcription Rate by Nicotine in Rat Adrenal Medulla 193
- THOMAS A. KOCAREK, ERIN G. SCHUETZ, AND PHILIP S. GUZELIAN. Selective Induction of Cytochrome P450e by Kepone (Chlordecone) in Primary Cultures of Adult Rat Hepatocytes 203
- ANTOINETTE LEMOINE, DAVID E. WILLIAMS, THIERRY CRESTEIL, AND JEAN-PAUL LEROUX. Hormonal Regulation of Microsomal Flavin-Containing Monooxygenase: Tissue-Dependent Expression and Substrate Specificity 211
- KAREN J. MARTELL, KOSTAS P. VATSIS, AND WENDELL W. WEBER. Molecular Genetic Basis of Rapid and Slow Acetylation in Mice 218
- LESTER M. BORNHEIM AND MARIA ALMIRA CORREIA. Purification and Characterization of the Major Hepatic Cannabinoid Hydroxylase in the Mouse: A Possible Member of the Cytochrome P-450IIC Subfamily 228
- V. SIMONNEAUX, M. EBADI, AND D. B. BYLUND. Identification and Characterization of α_{2d} -Adrenergic Receptors in Bovine Pineal Gland 235 x

Continued

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly by Williams & Wilkins, 428 East Preston Street, Baltimore, MD 21202-3993. Price per year: USA individual rate \$90; all other countries, surface mail \$120. USA institutional rate \$195, all other countries, surface mail \$225. Single copies \$17 (\$20 foreign). (Prices subject to change.) Indexed by *Index Medicus*, *Current Contents/Life Sciences*, *Excerpta Medica*, and *Current Awareness in Biological Sciences*. All subscription orders should be addressed to Molecular Pharmacology, 428 East Preston Street, Baltimore, MD 21202-3993.

Second Class Postage paid at Baltimore, MD, and at additional mailing offices. The GST Tax number for Canadian subscribers is 123394371. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1991 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

S. V. PENELOPE JONES, CRAIG J. HEILMAN, AND MARK R. BRANN. Functional Responses of Cloned Muscarinic Receptors Expressed in CHO-K1 Cells	242
KAREN RAYNOR, HUNG-LI WANG, MARC DICHTER, AND TERRY REISINE. Subtypes of Brain Somatostatin Receptors Couple to Multiple Cellular Effector Systems	248
ARLENE R. HUGHES, GARY ST. J. BIRD, JOHNNY F. OBIE, OLE THASTRUP, AND JAMES W. PUTNEY, JR. Role of Inositol (1,4,5)Trisphosphate in Epidermal Growth Factor-Induced Ca ²⁺ Signaling in A431 Cells	254
DAVID M. LOVINGER AND GEOFFREY WHITE. Ethanol Potentiation of 5-Hydroxytryptamine ₃ Receptor-Mediated Ion Current in Neuroblastoma Cells and Isolated Adult Mammalian Neurons	263
MASATO MITSUHASHI, TAKAKO MITSUHASHI, PAUL F. DAZIN, AND DONALD G. PAYAN. Agonistic Activities of Histamine-Albumin Conjugates at Histamine H ₂ Receptors on Human HL-60 Promyelocytic Leukemia Cells	271
DOUGLAS STICKLE AND ROGER BARBER. Comparisons of the Combined Contributions of Agonist Binding Frequency and Intrinsic Efficiency to Receptor-Mediated Activation of Adenylate Cyclase	276
PASCAL LEGENDRE AND GARY L. WESTBROOK. Ifenprodil Blocks <i>N</i> -Methyl-D-aspartate Receptors by a Two-Component Mechanism	289
M. TAGLIALATELA, A. M. J. VANDONGEN, J. A. DREWE, R. H. JOHO, A. M. BROWN, AND G. E. KIRSCH. Patterns of Internal and External Tetraethylammonium Block in Four Homologous K ⁺ Channels	299
DORA M. T. POLITI AND MICHAEL A. ROGAWSKI. Glyburide-Sensitive K ⁺ Channels in Cultured Rat Hippocampal Neurons: Activation by Cromakalim and Energy-Depleting Conditions	308
DAAN NOORT, ELLEN A. MEIJER, THEO J. VISSER, JOHN H. N. MEERMAN, GIJS A. VAN DER MAREL, JACQUES H. VAN BOOM, AND GERARD J. MULDER. Selective Inhibition of Glucuronidation by 2,2,2-Triphenylethyl-UDP in Isolated Rat Hepatocytes: Conjugation of Harmol, 3,3',5-Triiodothyronine, and <i>N</i> -Hydroxy-2-acetylaminofluorene	316
DAVID C. KOSSOR, SHIRO KOMINAMI, SHIGEKI TAKEMORI, AND HOWARD D. COLBY. Role of the Steroid 17 α -Hydroxylase in Spironolactone-Mediated Destruction of Adrenal Cytochrome P-450	321
D. F. CULLY AND P. S. PARESS. Solubilization and Characterization of a High Affinity Ivermectin Binding Site from <i>Caenorhabditis elegans</i>	326

Copyright © 1991 by The American Society for Pharmacology and Experimental Therapeutics
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of this article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (21 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1986 articles are the same as those shown for current articles.