

CONTENTS

ACCELERATED COMMUNICATIONS

OLIVIER MANZONI, LAURENT FAGNI, JEAN-PHILIPPE PIN, FRANÇOIS RASSENDREN, FRANCIS POULAT, FRITZ SLADCEK, AND JOËL BOCKAERT. (<i>trans</i>)-1-Amino-cyclopentyl-1,3-dicarboxylate Stimulates Quisqualate Phosphoinositide-Coupled Receptors but Not Ionotropic Glutamate Receptors in Striatal Neurons and <i>Xenopus</i> Oocytes ..	1
ULRICH FÖRSTERMANN, LEE D. GORSKY, JENNIFER S. POLLOCK, KUNIO ISHII, HARALD H. W. SCHMIDT, MICHAEL HELLER, AND FERID MURAD. Hormone-Induced Biosynthesis of Endothelium-Derived Relaxing Factor/Nitric Oxide-like Material in N1E-115 Neuroblastoma Cells Requires Calcium and Calmodulin	7
GENG-CHANG YEH, DOUGLAS W. BONHAUS, AND JAMES O. MCNAMARA. Evidence that Zinc Inhibits <i>N</i> -Methyl-D-aspartate Receptor-Gated Ion Channel Activation by Non-competitive Antagonism of Glycine Binding	14
M. E. GOLDMAN, G. S. SALITURO, J. A. BOWEN, J. M. WILLIAMSON, D. L. ZINK, W. A. SCHLEIF, AND E. A. EMINI. Inhibition of Human Immunodeficiency Virus-1 Reverse Transcriptase Activity by Rubromycins: Competitive Interaction at the Template · Primer Site	20
KATHRYN T. KNECHT, BLAIR U. BRADFORD, RONALD P. MASON, AND RONALD G. THURMAN. <i>In Vivo</i> Formation of a Free Radical Metabolite of Ethanol	26

ARTICLES

MELVYN BAEZ, LEI YU, AND MARLENE L. COHEN. Pharmacological and Molecular Evidence that the Contractile Response to Serotonin in Rat Stomach Fundus Is Not Mediated by Activation of the 5-Hydroxytryptamine _{1C} Receptor	31
KARSTEN WASSERMANN, JUDITH MARKOVITS, CHRISTINE JAXEL, GIOVANNI CAPRANICO, KURT W. KOHN, AND YVES POMMIER. Effects of Morpholinyl Doxorubicins, Doxorubicin, and Actinomycin D on Mammalian DNA Topoisomerases I and II	38
BARRIE ASHBY. Novel Mechanism of Heterologous Desensitization of Adenylate Cyclase: Prostaglandins Bind with Different Affinities to Both Stimulatory and Inhibitory Receptors on Platelets	46
STEPHEN K. FISHER, ANNE M. HEACOCK, EDWARD B. SEGUIN, AND BERNARD W. AGRANOFF. Polyphosphoinositides Are the Major Source of Inositol Phosphates in Carbamoylcholine-Stimulated SK-N-SH Neuroblastoma Cells	54
NAZZARENO BALLATORI AND ANH T. TRUONG. Cholestasis, Altered Junctional Permeability, and Inverse Changes in Sinusoidal and Biliary Glutathione Release by Vasopressin and Epinephrine	64
EDWARD LEUNG, KENNETH A. JACOBSON, AND RICHARD D. GREEN. Analysis of Agonist-Antagonist Interactions at A ₁ Adenosine Receptors	72
DAVID J. ALLSUP AND MICHAEL R. BOARDER. Comparison of P ₂ Purinergic Receptors of Aortic Endothelial Cells with Those of Adrenal Medulla: Evidence for Heterogeneity of Receptor Subtype and of Inositol Phosphate Response	84
RAYMOND G. BOOTH, ROSS J. BALDESSARINI, NORA S. KULA, YIGONG GAO, RUSHI ZONG, AND JOHN L. NEUMEYER. Presynaptic Inhibition of Dopamine Synthesis in Rat Striatal Tissue by Enantiomeric Mono- and Dihydroxyaporphines	92
TIMOTHY J. SHAFER, MARGARITA L. CONTRERAS, AND WILLIAM D. ATCHISON. Characterization of Interactions of Methylmercury with Ca ²⁺ Channels in Synaptosomes and Pheochromocytoma Cells: Radiotracer Flux and Binding Studies	102

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 \$85; Japan \$151 (includes air freight); all other countries, surface mail \$110. USA institutional rate \$185; Japan \$251 (includes air freight); all other countries, surface mail \$210. Single copies \$17 (\$20 foreign). (Prices subject to change.) Indexed by *Index Medicus*, *Current Contents/Life Sciences*, *Excerpta Medica*, *Current Awareness in Biological Sciences*, and *Nuclear Medicine Literature Updating and Indexing Service*. 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. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1990 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

TERESA M. PLUCINSKI, ROGER S. FAGER, AND G. PREM VEER REDDY. Allosteric Interaction of Components of the Replisome Complex Is Responsible for Enzyme Cross-inhibition	114
TERRENCE J. MONKS, ROBERT J. HIGHET, AND SERRINE S. LAU. Oxidative Cyclization, 1,4-Benzothiazine Formation and Dimerization of 2-Bromo-3-(glutathion-S-yl)hydroquinone	121
YI-REN WU, FREDERICK C. KAUFFMAN, WEI QU, PATRICIA GANEY, AND RONALD G. THURMAN. Unique Role of Oxygen in Regulation of Hepatic Monooxygenation and Glucuronidation	128
KAREN M. CAUSEY, CHARLES S. EYER, AND WAYNE L. BACKES. Dual Role of Phospholipid in the Reconstitution of Cytochrome P-450 LM2-Dependent Activities	134
FREDERICK J. EHLERT AND FRANK M. DELEN. Influence of pH on the Binding of Scopolamine and <i>N</i> -Methylscopolamine to Muscarinic Receptors in the Corpus Striatum and Heart of Rats	143
FREDERICK J. EHLERT AND BRENT E. RATHBUN. Signaling through the Muscarinic Receptor-Adenylate Cyclase System of the Heart Is Buffered against GTP over a Range of Concentrations	148

Copyright © 1990 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.