

CONTENTS

SHORT COMMUNICATIONS

TIZIANA MENNINI, ELENA POGGESI, SUSANNA COTECCHIA, ANTONIO DE BLASI, AND ROSARIO SAMANIN. Changes in Serotonin, but Not Catecholamine, Receptor Binding in the Brain of Morphine-Dependent Rats	237
N. SUBRAMANIAN AND T. A. SLOTKIN. Solubilization of a [³ H]Cimetidine Binding Site from Rat Brain: A Clonidine-Sensitive H-2 Receptor Subtype?	240
JOHN R. CANN, LAWRENCE W. NICHOL, AND DONALD J. WINZOR. Micellarization of Chlorpromazine: Implications in the Binding of the Drug to Brain Tubulin	244
<hr/>	
R. SUZANNE ZUKIN AND STEPHEN R. ZUKIN. Demonstration of [³ H]Cyclazocine Binding to Multiple Opiate Receptor Sites	246
NANCY E. LARSEN, DEBRA MULLIKIN-KILPATRICK, AND ARTHUR J. BLUME. Two Different Modifications of the Neuroblastoma × Glioma Hybrid Opiate Receptors Induced by N-Ethylmaleimide	255
ALAIN PUGET, PHILIPPE JAUZAC, JEAN-MARIE ZAJAC, AND JEAN-CLAUDE MEUNIER. Opiate Receptors in the Rat Brain: Specific Labeling of Multiple Membrane Components with [³ H]Etorphine?	263
STEVEN V. FISCHER AND FEDOR MEDZHIRADSKY. Scatchard Analysis of Opiate Receptor Binding	269
MICHEL BAUDRY, ELIZABETH SMITH, AND GARY LYNCH. Influences of Temperature, Detergents, and Enzymes on Glutamate Receptor Binding and Its Regulation by Calcium in Rat Hippocampal Membranes	280
WILLIAM C. DAVIS AND MAHARAJ K. TICKU. Ethanol Enhances [³ H]Diazepam Binding at the Benzodiazepine-γ-Aminobutyric Acid Receptor-Ionophore Complex	287
P. B. M. W. M. TIMMERMANS, F. KARAMAT ALI, H. Y. KWA, A. M. C. SCHOOP, F. P. SLOTHORST-GRISDIJK, AND P. A. VAN ZWIETEN. Identical Antagonist Selectivity of Central and Peripheral <i>Alpha</i> ₁ -Adrenoceptors	295
ROBERT ALVAREZ, ADAIR TAYLOR, JASMINE J. FAZZARI, AND JOHN R. JACOBS. Regulation of Cyclic AMP Metabolism in Human Platelets: Sequential Activation of Adenylate Cyclase and Cyclic AMP Phosphodiesterase by Prostaglandins	302
PETER H. FISHMAN, PIERRE MALLORGA, AND JOHN F. TALLMAN. Catecholamine-Induced Desensitization of Adenylate Cyclase in Rat Glioma C6 Cells: Evidence for a Specific Uncoupling of <i>Beta</i> -Adrenergic Receptors from a Functional Regulatory Component of Adenylate Cyclase	310
MICHAEL T. PIASCIK, MARY F. PIASCIK, ROBERT J. HITZEMANN, AND JAMES D. POTTER. Ca ²⁺ -Dependent Regulation of Rat Caudate Nucleus Adenylate Cyclase and Effects on the Response to Dopamine	319
A. M. CHERET, F. PIGNAL, AND M. J.-M. LEWIN. Effects of H ₂ -Receptor Antagonists Cimetidine, Ranitidine, and ICI 125,211 on Histamine-Stimulated Adenylate Cyclase Activity in Guinea Pig Gastric Mucosa	326
TAM THANH QUACH, ANNE-MARIE DUCHEMIN, CHRISTIANE ROSE, AND JEAN-CHARLES SCHWARTZ. Specific Desensitization of Histamine H ₁ Receptor-Mediated [³ H]Glycogen Hydrolysis in Brain Slices	331
KATHRYN K. MCMAHON AND RICHARD J. SCHIMMEL. Evidence for <i>Alpha</i> -Adrenergic Activation and Inactivation of Phosphorylase in Hamster Adipocytes	339

(continued)

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is published bi-monthly by The American Society for Pharmacology and Experimental Therapeutics, 428 East Preston St., Baltimore, MD. 21202. 1981: Volumes 19-20. Price per volume: USA individual rate \$65.00; all other countries \$85.00. USA institutional rate \$130.00; all other countries \$150.00. All correspondence and subscription orders should be addressed to the Business Office, Molecular Pharmacology, P.O. Box 64025, Baltimore, MD. 21264. Send notice of address changes to the Business Office at least 6-8 weeks in advance. Second Class Postage paid at Baltimore, MD. and at additional mailing offices. POSTMASTER send address changes (Form 3579) to 428 East Preston St., Baltimore, MD. 21202.

Copyright © 1981 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

L. G. AGUAYO, B. PAZHENCHEVSKY, J. W. DALY, AND E. X. ALBUQUERQUE. The Ionic Channel of the Acetylcholine Receptor: Regulation by Sites Outside and Inside the Cell Membrane Which Are Sensitive to Quaternary Ligands	345
WILLIAM A. CATTERALL. Inhibition of Voltage-Sensitive Sodium Channels in Neuroblastoma Cells by Antiarrhythmic Drugs	356
M. VOLPI, R. I. SHA'AFI, AND M. B. FEINSTEIN. Antagonism of Calmodulin by Local Anesthetics: Inhibition of Calmodulin-Stimulated Calcium Transport of Erythrocyte Inside-Out Membrane Vesicles	363
ALDO BALSAMO, BRUNO MACCHIA, FRANCO MACCHIA, ADRIANO MARTINELLI, PIETRO TOGNETTI, AND CARLO A. VERACINI. Conformational Properties of Benzodioxan Derivatives with <i>Alpha</i> -Adrenergic Blocking Activity	371
GARY L. GRUNEWALD, RONALD T. BORCHARDT, MICHAEL F. RAFFERTY, AND POLINA KRASS. Conformational Preferences of Amphetamine Analogues for Inhibition of Phenylethanolamine <i>N</i> -Methyltransferase: Conformationally Defined Adrenergic Agents. 5	377
MARI K. HADDOX, J. R. WOMBLE, DOUGLAS F. LARSON, WILLIAM R. ROESKE, AND DIANE HADDOCK RUSSELL. Isoproterenol Stimulation of Ornithine Decarboxylase Blocked by Propranolol during Ontogeny of the Murine Heart	382
GARTH POWIS, BRUCE A. SVINGEN, AND PEGGY APPEL. Quinone-Stimulated Superoxide Formation by Subcellular Fractions, Isolated Hepatocytes, and Other Cells.	387
SUSAN P. C. COLE, RALPH ALLEN WHITNEY, AND GERALD S. MARKS. Ferrochelatase-Inhibitory and Porphyrin-Inducing Properties of 3,5-Diethoxycarbonyl-1,4-dihydro-2,4,6-trimethylpyridine and Its Analogues in Chick Embryo Liver Cells	395
WILLIAM R. WILSON, BRUCE C. BAGULEY, LAURENCE P. G. WAKELIN, AND MICHAEL J. WARING. Interaction of the Antitumor Drug 4'-(9-Acridinylamino)methanesulfon- <i>m</i> -anisidide and Related Acridines with Nucleic Acids	404
JERRY L. RUTH AND YUNG-CHI CHENG. Nucleoside Analogues with Clinical Potential in Antivirus Chemotherapy: The Effect of Several Thymidine and 2'-Deoxycytidine Analogue 5'-Triphosphates on Purified Human (α,β) and Herpes Simplex Virus (Types 1, 2) DNA Polymerase	415
STEPHEN M. ADAMS, MICHAEL J. MURPHY, AND LAURENCE S. KAMINSKY. Molecular Orbital Studies of the Metabolism of Fluroxene and Analogous Fluorinated Ether Anesthetics	423
CONNIE KOTAKE, PHILIP C. HOFFMANN, LEON I. GOLDBERG, AND JOSEPH G. CANNON. Comparison of the Effects of Dopamine and <i>Beta</i> -Adrenergic Agonists on Adenylate Cyclase of Renal Glomeruli and Striatum	429
HENRY R. BOURNE, DAVID KASLOW, HARVEY R. KASLOW, MICHAEL P. SALOMON, AND VOJTEK LICKO. Hormone-Sensitive Adenylate Cyclase: Mutant Phenotype with Normally Regulated <i>Beta</i> -Adrenergic Receptors Uncoupled from Catalytic Adenylate Cyclase	435
ALAN POLAND, IVAN MAK, AND EDWARD GLOVER. Species Differences in Responsiveness to 1,4-Bis[2-(3,5-dichloropyridyloxy)]-benzene, a Potent Phenobarbital-Like Inducer of Microsomal Monooxygenase Activity	442
ERRATA	451

Copyright © 1981 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-1981 articles are the same as those shown for current articles.