

CONTENTS

ACCELERATED COMMUNICATIONS

JOSÉ M. MUSACCHIO, MARTINE KLEIN, AND JOHN J. PATURZO. Effects of Dextromorphan Site Ligands and Allosteric Modifiers on the Binding of (+)-[³ H]3-(3-Hydroxyphenyl)-N-(1-propyl)piperidine	1
SUMNER H. BURSTEIN, KEITH HULL, SHIELA A. HUNTER, AND JONATHAN SHILSTONE. Immunization against Prostaglandins Reduces Δ^1 -Tetrahydrocannabinol-Induced Cataplexy in Mice	6
JENNINE M. LUNETTA, KATSUMI SUGIYAMA, AND MARIA ALMIRA CORREIA. Secobarbital-Mediated Inactivation of Rat Liver Cytochrome P-450 _β : A Mechanistic Reappraisal	10
JAY S. FINE, THOMAS A. GASIEWICZ, AND ALLEN E. SILVERSTONE. Lymphocyte Stem Cell Alterations following Perinatal Exposure to 2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin	18

ARTICLES

JANICE E. PARENTE, MICHAEL P. WALSH, PEGGY R. GIRARD, J. F. KUO, DAVID S. NG, AND KENNETH WONG. Effects of Gold Coordination Complexes on Neutrophil Function Are Mediated via Inhibition of Protein Kinase C	26
PAUL C. FRANCEL, JAMES F. KEEFER, AND GLYN DAWSON. Bradykinin Analogs Antagonize Bradykinin-Induced Second Messenger Production in a Sensory Neuron Cell Line	34
M. MCKINNEY, D. ANDERSON, AND L. VELLA-ROUNTREE. Different Agonist-Receptor Active Conformations for Rat Brain M1 and M2 Muscarinic Receptors that Are Separately Coupled to Two Biochemical Effector Systems	39
SAN-BAO HWANG, MY-HANH LAM, AND AMY HAN-MING HSU. Characterization of Platelet-Activating Factor (PAF) Receptor by Specific Binding of [³ H]L-659,989, a PAF Receptor Antagonist, to Rabbit Platelet Membranes: Possible Multiple Conformational States of a Single Type of PAF Receptors	48
MATS O. KARLSSON AND ANDERS NEIL. Estimation of Ligand Binding Parameters by Simultaneous Fitting of Association and Dissociation Data: A Monte Carlo Simulation Study	59✓
MAUREEN PRICE, MICHAEL A. GISTRAP, YOSSEF ITZHAK, ELLIOT F. HAHN, AND GAVRIL W. PASTERNAK. Receptor Binding of [³ H]Naloxone Benzoylhydrazone: A Reversible κ and Slowly Dissociable μ Opiate	67
CYNTHIA CZAJKOWSKI, TERRELL T. GIBBS, AND DAVID H. FARB. Transmembrane Topology of the γ -Aminobutyric Acid _A /Benzodiazepine Receptor: Subcellular Distribution and Allosteric Coupling Determined <i>In Situ</i>	75
CHUEN-SHANG C. WU AND JEN TSI YANG. Tacrine Protection of Acetylcholinesterase from Inactivation by Diisopropylfluorophosphate: A Circular Dichroism Study	85
GARY L. GRUNEWALD, QIZHUANG YE, DANIEL J. SALL, KEVIN R. CRISCIONE, AND BART WISE. Conformational and Steric Aspects of Phenylethanolamine and Phenylethylamine Analogues as Substrates or Inhibitors of Phenylethanolamine <i>N</i> -Methyltransferase	93
MIGUEL A. VAZQUEZ-PADUA, KEITH KUNUGI, AND PAUL H. FISHER. Enzyme Regulatory Site-Directed Drugs: Study of the Interactions of 5'-Amino-2', 5'-dideoxythymidine (5'-AdThd) and Thymidine Triphosphate with Thymidine Kinase and the Relationship to the Stimulation of Thymidine Uptake by 5'-AdThd in 647V Cells	98

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 \$80; Japan \$145 (includes air freight); all other countries, surface mail \$105. USA institutional rate \$175; Japan \$240 (includes air freight); all other countries, surface mail \$200. (Prices subject to change.) 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 © 1989 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

JAMES M. FORD, WALTER C. PROZIALECK, AND WILLIAM N. HAIT. Structural Features Determining Activity of Phenothiazines and Related Drugs for Inhibition of Cell Growth and Reversal of Multidrug Resistance	105
JOHN M. THOMAS AND BRIAN B. HOFFMAN. Chronic Somatostatin Treatment Induces Enhanced Forskolin-Stimulated cAMP Accumulation in Wild-Type S49 Mouse Lymphoma Cells But Not in Protein Kinase-Deficient Mutants	116
RICHARD F. COX AND BARBARA L. WASZCZAK. Differences in Dopamine Receptor Reserve for <i>N-n</i> -Propylnorapomorphine Enantiomers: Single Unit Recording Studies after Partial Inactivation of Receptors by <i>N</i> -Ethoxycarbonyl-2-ethoxy-1, 2-dihydroquinoline	125
ANNE H. CHEUNG, IRVING S. SIGAL, RICHARD A. F. DIXON, AND CATHERINE D. STRADER. Agonist-Promoted Sequestration of the β_2 -Adrenergic Receptor Requires Regions Involved in Functional Coupling with G_s	132
PATRICK H. ROSEBOOM AND MARGARET C. GNEGY. Acute <i>In Vitro</i> Amphetamine Produces a Homologous Desensitization of Dopamine Receptor-Coupled Adenylate Cyclase Activities and Decreases Agonist Binding to the D1 Site	139
JAMES HALPERT, JOHN-YAN JAW, AND CELIA BALFOUR. Specific Inactivation by 17 β -Substituted Steroids of Rabbit and Rat Liver Cytochromes P-450 Responsible for Progesterone 21-Hydroxylation	148
JAMES D. HIRSCH, CARL F. BEYER, LORRAINE MALKOWITZ, BERNARD BEER, AND ARTHUR J. BLUME. Mitochondrial Benzodiazepine Receptors Mediate Inhibition of Mitochondrial Respiratory Control	157
JAMES D. HIRSCH, CARL F. BEYER, LORRAINE MALKOWITZ, COSTAS C. LOULLIS, AND ARTHUR J. BLUME. Characterization of Ligand Binding to Mitochondrial Benzodiazepine Receptors	164

Copyright © 1989 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.