CONTENTS

TONY EVANS, MCHARDY M. SMITH, LAURA I. TANNER, AND T. KENDALL HARDEN. Muscarinic Cholinergic Receptors of Two Cell Lines That Regulate Cyclic AMP Metabolism by Different Molecular Mechanisms	395 T*
S. Kelly Ambler, R. Dale Brown, and Palmer Taylor. The Relationship between Phosphatidylinositol Metabolism and Mobilization of Intracellular Calcium Elicited by Alpha ₁ -Adrenergic Receptor Stimulation in BC3H-1 Muscle Cells	-405 T*
JOEL LINDEN. Purification and Characterization of $(-)[^{125}I]$ Hydroxyphenylisopropyladenosine, an Adenosine R -Site Agonist Radioligand and Theoretical Analysis of Mixed Stereoisomer Radioligand Binding	414-
GARY L. WALDO, ROBERT C. DOSS, JOHN P. PERKINS, AND T. KENDALL HARDEN. Use of a Density Shift Method to Assess Beta-Adrenergic Receptor Synthesis during Recovery from Catecholamine-Induced Down-Regulation in Human Astrocytoma Cells	424
TOHRU NAKAJIMA AND KUMIKO IWATA. [3H]Ro 22-1319 (Piquindone) Binds to the D ₂ Dopaminergic Receptor Subtype in a Sodium-Dependent Manner	430 ~
ARTHUR A. HANCOCK AND CATHERINE L. MARSH. Distinctions between Ligand-Binding Sites for [3H]Dopamine and D ₂ Dopaminergic Receptors Characterized with [3H] Spiroperidol	439 T
M. P. SEILER AND R. MARKSTEIN. Further Characterization of Structural Requirements for Agonists at the Striatal Dopamine D ₂ Receptor and a Comparison with Those at the Striatal Dopamine D ₁ Receptor: Studies with a Series of Monohydroxyaminote-tralins on Acetylcholine Release from Rat Striatum	452 T
ROSARIO R. TRIFILETTI AND SOLOMON H. SNYDER. Anxiolytic Cyclopyrrolones Zopiclone and Suriclone Bind to a Novel Site Linked Allosterically to Benzodiazepine Receptors	458
ROSARIO R. TRIFILETTI, ADELE M. SNOWMAN, AND SOLOMON H. SNYDER. Anxiolytic Cyclopyrrolone Drugs Allosterically Modulate the Binding of $[^{35}S]t$ -Butylbicyclophosphorothionate to the Benzodiazepine/ γ -Aminobutyric Acid-A Receptor/Chloride Anionophore Complex	470 T
NICOLE JOHNSON AND GAVRIL W. PASTERNAK. Binding of [3H]Naloxonazine to Rat Brain Membranes	477 T
KJ. CHANG, S. G. BLANCHARD, AND P. CUATRECASAS. Benzomorphan Sites Are Ligand Recognition Sites of Putative ϵ -Receptors	484
J. T. WILLIAMS AND R. A. NORTH. Opiate-Receptor Interactions on Single Locus Coeruleus Neurones	489
ANDRÉ DE LÉAN, HUY ONG, JOLANTA GUTKOWSKA, PETER W. SCHILLER, AND NORMAND MCNICOLL. Evidence for Agonist-Induced Interaction of Angiotensin Receptor with a Guanine Nucleotide-Binding Protein in Bovine Adrenal Zona Glomerulosa	498
CHARLES F. SIMMONS, JR. AND ALAN L. SCHWARTZ. Cellular Pathways of Galactose- Terminal Ligand Movement in a Cloned Human Hepatoma Cell Line	509
W. L. Duax, D. C. Swenson, P. D. Strong, K. S. Korach, J. McLachlan, and M. Metzler. Molecular Structures of Metabolites and Analogues of Diethylstilbestrol and Their Relationship to Receptor Binding and Biological Activity	520
SUSAN E. SADLER, JAMES L. MALLER, AND DERMOT M. F. COOPER. Progesterone Inhibition of Xenopus Oocyte Adenylate Cyclase Is Not Mediated via the Bordetella pertussis Toxin Substrate	526
ALLYN C. HOWLETT AND RICHARD M. FLEMING. Cannabinoid Inhibition of Adenylate Cyclase: Pharmacology of the Response in Neuroblastoma Cell Membranes	532
Conti	nued

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is published bi-monthly by The American Society for Pharmacology and Experimental Therapeutics, 428 East Preston Street, Baltimore, MD 21202. 1984: Volumes 25-26. Price per year: USA individual rate \$75.00; all other countries, surface mail \$90.00. USA institutional rate \$165.00; all other countries, surface mail \$180.00. All subscription orders should be addressed to Molecular Pharmacology, Williams & Wilkins Co., 428 East Preston Street, Baltimore, MD 21202. Send notice of address changes 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 Street, Baltimore, MD 21202.

Copyright © 1984 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

SANDFORD JAQUES, JR., MICHAEL C. TOBES, JAMES C. SISSON, JAMES A. BAKER, AND DONALD M. WIELAND. Comparison of the Sodium Dependency of Uptake of meta-Iodobenzylguanidine and Norepinephrine into Cultured Bovine Adrenomedullary Cells	539
BARRY J. PERLMAN AND DORA B. GOLDSTEIN. Genetic Influences on the Central Nervous System Depressant and Membrane-Disordering Actions of Ethanol and Sodium Valproate	547
JON-SVERRE SCHANCHE, TONE SCHANCHE, PER MAGNE UELAND, ANTONIN HOLÝ, AND IVAN VOTRUBA. The Effect of Aliphatic Adenine Analogues on S-Adenosylhomocysteine and S-Adenosylhomocysteine Hydrolase in Intact Rat Hepatocytes	553
M. C. GAREL, C. DOMENGET, F. GALACTEROS, J. MARTIN-CABURI, AND Y. BEUZARD. Inhibition of Erythrocyte Sickling by Thiol Reagents	559
MARSHALL E. SPEARMAN, STEPHEN J. MOLONEY, AND RUSSELL A. PROUGH. Effect of Cytosolic Components on the Metabolism of the Hydrazide Iproniazid	5 6 6
STEVEN A. BELINSKY, FREDERICK C. KAUFFMAN, AND RONALD G. THURMAN. Reducing Equivalents for Mixed Function Oxidation in Periportal and Pericentral Regions of the Liver Lobule in Perfused Livers from Normal and Phenobarbital-Treated Rats	574
PETER L. GUTIERREZ, BONNIE M. FOX, MAGDI M. MOSSOBA, AND NICHOLAS R. BACHUR. Free Radicals in Quinone-Containing Antitumor Agents: Electrochemical Reduction of Diaziquone (2,5-Diaziridine-3,6-bis(carboethoxyamino)-1,4-benzoquinone) and Two Analogues.	582
Ting-Chao Chou, Carlos Lopez, Joseph M. Colacino, Aaron Feinberg, Kyoichi A. Watanabe, Jack J. Fox, and Frederick S. Philips. Metabolic Competition Studies of 2'-Fluoro-5-iodo-1-β-D-arabinofuranosylcytosine in Vero Cells and Herpes Simplex	587
LEE-JANE WANG LU AND KURT RANDERATH. Long Term Instability and Molecular Mechanism of 5-Azacytidine-Induced DNA Hypomethylation in Normal and Neoplastic Tissues in Vivo	5 94
AUTHOR INDEX FOR VOLUME 26	605 [°]
Cumulative Subject Index for Volumes 25 and 26	610

Copyright © 1984 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, Massachusetta 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-1984 articles are the same as those shown for current articles.