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

S. KELLY AMBLER, R. DALE BROWN, AND PALMER TAYLOR. The Relationship between Phosphatidylinositol Metabolism and Mobilization of Intracellular Calcium Elicited by Alpha2-Adrenergic Receptor Stimulation in BC3H-1 Muscle Cells .......... 405

JOEL LINDEN. Purification and Characterization of (-)[125I]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 D2 Dopaminergic Receptor with a Sodium-Dependent Manner .............................................. 430

ARTHUR A. HANCOCK AND CATHERINE L. MARSH. Distinctions between Ligand-Binding Sites for [3H]Dopamine and D2 Dopaminergic Receptors Characterized with [3H] Spiroperidol ............................................................ 439

M. P. SEILER AND R. MARKSTEIN. Further Characterization of Structural Requirements for Agonists at the Striatal Dopamine D2 Receptor and a Comparison with Those at the Striatal Dopamine D1 Receptor: Studies with a Series of Monohydroxyaminotrilins on Acetylcholine Release from Rat Striatum ................................. 452

ROSARIO R. TRIFILETTI AND SOLOMON H. SNYDER. Anxiolytic Cyclopyrrolone 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 [35S]b-Butylcyclophosphorothionate to the Benzodiazepine/-Aminobutyric Acid-A Receptor/Chloride Anionophore Complex ........................................ 470

NICOLE JOHNSON AND GAVRIL W. PASTERNAK. Binding of [3H]Naloxonazine to Rat Brain Membranes ................................................................. 477

K.-J. CHANG, S. G. BLANCHARD, AND P. CUATRECASAS. Benzomorphan Sites Are Ligand Recognition Sites of Putative e-Receptors ........................................ 484

J. T. WILLIAMS AND R. A. NORTH. Opiate-Receptor Interactions on Single Locus Coeruleus Neurons ................................................................. 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. MLACHLAN, 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

Continued
CONTENTS (cont'd)

SANDFORD JAQUES, JR., MICHAEL C. TOBES, JAMES C. SIS8ON, 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 HOLY, 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 .......................... 566

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-benzooquinone) 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-ido-1-β-D-arabinofuranosylcytosine in Vero Cells and Herpes Simplex Type 1-Infected Vero Cells ........................................... 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 ........................................... 594

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