CONTENTS

TONY EVANS, MC HARDY 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 B3H-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 Subtype in 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 Monohydroxyaminoetra- tralins on Acetylcholine Release from Rat Striatum 452

ROSARIO R. TRIFILETTI AND SOLOMON H. SNYDER. Anxiolytic Cyclopyrrolones Zopiclone and Suviclone 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]t-Butylcyclophosphorothionate to the Benzodiazepine/γ-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 ε-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. MCCLACHLAN, 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. HLOWLETT AND RICHARD M. FLEMING. Cannabinoid Inhibition of Adenylate Cyclase: Pharmacology of the Response in Neuroblastoma Cell Membranes 532

Continued