CONTENTS

SHORT COMMUNICATIONS

ÖLE NORDSTRÖM, PETERIS ALBERTS, ANITA WESTLIND, ANDERS UNDÉN, AND TAMAS
BARTFAI. Presynaptic Antagonist-Postsynaptic Agonist at Muscarinic Cholinergic
Synapses: N-Methyl-N-(1-methyl-4-pyrrolidino-2-butynyl)acetamide .................. 1

STANLEY A. THAYER AND ALAN S. FAIRHURST. The Interaction of Dihydropyridine
Calcium Channel Blockers with Calmodulin and Calmodulin Inhibitors ............... 6

LESLIE LILLY, CLAIRE M. FRASER, CHAN Y. JUNG, PHILIP SEEMAN, AND J. CRAIG VEN-
ter. Molecular Size of the Canine and Human Brain D2 Dopamine Receptor as
Determined by Radiation Inactivation ............................................. 10

JANET DUNLAP AND JOAN HELLER BROWN. Heterogeneity of Binding Sites on Cardiac
Muscarinic Receptors Induced by the Neuromuscular Blocking Agents Gallamine and
Pancuronium ................................................................. 15

JEAN-CLAUDE MEUNIER, YAO KOUKOU, ALAIN PUGET, AND CHRISTIANE MOISAND.
Multiple Opiate Binding Sites in the Central Nervous System of the Rabbit: Large
Predominance of a Mu Subtype in the Cerebellum and Characterization of a Kappa
Subtype in the Thalamus .................................................................. 23

P. PALATINI. The Interaction between Full and Partial Inhibitors Acting on a Single
Enzyme: A Theoretical Analysis ..................................................... 30

LEONARD R. FORTE, DAVID B. BYLUND, AND WARREN L. ZAHLER. Foreskolin Does Not
Activate Sperm Adenylate Cyclase ................................................. 42

D. C. ANDERSON, STEVEN C. KING, AND STANLEY M. PARSONS. Pharmacological Char-
acterization of the Acetylcholine Transport System in Purified Torpedo Electric Organ
Synaptic Vesicles ......................................................................... 48

D. C. ANDERSON, STEVEN C. KING, AND STANLEY M. PARSONS. Inhibition of [3H]Acetyl-
choline Active Transport by Tetraphenylborate and Other Anions .................... 55

RICHARD M. DENNEY, RICHARD R. FRITZ, NUTAN T. PATEL, STEVEN G. WIDEN, AND
CREED W. ABELL. Use of a Monoclonal Antibody for Comparative Studies of Mono-
amine Oxidase B in Mitochondrial Extracts of Human Brain and Peripheral Tissues
................................................................................................. 60

CLAUDIA THOMPSON AND GEORGE W. LUCIER. Hepatic Estrogen Responsiveness: Possible
Mechanisms for Sexual Dimorphism ............................................... 69

R. MARK EVANS, STEVEN R. PATIERNO, DE-SHIN WANG, ORAZIO CANTONI, AND MAX
COSTA. Growth Inhibition and Metallothionein Induction in Cadmium-Resistant Cells
by Essential and Non-Essential Metals .............................................. 77

ORAZIO CANTONI AND MAX COSTA. Correlations of DNA Strand Breaks and Their Repair
with Cell Survival following Acute Exposure to Mercury(II) and X-Rays .............. 84

PAUL H. FISCHER, DAVID G. MURPHY, AND RODNEY KAWAHARA. Preferential Inhibition
of 5-Trifluoromethyl-2'-Deoxyuridine Phosphorylation by 5'-Amino-5'-Deoxythymidine
in Uninfected versus Herpes Simplex Virus-Infected Cells ............................ 90

FRANK RAUSCHER, III, GAIL MUELLER, AND TERRY BEERMAN. The Effects of the Anti-
tumor Protein Auromomycin on HeLa S2 Nuclei: Release of Soluble Chromatin .... 97

DAVID S. DUCH, CHING-LUN LEE, MARK P. EDELSTEIN, AND CHARLES A. NICOL. Biosynthesis of Tetrahydrobiopterin in the Presence of Dihydrofolate Red-
uctase Inhibitors ........................................................................ 103

(continued)