CONTENTS

ACCELERATED COMMUNICATION

RICHARD B. CLARK, JACQUELINE FRIEDMAN, RICHARD A. F. DIXON, AND CATHERINE D. STRADER. Identification of a Specific Site Required for Rapid Heterologous Desensitization of the β-Adrenergic Receptor by cAMP-Dependent Protein Kinase .......................... 343

ARTICLES

STEWART N. ABRAMSON, ZORAN RADIC, DENISE MANKER, D. JOHN FAULKNER, AND PALMER TAYLOR. Onchidal: A Naturally Occurring Irreversible Inhibitor of Acetylcholinesterase with a Novel Mechanism of Action ........................................ 349

CATHERINE A. O'BRIAN AND NANCY E. WARD. ATP-Sensitive Binding of Melittin to the Catalytic Domain of Protein Kinase C ........................................... 355

BARRY GOZ, PHILIP L. CARL, AND THEA D. TLSTY. 1-β-D-Arabinofuranoslycytosine Enhancement of Resistance to Several Antineoplastic Drugs in Mammalian Tissue Culture Cells ........................................... 360

WILLIAM D. SINGER, MARY ANN JORDAN, LESLIE WILSON, AND RICHARD H. HIMES. Binding of Vinblastine to Stabilized Microtubules ........................................ 366

YAW-HUEI HSIA, JACK B. JIANG, AND LEROY F. LIU. Topoisomerase II-Mediated DNA Cleavage by Amanadine and Its Structural Analogs ........................................... 371

LESTER M. BORNHEIM AND MARIA ALMIRA CORREIA. Purification and Characterization of a Mouse Liver Cytochrome P-450 Induced by Cannabidiol ........................................... 377

KENNETH R. McLEISH, PETER GIERSKICK, AND KARL H. JAKOBS. Densensitization Uncouples the Formyl Peptide Receptor-Guanine Nucleotide-Binding Protein Interaction in HL60 Cells ........................................... 384

SURESH K. JOSEPH, CARL A. HANSEN, AND JOHN R. WILLIAMSON. Inositol Tetra-
kosiphosphate Mobilizes Calcium from Cerebellum Microsomes ........................................... 391

JEREMY K. NICHOLSON, DENISE P. HIGHAM, JOHN A. TIMBRELL, AND PETER J. SADLER. Quantitative High Resolution 'H NMR Uralysis Studies on the Biochemical Effects of Cadmium in the Rat ........................................... 398

MAGALI WAELBROECK, JEAN CAMUS, AND JEAN CHRISTOPHE. Determination of the Association and Dissociation Rate Constants of Muscarinic Antagonists on Rat Pancreas: Rank Order of Potency Varies with Time ........................................... 405

EDWARD LEUNG AND RICHARD D. GREEN. Density Gradient Profiles of A, Adenosine Receptors Labeled by Agonist and Antagonist Radioligands Before and After Detergent Solubilization ........................................... 412

DAVID R. POYNER, NIGEL J. M. BIRDSALL, CAROL CURTIS, PHIKE EVELIEG, EDWARD C. HULME, E. KRISTINA PEDDER, AND MARK WHEATLEY. Binding and Hydrodynamic Properties of Muscarinic Receptor Subtypes Solubilized in 3-(3-Cholamidopropyl)dimethylammonio-2-hydroxy-1-propanesulfonate ........................................... 420

N. W. KLECKNER AND R. DINGLEDINE. Selectivity of Quinoxalines and Kynurenines as Antagonists of the Glycine Site on N-Methyl-D-aspartate Receptors ........................................... 430

DOUGLAS STICKLE AND ROGER BARBER. Evidence for the Role of Epinephrine Binding Frequency in Activation of Adenylate Cyclase ........................................... 437

KIM A. NEVE, ROBERT A. HENNINGS, JAMES R. BUNZOW, AND OLIVIER CIVELLI. Functional Characterization of a Rat Dopamine D-2 Receptor cDNA Expressed in a Mammalian Cell Line ........................................... 446

Continued
CONTENTS (cont'd)

ROSE KAUFMAN, GARY A. ROGERS, CATHERINE FEHLMANN, AND STANLEY M. PARSONS. Fractional Vesamicol Receptor Occupancy and Acetylcholine Active Transport Inhibition in Synaptic Vesicles .................................................. 452

ROGER BARBER, THOMAS J. GOKA, AND R. W. BUTCHER. Growth of S49 Cells in Low Concentrations of β-Adrenergic Agonists Causes Desensitization .................................................. 459

JESSE BAUMGOLD AND ANTHONY DROBNICK. An Agonist That Is Selective for Adenylate Cyclase-Coupled Muscarinic Receptors .................................................. 465

LAURA C. DANIELL AND R. ADRON HARRIS. Effect of Anesthetics on Calcium Stores and Membrane Order of Brain Microsomes .................................................. 471

ROLF BRODERSEN AND ALEX ROBERTSON. Ceftriaxone Binding to Human Serum Albumin: Competition with Bilirubin .................................................. 478

MARTIN K. BIJSTERBOSCH, GIJSBERTUS J. ZIERE, AND THEO J. C. VAN BERKEL. Lactosylated Low Density Lipoprotein: A Potential Carrier for the Site-Specific Delivery of Drugs to Kupffer Cells .................................................. 484

MASAHIDE HASOBE, JAMES G. MCKEE, HIROAKI ISHII, MARINA COOLS, RONALD T. BORCHARDT, AND ERIK DE CLERCQ. Elucidation of the Mechanism by which Homocysteine Potentiates the Anti-Vaccinia Virus Effects of the S-Adenosylhomocysteine Hydrolase Inhibitor 9-(trans-2',trans-3'-Dihydroxycyclopent-4'-enyl)-adenine ............ 490

JOHN R. CASHMAN. Enantioselective N-Oxygenation of Verapamil by the Hepatic Flavin-Containing Monooxygenase .................................................. 497