CONTENTS

ACCELERATED COMMUNICATIONS

DAVID RAMPE AND RICHARD C. DAGE. Functional Interactions between Two Ca²⁺ Channel Activators, (S)-Bay K 8644 and FPL 64176, in Smooth Muscle .......................... 599

JAMES R. BRORSON, DAVID BLEAKMAN, PAUL S. CHARD, AND RICHARD J. MILLER. Calcium Directly Permeates Kainate/α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid Receptors in Cultured Cerebellar Purkinje Neurons ............ 603

ARTICLES


HARALD H. W. SCHMIDT, TIMOTHY D. WARNER, MASAKI NAKANE, ULRICH FORSTER-MANN, AND FERID MURAD. Regulation and Subcellular Location of Nitrogen Oxide Synthases in RAW264.7 Macrophages .................................. 615

WEN Z. YANG, ASHER BEGLEITER, JAMES B. JOHNSTON, LYONEL G. ISRAELS, AND MICHAEL R. A. MOWAT. Role of Glutathione and Glutathione S-Transferase in Chlorambucil Resistance ............................................. 625

KRISTA J. S. GRACE, MARY MEDINA, ROBERT S. JACOBS, AND LESLIE WILSON. Selective Inhibition of Cytokinesis in Sea Urchin Embryos by the Marine Natural Product Pseudopterolide .............................................. 631

BRIAN E. HUBER. Late-Stage Spermatids Are Characterized by Expression of the “Liver-Specific” Asialoglycoprotein Receptor, RHL-1 ................................................................. 639

KATHLEEN A. COMER AND CHARLES N. FALANY. Immunological Characterization of Dehydriodandrostosterone Sulfotransferase from Human Liver and Adrenal ........................................ 645

CURTIS A. MACHIDA, ROBERT P. SEARLES, VALERIE NIPPER, JULIE A. BROWN, LAURA B. KOZELL, AND KIM A. NEVE. Molecular Cloning and Expression of the Rhesus Macaque D1 Dopamine Receptor Gene ........................................... 652

D. F. CONDORELLI, P. DELL’ALBANI, C. AMICO, G. CASABONA, A. A. GENAZZANI, M. A. SORTINO, AND F. NICOLETTI. Developmental Profile of Metabotropic Glutamate Receptor mRNA in Rat Brain ................................................. 660

ANDREW W. HARMAN, SIMON O. MAHAR, PHILIP C. BURCHAM, AND BARRY W. MADSSEN. Level of Cytosolic Free Calcium during Acetaminophen Toxicity in Mouse Hepatocytes ........................................ 665

JENNIFER S. DAYTON, LAURENCE A. TURKA, CRAIG B. THOMPSON, AND BEVERLY S. MITCHELL. Comparison of the Effects of Mizoribine with Those of Azathioprine, 6-Mercaptopurine, and Mycophenolic Acid on T Lymphocyte Proliferation and Purine Ribonucleotide Metabolism ........................................ 671

Continued
CONTENTS (cont’d)

ASHER BEGLEITER, ERICA ROBOTHAM, AND MARSHA K. LEITH. Role of NAD(P)H: (Quinone Acceptor) Oxidoreductase (DT-Diaphorase) in Activation of Mitomycin C under Hypoxia ................................................. 677

S. SHIMADA, G. CUTTING, AND G. R. UHL. γ-Aminobutyric Acid or C Receptor? γ- Aminobutyric Acid βγ Receptor RNA Induces Bicuculline-, Barbiturate-, and Benzodiazepine-Insensitive γ-Aminobutyric Acid Responses in Xenopus Oocytes .......................... 683

BRIAN N. ATKINSON AND KENNETH P. MINNEMAN. Preferential Desensitization of β- versus α2-Adrenergic Receptors Accelerates Loss of Response to Norepinephrine in Primary Gial Cultures ........................................... 688

XIAO-MING GUAN, STEPHEN J. PEROUTKA, AND BRIAN K. KOBILKA. Identification of a Single Amino Acid Residue Responsible for the Binding of a Class of β-Adrenergic Receptor Antagonists to 5-Hydroxytryptamine1A Receptors ........................................... 695

TERRY P. KENAKIN. Tissue Response as a Functional Discriminator of Receptor Heterogeneity: Effects of Mixed Receptor Populations on Schild Regressions .............. 699

P. CHARNET, C. LABARCA, AND H. A. LESTER. Structure of the γ-less Nicotinic Acetylcholine Receptor: Learning from Omission .................................................... 708

ELIZABETH A. THOMAS, HSIN H. HSU, MICHAEL T. GRIFFIN, AMY L. HUNTER, TAYNA LUONG, AND FREDERICK J. EHLERT. Conversion of N-(2-Chloroethyl)-4-piperidinyldiphenylacetate (4-DAMP Mustard) to an Aziridinium Ion and Its Interaction with Muscarinic Receptors in Various Tissues ............................................ 718


DONNA D. FLYNN, ASMITA A. VAISHNAV, AND DEBORAH C. MASH. Interactions of Cocaine with Primary and Secondary Recognition Sites on Muscarinic Receptors .......................... 736

ANJA GARRITSEN, YINGXIN ZHANG, AND Dermot M. F. COOPER. Purinergic Receptor Regulation of Signal Transduction in NCB-20 Cells .................................................... 743

PETER S. JOHNSON AND ELIAS K. MICHAELIS. Characterization of Organophosphate Interactions at N-Methyl-d-aspartate Receptors in Brain Synaptic Membranes ................. 750

FRIEDRICH GRIMINGER, URSULA DÜRR, AND WERNER SEEGER. Ligand-Operated Synthesis of 4-Series and 5-Series Leukotrienes in Human Neutrophils: Critical Dependence on Exogenous Free Fatty Acid Supply ............................................ 757

ALEJANDRO J. DANIELS, JESSICA E. MATTHEWS, O. HUMBERTO VIVEROS, AND EDUARDO R. LAZAROWSKI. Characterization of the Neuropeptide Y-Induced Intracellular Calcium Release in Human Erythrolymphocytic Cells ............................................ 767

KENNETH C. APPELL, BARBARA J. FRAGALE, JANNE LOSCIG, SAIKA SINGH, AND BRUCE E. TOMCUZK. Antagonists that Demonstrate Species Differences in Neurokinin-1 Receptors ............................................ 772

LECH KIEDROWSKI, ERMINIO COSTA, AND JARDA T. WROBLEWSKI. Sodium Nitroprusside Inhibits N-Methyl-d-aspartate-Evoked Calcium Influx via a Nitric Oxide- and cGMP- Independent Mechanism ............................................ 779

CARMELA ROMANO, KEITH WILLIAMS, SCOTT DEPIEST, RAMAKRISHNAN SESHADRI, GARLAND R. MARSHALL, MERVYN ISRAEL, AND PERRY B. MOLINOB. Effects of Mono-, Di-, and Triamines on the N-Methyl-d-aspartate Receptor Complex: A Model of the Polyamine Recognition Site ............................................ 785

VICTOR HENZI, DAVID B. REICHLING, SCOTT W. HELM, AND AMY B. MACDERMOTT. L-Proline Activates Glutamate and Glycine Receptors in Cultured Rat Dorsal Horn Neurons ............................................ 793

Continued
CONTENTS (cont'd)

MANICKAVASAGOM ALKONDON, EDNA F. R. PEREIRA, SUSAN WONNACOTT, AND EDSON X. ALBUQUERQUE. Blockade of Nicotinic Currents in Hippocampal Neurons Defines Methyllycaconitine as a Potent and Specific Receptor Antagonist ................................. 802

GUYLAIN BOULAY, GUY SERVANT, THANH-TRUC LUONG, EMMANUEL ESCHER, AND GAËTAN GUILLEMETTE. Modulation of Angiotensin II Binding Affinity by Allosteric Interaction of Polyvinyl Sulfate with an Intracellular Domain of the DuP-753-Sensitive Angiotensin II Receptor of Bovine Adrenal Glomerulosa ........................................ 809