CONTENTS

ACCELERATED COMMUNICATION

JURGEN KRAUSE, CAROLA EVA, PETER H. SEEBURG, AND ROLF SRENGEL. Neuropeptide Y_1 Subtype Pharmacology of a Recombinantly Expressed Neuropeptide Receptor ... 817

ARTICLES

SANDRA C. ROERIG, HORACE H. LOH, AND P. Y. LAW. Identification of Three Separate Guanine Nucleotide-Binding Proteins that Interact with the δ-Opioid Receptor in NG108-15 Neuroblastoma × Glioma Hybrid Cells ........................................ 822

JANG-HO J. CHA, RICHARD L. MAKOWIEC, JOHN B. PENNEY, AND ANNE B. YOUNG. Multiple States of Rat Brain (RS)-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic Acid Receptors as Revealed by Quantitative Autoradiography ........... 832

SHEILA L. VRANA, ALBERT J. AZZARO, AND KENT E. VRANA. Chronic Selegiline Administration Transiently Decreases Tyrosine Hydroxylase Activity and mRNA in the Rat Nigrostriatal Pathway .................................................. 839

CHRISTIAN BAILLY, COLM O'HUIGIN, RAYMOND HOUSIN, PIERRE COLSON, CLAUDE HOUSSEY, CHRISTIAN RIVALLE, EMILE BISAGNI, JEAN-PIERRE HENICHART, AND MICHAEL J. WARING. DNA-Binding Properties of a Distamycin-Ellipticine Hybrid Molecule ................................................................. 845

TSUTOMU SHIMADA, CHUL-HO YUN, HIROSHI YAMAZAKI, JEAN-CHARLES GAUTIER, PHILIPPE H. BEAUNE, AND F. PETER GUENGERICH. Characterization of Human Lung Microsomal Cytochrome P-450 1A1 and Its Role in the Oxidation of Chemical Carcinogens .................................................. 856


STELLA CHARLESON, PEPIPOON PRASIT, SERGE LÉGER, JOHN W. GILLARD, PHILIP J. VICKERS, JOSEPH A. MANCINI, PETER CHARLESON, JOCELYNE GUAY, ANTHONY W. FORD-HUTCHINSON, AND JILLY F. EVANS. Characterization of a 5-Lipoxygenase-Activating Protein Binding Assay: Correlation of Affinity for 5-Lipoxygenase-Activating Protein with Leukotriene Synthesis Inhibition .................................................. 873

Continued
CONTENTS (cont’d)

H. CRISS HARTZELL and DANIEL BUDNITZ. Differences in Effects of Forskolin and an Analog on Calcium Currents in Cardiac Myocytes Suggest Intra- and Extracellular Sites of Action ................................................................. 880

STUART A. GREEN, BRIAN D. HOLT, and STEPHEN B. LIGGETT. β1- and β2-Adrenergic Receptors Display Subtype-Selective Coupling to Gα ................................................................. 889

C. S. D’SANTOS, A. GATTI, D. R. POYNER, and M. R. HANLEY. Stimulation of Adenylate Cyclase by Amylin in CHO-K1 Cells ................................................................. 894

JERRY M. WRIGHT and LINDA M. NOWAK. Effects of Low Doses of Bicuculline on N-Methyl-d-aspartate Single-Channel Kinetics Are Not Evident in Whole-Cell Currents .......... 900

MARIA L. AYLWIN and MICHAEL M. WHITE. Forskolin Acts as a Noncompetitive Inhibitor of Nicotinic Acetylcholine Receptors ................................................................. 908

ALAN C. FOSTER, JOHN A. KEMP, PAUL D. LEESON, SARAH GRIMWOOD, ANGUS E. DONALD, GEORGE R. MARSHALL, TONY PRIESTLEY, JULIAN D. SMITH, and ROBERT W. CARLING. Kynurenine Acid Analogues with Improved Affinity and Selectivity for the Glycine Site on the N-Methyl-D-aspartate Receptor from Rat Brain .......... 914

SARAH GRIMWOOD, ANGELA M. MOSELEY, ROBERT W. CARLING, PAUL D. LEESON, and ALAN C. FOSTER. Characterization of the Binding of [3H]L-689,560, an Antagonist for the Glycine Site on the N-Methyl-D-aspartate Receptor, to Rat Brain Membranes .................. 923

CHARLES F. ZORUMSKI, LIU LIN THIO, KEITH E. ISENBERG, and DAVID B. CLIFFORD. Nicotinic Acetylcholine Receptors in Cultured Postnatal Rat Hippocampal Neurons .. 931

ALICIA S. HODGE, DAWN R. HUMPHREY, and TERRONE L. ROSENBERY. Ambenonium Is a Rapidly Reversible Noncovalent Inhibitor of Acetylcholinesterase, with One of the Highest Known Affinities ................................................................. 937

KATHY T. KNECHT, JANICE A. DEGRAY, and RONALD P. MASON. Free Radical Metabolism of Halothane In Vivo: Radical Adducts Detected in Bile ................................................................. 943

BARBARA A. DOMIN, WILLIAM B. MAHONY, GEORGE W. KOZSAK, DAVID J. T. PORTER, GERALD HAJIAN, and THOMAS P. ZIMMERMAN. Membrane Permeation Characteristics of 5'-Modified Thymidine Analogs ................................................................. 950

LOIS L. WRIGHT and GEORGE R. PAINTER. Role of Desolvation Energy in the Nonfacilitated Membrane Permeability of Dideoxyribose Analogs of Thymidine .................. 957

ZEGER DEBYSER, RUDI PAUWELS, MASANORI Baba, JAN DESMYTER, and ERIC DE CLERCQ. Common Features in the Interaction of Tetrahydroimidazo[4,5,1-jk][1,4]benzodiazepin-2(1H)-one and -thione and 1-[(2-Hydroxyethoxy)methyl]-6-(phenylthio)thymine Derivatives with the Human Immunodeficiency Virus Type 1 Reverse Transcriptase 963

ORAZIO CANTONI, PIERO SESTILI, ANDREA GUIDARELLI, PAOLO U. GIACOMONI, and FLAMINIO CATTABENI. Effects of L-Histidine on Hydrogen Peroxide-Induced DNA Damage and Cytotoxicity in Cultured Mammalian Cells ................................................................. 969

Continued
CONTENTS (cont’d)

CAROLYN M. FLEMING, ROBERT A. BRANCH, GRANT R. WILKINSON, AND F. PETER GUENGERICH. Human Liver Microsomal N-Hydroxylation of Dapsone by Cytochrome P-4503A4 ................................................................. 975

BARBARA J. CADARIO, GAIL D. BELLWARD, STELVIO BANDIERA, THOMAS K. H. CHANG, WENDY W. W. KO, EDITH LEMIEUX, AND RAPHAEL C. K. PAK. Imprinting of Hepatic Microsomal Cytochrome P-450 Enzyme Activities and Cytochrome P-450IIC11 by Peripubertal Administration of Testosterone in Female Rats ................................................................. 981