CONTENTS

ACCELERATED COMMUNICATIONS

FONG-SEN WU, TERRELL T. GIBBS, AND DAVID H. FARR. Pregnenolone Sulfate: A Positive Allosteric Modulator at the NMDA Receptor ...................................................... 333

Y. ZILBERTER, V. UTESHEV, S. SOKOLOVA, AND B. KHODOROV. Desensitization of N-Methyl-d-aspartate Receptors in Neurons Dissociated from Adult Rat Hippocampus 337

KENNETH B. WALSH. Activation of a Heart Chloride Current During Stimulation of Protein Kinase C .......................................................... 342

ARTICLES

DIANE F. MATESIC, DAVID R. MANNING, AND GARY R. LUTHIN. Tissue-Dependent Association of Muscarinic Acetylcholine Receptors with Guanine Nucleotide-Binding Regulatory Proteins ....................................................... 347

M. ORNATOWSKA AND J. A. GLASEL. Stereospecificity of Opiate Receptors in a Synchronized Culture of NG108-15 Cells Probed with Fluorescent Anti-idiotypic Antibodies . 354

DAVID T. DUDLEY, SUSAN E. HUBBELL, AND ROCHELLE M. SUMMERFELT. Characterization of Angiotensin II (AT2) Binding Sites in R3T3 Cells ......................... 360

JOSEPH P. ARENA, KEN K. LIU, PHILIP S. PARESS, AND DORIS F. CULLY. Avermectin-Sensitive Chloride Currents Induced by Caenorhabditis elegans RNA in Xenopus Oocytes ............................................................. 368

HIROKAZU FURUYA, URS A. MEYER, HARRY V. GELBOIN, AND FRANK J. GONZALEZ. Polymerase Chain Reaction-Directed Identification, Cloning and Quantification of Human CYP2C18 mRNA .................................................. 375

BETTINA HELLWIG AND HANS G. JOOST. Differentiation of Erythrocyte (GLUT1), Liver-(GLUT2) and Adipocyte-Type (GLUT4) Glucose Transporters by Binding of the Inhibitory Ligands Cytochalasin B, Forskolin, Dipyridamol and Isobutylmethylxanthine .................................................. 383

URS CHRISTEN, MARIA BÜRGIN, AND JOSEF GUT. Halothane Metabolism: Immunohistochemical Evidence for Molecular Mimicry of Trifluoroacetylated Liver Protein Adducts by Constitutive Polypeptides ........................................ 390

TAMAS BELLA, ALBERT J. BAUKAL, SAMUEL ENG, AND KEVIN J. CATT. Angiotensin II Receptor Subtypes and Biological Responses in the Adrenal Cortex and Medulla .... 401

JEFFREY K. HARRISON, DREW D. D’ANGELO, DEWAN ZENG, AND KEVIN R. LYNNCH. Pharmacological Characterization of Rat α2-Adrenergic Receptors ............... 407

Continued
MAGALI WAELBROECK, MICHELE TASTENOY, JEAN CAMUS, AND JEAN CHRISTOPHE. Binding Kinetics of Quinuclidinyl Benzilate and Methyl-quinuclidinyl Benzilate Enantiomers at Neuronal (M1), Cardiac (M2), and Pancreatic (M3) Muscarinic Receptors .................................................. 413

GARY RUDNICK AND STEPHEN C. WALL. Binding of the Cocaine Analog 2β[3H]Carboxymethoxy-3 β-(4-fluorophenyl)tropane to the Serotonin Transporter ......................... 421

RONALD ANDERSON, CONSTANCE J. VAN RENSBURG, GISELA K. JOONE, AND ALBERT LESSING. Auranofin Inactivates Phosphofructokinase in Human Neutrophils Leading to Depletion of Intracellular ATP and Inhibition of Superoxide Generation and Locomotion .................................................. 427

VLADIMIR MIŠÍK, ANDREJ STAŠKO, DALIBOR GERGEĽ, AND KAROL ONDRIAŠ. Spin-Trapping and Antioxidant Properties of Illuminated and Nonilluminated Nifedipine and Nimodipine in Heart Homogenate and Model System .................. 435

ROGER V. LLOYD, DAVID R. DULING, GALINA V. RUMYANTSEVA, RONALD P. MASON, AND PETER K. BRIDSON. Microsomal Reduction of 3-amino-1,2,4-benzotriazine 1,4-dioxide to a Free Radical ......................... 440

GREGORY YAMANAKA, A. V. TUOMARI, MOIRA HAGEN, BRIDGET McGEEVER-RUBIN, BRIAN TERRY, MARY HAFFEY, GREGORY S. BISACCHI, AND A. KIRK FIELD. Selective Activity and Cellular Pharmacology of (1R-1α, 2β, 3α)-9[2,3-bis(Hydroxymethyl)cyclobutyl]-guanine in Herpesvirus Infected Cells .................. 446

ASHER BEGLEITER, MARSHER K. LEITH, AND SU-SHU PAN. Mechanisms for the Modulation of Alkylating Activity by the Quinone Group in Quinone Alkylating Agents . . 454

Copyright © 1991 by The American Society for Pharmacology and Experimental Therapeutics

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of this article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (21 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1986 articles are the same as those shown for current articles.