CONTENTS

ACCELERATED COMMUNICATIONS

HARVEY J. GUYDA, LOUIS MATHEIU, WEI LAI, DAVID MANCHESTER, SHOU-LIH WANG, SUSAN O'GILVIE, AND KATHLEEN T. SHIVERICK. Benzo(a)pyrene Inhibits Epidermal Growth Factor Binding and Receptor Autophosphorylation in Human Placental Cell Cultures ......................................................... 137

GANG WANG, MARTIN DUGAS, BENJAMIN I. ARMAH, AND PETER HONERJAGER. Sodium Channel Comodification with Full Activator Reveals Veratridine Reaction Dynamics ................................. 144

ARTICLES

VICKRAM RAMKUMAR, WILLIAM W. BARRINGTON, KENNETH A. JACOBSON, AND GARY L. STILES. Demonstration of Both A1 and A2 Adenosine Receptors in DDT1 MF-2 Smooth Muscle Cells ................................................................. 149

ZHANG HAO, DAVID A. COONEY, DAVID FARQUHAR, CARLO F. Perno, K. ZHANG, R. MASOOD, YVONNE WILSON, NEIL R. HARTMAN, JAN BALZARINI, AND DAVID G. JOHNS. Potent DNA Chain Termination Activity and Selective Inhibition of Human Immunodeficiency Virus Reverse Transcriptase by 2',3'-Dideoxyuridine-5'-triphosphate ............................ 157

ALLA BERKOVICH, PETER MCPHEE, MARIE CAMPAGNONE, ALESSANDRO GUIDOTTI, AND PRESTON HENSLEY. A Natural Processing Product of Rat Diazepam Binding Inhibitor, Triakontatetraneuropeptide (Diazepam Binding Inhibitor 17–50) Contains an α-Helix, Which Allows Discrimination between Benzodiazepine Binding Site Subtypes .......................... 164


JEFFREY M. VOIGT, THOMAS T. KAWABATA, JON P. BURKE, MARTHA V. MARTIN, F. PETER GUENGERICH, AND JEFFREY BARON. In Situ Localization and Distribution of Xenobiotic-Activating Enzymes and Aryl Hydrocarbon Hydroxylase Activity in Lungs of Untreated Rats ........................................................................ 182

SUSAN P. C. COLE, HEATHER F. DOWNES, SHELACH E. L. MIRSKI, AND DEBRA J. CLEMENTS. Alterations in Glutathione and Glutathione-Related Enzymes in a Multidrug-Resistant Small Cell Lung Cancer Cell Line .......... 192


THEODORE J. TORPHY AND LENORA B. CIESLINSKI. Characterization and Selective Inhibition of Cyclic Nucleotide Phosphodiesterase Isozymes in Canine Tracheal Smooth Muscle ........................................ 206

JAMES D. SHULL AND JACK GORSKI. Regulation of Prolactin Gene Transcription In Vivo: Interactions Between Estrogen, Pimozide, and α-Ergocryptine ........................................................................ 215

OKSOON H. CHOI, WILLIAM L. PADGETT, YUKIO NISHIZAWA, FABIAN GUSOVSKY, TAKESHI YASUMOTO, AND JOHN W. DALY. Maitotoxin: Effects on Calcium Channels, Phosphoinositide Breakdown, and Arachidonate Release in Pheochromocytoma PC12 Cells ................................. 222

Continued
CONTENTS (cont’d)

EMANUEL MELLER, MENEK GOLDSTEIN, AND KAREN BOHMAKER. Receptor Reserve for 5-Hydroxytryptamine,1A-Mediated Inhibition of Serotonin Synthesis: Possible Relationship to Anxiolytic Properties of 5-Hydroxytryptamine1A Agonists .......................................................... 231

ULRICH KRAGH-HANSEN, STEPHEN O. BRENNAN, MONICA GALLIANO, AND OSAMU SUGITA. Binding of Warfarin, Salicylate, and Diazepam to Genetic Variants of Human Serum Albumin with Known Mutations ........................................................................... 238

LEE-YUAN LIU-CHEN, SHUXING LI, AND RONALD J. TALLARIDA. Studies on Kinetics of [3H]β-Funaltrexamine Binding to μ Opioid Receptor ........................................................................................................ 243

KIFLU BERHANE AND BENGT MANNERVIK. Inactivation of the Genotoxic Aldehyde Acrolein by Human Glutathione Transferases of Classes Alpha, Mu, and Pi .............................................................. 251

DORI J. THOMAS, ALBERT SADLER, VANGALA V. SUBRAHMANYAM, DAVID SIEGEL, MARK J. REASOR, DANIEL WIERDA, AND DAVID ROSS. Bone Marrow Stromal Cell Bioactivation and Detoxification of the Benzene Metabolite Hydroquinone: Comparison of Macrophages and Fibroblastoid Cells .................................................................................. 255

A. LESLIE MORROW, JOHN R. PACE, ROBERT H. PURDY, AND STEVEN M. PAUL. Characterization of Steroid Interactions with γ-Aminobutyric Acid Receptor-Gated Chloride Ion Channels: Evidence for Multiple Steroid Recognition Sites .................................................................................. 263

DAVID C. B. MILLS, KATHRYN HUNCHAK, DANIEL W. KARL, AND EDWARD P. KIRBY. Effect of Platelet Activation on the Agglutination of Platelets by von Willebrand Factor ........................................................................................................ 271

GUY MASSICOTTE, MARKUS KESSLER, GARY LYNCH, AND MICHEL BAUDRY. N-Methyl-d-aspartate and Quisqualate/DL-α-Amino-3-hydroxy-5-methylisoxazole-4-propionic Acid Receptors: Differential Regulation by Phospholipase C Treatment ........................................................................ 278

UBALDO LELI, GEORGE HAUSER, AND MARK FROIMOWITZ. Requirements for the Activation of Protein Kinase C: Comparison of the Molecular Geometries of Phorbol and Diacglycerol .................................................................................................................. 286

ROBERT A. JOHNSON AND MYRON L. TOEWS. Protein Kinase C Activators Sensitize Cyclic AMP Accumulation by Intact 1321N1 Human Astrocytoma Cells ........................................................................................................ 296

RUEY-RUEY C. HUANG, ROBERT N. DEHAVEN, ANNE H. CHEUNG, RONALD E. DIEHL, RICHARD A. F. DIXON, AND CATHERINE D. STRADER. Identification of Allosteric Antagonists of Receptor-Guanine Nucleotide-Binding Protein Interactions .......................................................................................... 304

KIRK R. MAPLES, PETER EYER, AND RONALD P. MASON. Aniline-, Phenylhydroxylamine-, Nitrosobenzene-, and Nitrobenzene-Induced Hemoglobin Thiyl Free Radical Formation In Vivo and In Vitro .................................................................................. 311

JOHN R. CASHMAN, LESLIE D. OLSEN, CHARLES E. LAMBERT, AND MARY J. PRESAS. Enantioselective S-Oxygenation of para-Methoxyphenyl-1,3-dithiolane by Various Tissue Preparations: Effect of Estradiol ........................................................................................................ 319

RAYMOND L. BLAKLEY, FRANKLIN C. HARWOOD, AND KEVIN D. HUFF. Cytostatic Effects of 2',3'-Dideoxyribonucleosides on Transformed Human Hemopoietic Cell Lines .................................................................................. 328

JOHN R. CASHMAN AND DAVID E. WILLIAMS. Enantioselective S-Oxygende of 2-Aryl-1,3-dithiolanes by Rabbit Lung Enzyme Preparations ........................................................................................................ 333

Copyright © 1990 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.