

CONTENTS

ACCELERATED COMMUNICATIONS

- HARVEY J. GUYDA, LOUIS MATHIEU, WEI LAI, DAVID MANCHESTER, SHOOU-LIH WANG, SUSAN OGILVIE, 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 HONERJÄGER. 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 MCPHIE, MARIE CAMPAGNONE, ALESSANDRO GUIDOTTI, AND PRESTON HENSLEY. A Natural Processing Product of Rat Diazepam Binding Inhibitor, Triakontatetrapeptide (Diazepam Binding Inhibitor 17-50) Contains an α -Helix, Which Allows Discrimination between Benzodiazepine Binding Site Subtypes 164
- B. J. MURPHY, C. A. ROGERS, R. K. SUNAHARA, S. LEMAIRE, AND B. S. TUANA. Identification, Characterization, and Photoaffinity Labeling of the Dihydropyridine Receptor Associated with the L-Type Calcium Channel from Bovine Adrenal Medulla 173
- 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, SHELAGH 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
- A. J. SHERRATT, D. E. BANET, AND R. A. PROUGH. Glucocorticoid Regulation of Polycyclic Aromatic Hydrocarbon Induction of Cytochrome P4501A1, Glutathione S-Transferases, and NAD(P)H:Quinone Oxidoreductase in Cultured Fetal Rat Hepatocytes 198
- 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

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly by Williams & Wilkins, 428 East Preston Street, Baltimore, MD 21202-3993. Price per year: USA individual rate \$85, Japan \$151 (includes air freight); all other countries, surface mail \$110. USA institutional rate \$185, Japan \$251 (includes air freight); all other countries, surface mail \$210. Single copies \$17 (\$20 foreign). (Prices subject to change.) All subscription orders should be addressed to Molecular Pharmacology, 428 East Preston Street, Baltimore, MD 21202-3993.

Second Class Postage paid at Baltimore, MD, and at additional mailing offices. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1990 by The American Society for Pharmacology and Experimental Therapeutics.

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-Hydroxytryptamine _{1A} 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, SHUIXING LI, AND RONALD J. TALLARIDA. Studies on Kinetics of [³ H]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 Diacylglycerol	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 <i>In Vivo</i> and <i>In Vitro</i>	311
JOHN R. CASHMAN, LESLIE D. OLSEN, CHARLES E. LAMBERT, AND MARY J. PRESAS. Enantioselective <i>S</i> -Oxygenation of <i>para</i> -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 <i>S</i> -Oxygenation 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.