

## CONTENTS

## ACCELERATED COMMUNICATIONS

- RAKESH DATTA, SURENDER KHARBANDA, AND DONALD KUFEL. Regulation of *jun*-B Gene Expression by 1- $\beta$ -D-Arabinofuranosylcytosine in Human Myeloid Leukemia Cells . . . 435
- THOMAS A. KOCAREK, ERIN G. SCHUETZ, AND PHILIP S. GUZELIAN. Differentiated Induction of Cytochrome P450b/e and P450p mRNAs by Dose of Phenobarbital in Primary Cultures of Adult Rat Hepatocytes . . . 440
- E. BROUILLET, C. CHAVOIX, M. KHALILI-VARASTEH, M. BOTTLAENDER, P. HANTRAYE, J.-C. YORKE, AND M. MAZIERE. Quantitative Evaluation of Benzodiazepine Receptors in Live *Papio papio* Baboons Using Positron Emission Tomography . . . 445
- DAVID L. DILOLO, MANFRED W. BEILHARZ, MAY C. LAI, AND RODNEY F. MINCHIN. Difluoromethylornithine Prevents the Down-regulation of Type I Interferon Receptors: A Possible Mechanism for a Synergistic Antiproliferative Effect . . . 451

## ARTICLES

- SPYRIDON VAMVAKAS, VIRENDRA K. SHARMA, SHEY-SHING SHEU, AND M. W. ANDERS. Perturbations of Intracellular Calcium Distribution in Kidney Cells by Nephrotoxic Haloalkenyl Cysteine S-Conjugates . . . 455
- CURTIS J. OMIECINSKI, CHRISTOPHER HASSETT, AND PAOLA COSTA. Developmental Expression and *In Situ* Localization of the Phenobarbital-Inducible Rat Hepatic mRNAs for Cytochromes CYP2B1, CYP2B2, CYP2C6, and CYP3A1 . . . 462
- WAI KWONG ENG, FRANCIS L. MCCABE, K. B. TAN, MICHAEL R. MATTERN, GLENN HOFMANN, RICHARD D. WOESSNER, ROBERT P. HERTZBERG, AND RANDALL K. JOHNSON. Development of a Stable Camptothecin-Resistant Subline of P388 Leukemia with Reduced Topoisomerase I Content . . . 471
- MAHIN D. MAINES. Multiple Forms of Biliverdin Reductase: Age-Related Change in Pattern of Expression in Rat Liver and Brain . . . 481
- GOPESH SRIVASTAVA, ANTHONY J. HANSEN, MICHAEL J. BAWDEN, AND BRIAN K. MAY. Hemin Administration to Rats Reduces Levels of Hepatic mRNAs for Phenobarbitone-Inducible Enzymes . . . 486
- JEAN-CLAUDE MARTEL, ALAIN FOURNIER, SERGE ST-PIERRE, YVAN DUMONT, MYLÈNE FOREST, AND RÉMI QUIRION. Comparative Structural Requirements of Brain Neuropeptide Y Binding Sites and Vas Deferens Neuropeptide Y Receptors . . . 494
- WAYNE C. GLASGOW AND THOMAS E. ELING. Epidermal Growth Factor Stimulates Linoleic Acid Metabolism in BALB/c 3T3 Fibroblasts . . . 503
- ANNE W. SCHMIDT AND STEPHEN J. PEROUTKA. Quantitative Molecular Analysis Predicts 5-Hydroxytryptamine<sub>3</sub> Receptor Binding Affinity . . . 511
- JÜRGEN WESS, TOM I. BONNER, FRANK DÖRJE, AND MARK R. BRANN. Delineation of Muscarinic Receptor Domains Conferring Selectivity of Coupling to Guanine Nucleotide-Binding Proteins and Second Messengers . . . 517
- STEPHEN J. KORN AND RICHARD HORN. Nordihydroguaiaretic Acid Inhibits Voltage-Activated Ca<sup>2+</sup> Currents Independently of Lipxygenase Inhibition . . . 524

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 \$90; all other countries, surface mail \$120. USA institutional rate \$195; all other countries, surface mail \$225. Single copies \$17 (\$20 foreign). (Prices subject to change.) Indexed by *Index Medicus*, *Current Contents/Life Sciences*, *Excerpta Medica*, *Current Awareness in Biological Sciences*, and *Nuclear Medicine Literature Updating and Indexing Service*. 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)

ANNE C. BARTON AND DAVID R. SIBLEY. Agonist-Induced Desensitization of D <sub>1</sub> -Dopamine Receptors Linked to Adenylyl Cyclase Activity in Cultured NS20Y Neuroblastoma Cells .....	531
ROBERT ROSKOSKI, JR., HARVEY WILGUS, AND KENT E. VRANA. Inactivation of Tyrosine Hydroxylase by Pterin Substrates Following Phosphorylation by Cyclic AMP-Dependent Protein Kinase .....	541
EILEEN L. WATSON, JEAN C. SINGH, COLIN MCPHEE, JOE BEAVO AND KERRY L. JACOBSON. Regulation of cAMP Metabolism in Mouse Parotid Gland by cGMP and Calcium .....	547
BRUCE M. BARON, BOYD L. HARRISON, FRANCIS P. MILLER, IAN A. McDONALD, FRANCESCO G. SALITURO, CHRISTOPHER J. SCHMIDT, STEPHEN M. SORENSEN, H. STEVEN WHITE, AND MICHAEL G. PALFREYMAN. Activity of 5,7-Dichlorokynurenic Acid, a Potent Antagonist at the N-Methyl-D-aspartate Receptor-Associated Glycine Binding Site .....	554
D. DE PROST, V. OLLIVIER, AND J. HAKIM. Pentoxifylline Inhibition of Procoagulant Activity Generated by Activated Mononuclear Phagocytes .....	562
VOLKER HEINEMANN, YI-ZHENG XU, SHERRI CHUBB, ALINA SEN, LARRY W. HERTEL, GERALD B. GRINDEY, AND WILLIAM PLUNKETT. Inhibition of Ribonucleotide Reduction in CCRF-CEM Cells by 2',2'-Difluorodeoxycytidine .....	567
JOHN R. CASHMAN AND LESLIE D. OLSEN. Stereoselective S-Oxygenation of 2-Aryl-1,3-dithiolanes by the Flavin-containing and Cytochrome P-450 Monooxygenases .....	573

### IMPORTANT ANNOUNCEMENT

On October 1, 1990, Dr. T. Kendall Harden became the new Editor-in-Chief of **Molecular Pharmacology**, and the editorial office moved to Chapel Hill, North Carolina. After October 1, 1990, all new manuscripts should be submitted to him at the address below:

T. Kendall Harden  
Molecular Pharmacology  
CB 7368, Department of Pharmacology  
University of North Carolina School of Medicine  
Chapel Hill, NC 27599-7368

The Seattle office will handle the entire review of manuscripts submitted before October 1, 1990, including consideration of revisions submitted subsequently.

---

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.