CONTENTS

ACCEL	.ERATED	COMMIIN	IICATIONS

FEDERICO GAGO AND W. GRAHAM RICHARDS. Netropsin Binding to Poly[d(IC)] poly[IC)] and Poly[d(GC] poly[d(GC)]: A Computer Simulation	341			
R. S. L. CHANG AND V. J. LOTTI. Two Distinct Angiotensin II Receptor Binding Sites in Rat Adrenal Revealed by New Selective Nonpeptide Ligands	347			
ARTICLES				
ALAN P. KOZIKOWSKI AND YUAN-PING PAN. Structural Determinants of Affinity for the Phencyclidine Binding Site of the N-Methyl-D-aspartate Receptor Complex: Discovery of a Rigid Phencyclidine Analogue of High Binding Affinity	352			
A. M. CESURA, M. BÖS, M. D. GALVA, R. IMHOF, AND M. DA PRADA. Characterization of the Binding of [3H]Ro 41-1049 to the Active Site of Human Monoamine Oxidase-A	358			
JITENDRA R. DAVE, BORIS TABAKOFF, AND PAULA L. HOFFMAN. Ethanol Withdrawal Seizures Produce Increased c-fos mRNA in Mouse Brain	367			
YVES VANDENBERGHE, FABRICE MOREL, SALLY PEMBLE, JOHN B. TAYLOR, VERA ROGIERS, DAMRONG RATANSAVANH, ANTOINE VERCRUYSSE, BRIAN KETTERER, AND ANDRÉ GUILLOUZO. Changes in Expression of mRNA Coding for Glutathione S-Transferase Subunits 1-2 and 7 in Cultured Rat Hepatocytes	372			
A. BAEZ, J. F. RIOU, J. B. LE PECQ, AND G. RIOU. Interaction of DNA Intercalator 3-Nitrobenzothiazolo (3,2-a)quinolinium with DNA topoisomerases: A Possible Mechanism for Its Biological Activity	377			
TOMMASO COSTA, JOCHEN LANG, CHRISTINE GLESS, AND ALBERT HERZ. Spontaneous Association between Opioid Receptors and GTP-Binding Regulatory Proteins in Native Membranes: Specific Regulation by Antagonists and Sodium Ions	383			
J. Balzarini, E. De Clercq, H. Baumgartner, M. Bodenteich, and H. Griengl. Carbocyclic 5-Iodo-2'-deoxyuridine (C-IDU) and Carbocyclic (E)-5-(2-Bromovinyl)-2'-deoxyuridine (C-BVDU) as Unique Examples of Chiral Molecules where the Two Enantiomeric Forms Are Biologically Active: Interaction of the (+)- and (-)-Enantiomers of C-IDU and C-BVDU with the Thymidine Kinase of Herpes Simplex Virus Type 1	395			
JAN BALZARINI, RIA BERNAERTS, ALFONS VERBRUGGEN, AND ERIK DE CLERCQ. Role of the Incorporation of (E)-5-(2-Iodovinyl)-2'-deoxyuridine and Its Carbocyclic Analogue into DNA of Herpes Simplex Virus Type 1-Infected Cells in the Antiviral Effects of These Compounds	402			
JOËL BOCKAERT, MICHÈLE SEBBEN, AND ALINE DUMUIS. Pharmacological Characterization of 5-Hydroxytryptamine, (5-HT4) Receptors Positively Coupled to Adenylate Cyclase in Adult Guinea Pig Hippocampal Membranes: Effect of Substituted Benzamide Derivatives	408			
GUIDO R. M. M. HAENEN, BEN M. DE ROOIJ, NICO P. E. VERMEULEN, AND AALT BAST. Mechanism of the Reaction of Ebselen with Endogenous Thiols: Dihydrolipoate Is a Better Cofactor than Glutathione in the Peroxidase Activity of Ebselen AMY L. BULLER AND MICHAEL M. WHITE. Functional Acetylcholine Receptors Expressed in Xenopus Oocytes after Injection of Torpedo β, γ, and δ Subunit RNAs Are a	412			
Consequence of Endogenous Oocyte Gene Expression	423			
W. B. IM, D. P. BLAKEMAN, J. P. DAVIS, AND D. E. AYER. Studies on the Mechanism of Interactions between Anesthetic Steroids and γ -Aminobutyric Acid _A Receptors	429			

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.

Protein Generates a Pool of Ferric Iron Required for the Killing of Cultured Hepatocytes by an Oxidative Stress	435
HENRY D. CONNOR, LYNN B. LACAGNIN, KATHRYN T. KNECHT, RONALD G. THURMAN, AND RONALD P. MASON. Reaction of Glutathione with a Free Radical Metabolite of Carbon Tetrachloride	44 3
Luc Koymans, Joop H. Van Lenthe, Gabrielle M. Donné-op Den Kelder and Nico P. E. Vermeulen. Mechanisms of Activation of Phenacetin to Reactive Metabolites by Cytochrome P-450: A Theoretical Study Involving Radical Intermediates	452
EVA GRAPENGIESSER, ERIK GYLFE, AND BO HELLMAN. Sulfonylurea Mimics the Effect of Glucose in Inducing Large Amplitude Oscillations of Cytoplasmic Ca^{2+} in Pancreatic β -Cells	461
PATRICK J. HAYDEN AND JAMES L. STEVENS. Cysteine Conjugate Toxicity, Metabolism, and Binding to Macromolecules in Isolated Rat Kidney Mitochondria	468

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.