

## CONTENTS

## ACCELERATED COMMUNICATION

- DAVID G. SAWUTZ, STEPHEN M. LANIER, CHRISTOPHER D. WARREN, AND ROBERT M. GRAHAM. Glycosylation of the Mammalian  $\alpha_1$ -Adrenergic Receptor by Complex Type N-Linked Oligosaccharides . . . . . 565

## ARTICLES

- GEOFFREY I. SUNAHARA, KAREN G. NELSON, THOMAS K. WONG, AND GEORGE W. LUCIER. Decreased Human Birth Weights after *In Utero* Exposure to PCBs and PCDFs Are Associated with Decreased Placental EGF-Stimulated Receptor Autophosphorylation Capacity . . . . . 572
- STANLEY A. THAYER, LANE D. HIRNING, AND RICHARD J. MILLER. The Distribution of Multiple Types of  $Ca^{2+}$  Channels in Rat Sympathetic Neurons *In Vitro* . . . . . 579
- C. FRANK BENNETT, SEYMOUR MONG, HSIAO-LING W. WU, MIKE A. CLARK, LARRY WHEELER, AND STANLEY T. CROOKE. Inhibition of Phosphoinositide-Specific Phospholipase C by Manoalide . . . . . 587
- A. BEAUMONT, J.-F. HERNANDEZ, P. CHAILLET, P. CRINE, AND B. P. ROQUES. Irreversible Photolabeling of the Active Site of Neutral Endopeptidase-24.11 "Enkephalinase" by Azidothiorphan and [ $^{14}C$ ]-Azidothiorphan . . . . . 594
- MARY McGRATH, DUILIO CASCIO, ROGER WILLIAMS, DAVID JOHNSON, MARIE GREENE, AND ALEXANDER MCPHERSON. Propidium Binding to a Ribonuclease-DNA Complex: X-Ray and Fluorescence Studies . . . . . 600
- JONATHAN MAYBAUM, ANDREW N. BAINNSON, W. MAURICE ROETHEL, SUDHIR AJMERA, LYNN M. IWANIEC, DANIEL TERBUSH, AND JEFFREY J. KROLL. Effects of Incorporation of 6-Thioguanine into SV 401 DNA . . . . . 606
- DAVID J. WAXMAN, DAVID P. LAPENSON, SANG S. PARK, CYNTHIA ATTISANO, AND HARRY V. GELBOIN. Monoclonal Antibodies Inhibitory to Rat Hepatic Cytochromes P-450: P-450 Form Specificities and Use as Probes for Cytochrome P-450-Dependent Steroid Hydroxylations . . . . . 615
- GREGORY A. WEILAND, JULIE A. DURKIN, JEREMY M. HENLEY, AND STEVEN M. SIMASKO. Effects of Substance P on the Binding of Ligands to Nicotinic Acetylcholine Receptors . . . . . 625
- M. J. CHRISTIE, J. T. WILLIAMS, AND R. A. NORTH. Cellular Mechanisms of Opioid Tolerance: Studies in Single Brain Neurons . . . . . 633
- H. CRISS HARTZELL AND RODOLPHE FISCHMEISTER. Effect of Forskolin and Acetylcholine on Calcium Current in Single Isolated Cardiac Myocytes . . . . . 639
- HERVÉ PARIS, MOHAMMED TAOUIS, AND JEAN GALITZKY. *In Vitro* Study of  $\alpha_2$ -Adrenoceptor Turnover and Metabolism Using the Adenocarcinoma Cell Line HT29 . . . . . 646
- ALI NASSERI AND KENNETH P. MINNEMAN. Relationship between  $\alpha_2$ -Adrenergic Receptor Binding Sites and the Functional Receptors Inhibiting Norepinephrine Release in Rat Cerebral Cortex . . . . . 655
- R. K. RIEMER, ALAN GOLDFIEN, AND JAMES M. ROBERTS. Estrogen Increases Adrenergic-But Not Cholinergic-Mediated Production of Inositol Phosphates in Rabbit Uterus . . . . . 663
- L. NORONHA-BLOB, V. C. LOWE, W. J. KINNIER, AND D. C. U'PRICHARD. Heterologous Up-Regulation of  $N_i$ -Coupled Receptors in Cultured Neural Hybrid Cells by a Transferable Factor, Whose Expression Is Inhibited in a Cyclic AMP-Dependent, Cell-Specific Manner . . . . . 669
- GABRIEL AMITAI, JEFFREY M. HERZ, RACHEL BRUCKSTEIN, AND SHIRA LUZ-CHAPMAN. The Muscarinic Antagonists Apropen and Benactyzine Are Noncompetitive Inhibitors of the Nicotinic Acetylcholine Receptor . . . . . 678

Continued

MOLECULAR PHARMACOLOGY (ISSN 0026-895x) is published monthly by The American Society for Pharmacology and Experimental Therapeutics, 428 East Preston Street, Baltimore, MD 21202. Price per year: USA individual rate \$75.00; Japan \$123.00 (includes air freight); all other countries, surface mail \$90.00. USA institutional rate \$165.00; Japan \$213.00 (includes air freight); all other countries, surface mail \$180.00. (Prices subject to change). All subscription orders should be addressed to Molecular Pharmacology, 428 East Preston Street, Baltimore, MD 21202.

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.

Copyright © 1987 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

MELVIN REICHMAN, WU NEN, AND LOWELL E. HOKIN. Effects of $\Delta^9$ -Tetrahydrocannabinol on Prostaglandin Formation in Brain .....	686
TOHRU GONOI, YASUSHI OHIZUMI, JUN'ICHI KOBAYASHI, HIDESHI NAKAMURA, AND WILLIAM A. CATTERALL. Actions of Polypeptide Toxin from the Marine Snail <i>Conus striatus</i> on Voltage-Sensitive Sodium Channels .....	691
ROMAN OSMAN, SID TOPIOL, LESTER RUBENSTEIN, AND HAREL WEINSTEIN. A Molecular Model for Activation of a 5-Hydroxytryptamine Receptor .....	699
RICHARD T. OKITA, ROY J. SOBERMAN, J. M. BERGHOLTE, BETTIE SUE S. MASTERS, ROGER HAYES, AND ROBERT C. MURPHY. $\omega$ -Hydroxylation of 15-Hydroxyeicosatetraenoic Acid by Lung Microsomes from Pregnant Rabbits .....	706
KARL L. PLATT AND I. REISCHMANN. Regio- and Stereoselective Metabolism of Dibenz[ <i>a,h</i> ]anthracene: Identification of 12 New Microsomal Metabolites .....	710

---

Copyright © 1987 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.