

## CONTENTS

## ACCELERATED COMMUNICATIONS

- GUILIA PUJA, STEFANO VICINI, PETER H. SEEBURG, AND ERMINIO COSTA. Influence of Recombinant  $\gamma$ -Aminobutyric Acid<sub>A</sub> Receptor Subunit Composition on the Action of Allosteric Modulators of  $\gamma$ -Aminobutyric Acid-Gated Cl<sup>-</sup> Currents ..... 691
- ERIC RUBIN, SURENDER KHARBANDA, HISATO GUNJI, AND DONALD KUFE. Activation of the *C-jun* Protooncogene in Human Myeloid Leukemia Cells Treated With Etoposide ..... 697

## ARTICLES

- J. KEVIN O'DONNELL, RAYMOND W. SWEET AND JEFFREY M. STADEL. Expression and Characterization of the Long and Short Splice Variants of G<sub>sα</sub> in S49 *cyc*<sup>-</sup> Cells ..... 702 ✓
- MICHAEL E. WHALIN, JONATHAN G. SCAMMELL, SAMUEL J. STRADA, AND W. J. THOMPSON. Phosphodiesterase II, cGMP-Activatable Cyclic Nucleotide Phosphodiesterase Regulates Cyclic AMP Metabolism in PC12 Cells ..... 711
- MARINA COOLS, JAN BALZARINI, AND ERIK DE CLERCQ. Mechanism of Antiviral and Cytotoxic Action of (±)-6'β-Fluoroaristeromycin, a Potent Inhibitor of *S*-Adenosylhomocysteine Hydrolase ..... 718
- GÁBOR MAKSAI, ZSUZSANNA TEGYEY, AND MIKLÓS SIMONYI. Central Benzodiazepine Receptors: *In Vitro* Efficacies and Potencies of 3-Substituted 1,4-Benzodiazepine Stereoisomers ..... 725
- KIM A. NEVE, BARBARA A. COX, ROBERT A. HENNINGSEN, ATHENA SPANOYANNIS, AND RACHAEL L. NEVE. Pivotal Role for Aspartate-80 in the Regulation of Dopamine D2 Receptor Affinity for Drugs and Inhibition of Adenylyl Cyclase ..... 733 ✓
- MELISSA A. PROLL AND RICHARD B. CLARK. Potent G<sub>i</sub>-Mediated Inhibition of Adenylyl Cyclase by a Phosphonate Analog of Monooleylphosphatidate ..... 740 ✗
- JOHN G. BAIRD, R. A. JOHN CHALLISS, AND STEFAN R. NAHORSKI. Role for Ionotropic and Metabotropic Receptors in Quisqualate-Stimulated Inositol Polyphosphate Accumulation in Rat Cerebral Cortex ..... 745
- STEPHEN T. SAFRANY, RICHARD J. H. WOJCIKIEWICZ, JAMES STRUPISH, JULIE MCBAIN, ALLAN M. COOKE, BARRY V. L. POTTER, AND STEFAN R. NAHORSKI. Synthetic Phosphorothioate-Containing Analogues of Inositol 1,4,5-Trisphosphate Mobilize Intracellular Ca<sup>2+</sup> Stores and Interact Differentially with Inositol 1,4,5-Trisphosphate 5-Phosphatase and 3-Kinase ..... 754
- STANKO S. STOJILKOVIĆ, TOSHIHIKO IIDA, FRANCESCO MERELLI, AND KEVIN J. CATT. Calcium Signaling and Secretory Responses in Endothelin-Stimulated Anterior Pituitary Cells ..... 762
- JAMES R. HAMMOND. Kinetic Analysis of Ligand Binding to the Ehrlich Cell Nucleoside Transporter: Pharmacological Characterization of Allosteric Interactions with the [<sup>3</sup>H]Nitrobenzylthioinosine Binding Site ..... 771
- LINDA J. CORNFIELD, GEORGINA LAMBERT, LARS-ERIK ARVIDSSON, CHARLOTTA MELLIN, JERK VALLGARDA, ULI HACKSELL, AND DAVID L. NELSON. Intrinsic Activity of

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*, and *Current Awareness in Biological Sciences*. 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. The GST Tax number for Canadian subscribers is 123394371. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1991 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

|                                                                                                                                                                                                                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Enantiomers of 8-Hydroxy-2-(di- <i>n</i> -propylamino)tetralin and Its Analogs at 5-Hydroxytryptamine <sub>1A</sub> Receptors That Are Negatively Coupled to Adenylate Cyclase .....                                                                                                                                                                                | 780 |
| SAN-BAO HWANG AND SU WANG. Wheat Germ Agglutinin Potentiates Specific Binding of Platelet-Activating Factor to Human Platelet Membranes and Induces Platelet-Activating Factor Synthesis in Intact Platelets .....                                                                                                                                                  | 788 |
| TAPAN K. CHATTERJEE AND RORY A. FISHER. Multiple Affinity Forms of the Calcitonin Gene-Related Peptide Receptor in Rat Cerebellum .....                                                                                                                                                                                                                             | 798 |
| MASANORI BABA, ERIK DE CLERCQ, HIROMICHI TANAKA, MASARU UBASAWA, HIDEAKI TAKASHIMA, KOUICHI SEKIYA, ISSEI NITTA, KOHEI UMEZU, RICHARD T. WALKER, SHUICHI MORI, MASAHIKO ITO, SHIRO SHIGETA, AND TADASHI MIYASAKA. Highly Potent and Selective Inhibition of Human Immunodeficiency Virus Type 1 By a Novel Series of 6-Substituted Acyclouridine Derivatives .....  | 805 |
| NORIE MURAYAMA, MIKI SHIMADA, YASUSHI YAMAZOE, AND RYUICHI KATO. Difference in the Susceptibility of Two Phenobarbital-Inducible Forms, P450IIB1 and P450IIB2, to Thyroid Hormone- and Growth Hormone-Induced Suppression in Rat Liver: Phenobarbital-Inducible P450IIB2 Suppression by Thyroid Hormone Acting Directly, but not Through the Pituitary System ..... | 811 |
| ROBERT W. JANSEN, GRIETJE MOLEMA, RUDI PAUWELS, DOMINIQUE SCHOLS, ERIK DE CLERCQ, AND DIRK K. F. MEIJER. Potent <i>In Vitro</i> Anti-Human Immunodeficiency Virus-1 Activity of Modified Human Serum Albumins .....                                                                                                                                                 | 818 |
| ERRATUM .....                                                                                                                                                                                                                                                                                                                                                       | 824 |
| AUTHOR INDEX FOR VOLUME 39 .....                                                                                                                                                                                                                                                                                                                                    | 825 |
| SUBJECT INDEX FOR VOLUME 39 .....                                                                                                                                                                                                                                                                                                                                   | 832 |

---

Copyright © 1991 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.