

Contents

ACCELERATED COMMUNICATIONS

- 499 Identification of Partial Agonists with Low Intrinsic Activity at the Inositol 1,4,5-Trisphosphate Receptor S. T. Safrany, R. A. Wilcox, C. Liu, D. Dubreuil, B. V. L. Potter, and S. R. Nahorski
- 504 Nuclear Uptake of the Ah (Dioxin) Receptor in Response to Omeprazole: Transcriptional Activation of the Human *CYP1A1* Gene Linda C. Quattrochi and Robert H. Tukey

ARTICLES

- 509 Production and Characterization of Antibodies Specific for the Imidazoline Receptor Protein H. Wang, S. Regunathan, D. A. Ruggiero, and D. J. Reis
- 516 Identification of Residues Important for Ligand Binding to the Human 5-Hydroxytryptamine_{1A} Serotonin Receptor Pranab K. Chanda, Michael C. W. Minchin, Alan R. Davis, Lynda Greenberg, Yvonne Reilly, William H. McGregor, Ramesh Bhat, Michael D. Lubeck, Satoshi Mizutani, and Paul P. Hung
- 521 Kinetics of Different Human Immunodeficiency Virus Type 1 Reverse Transcriptases Resistant to Human Immunodeficiency Virus Type 1-Specific Reverse Transcriptase Inhibitors Z. Debyser, K. De Vreese, P. P. Knops-Gerrits, V. Baekelandt, R. Bhikhabhai, B. Strandberg, R. Pauwels, J. Anné, J. Desmyter, and E. De Clercq
- 527 Regulation of Thymidylate Synthase in Human Colon Cancer Cells Treated with 5-Fluorouracil and Interferon- γ Edward Chu, David M. Koeller, Patrick G. Johnston, Sydelle Zinn, and Carmen J. Allegra

Continued

MOLECULAR PHARMACOLOGY (MOL/ISSN 0026-895X) is an official publication of The American Society for Pharmacology and Experimental Therapeutics and is published monthly, two volumes a year, beginning in January and July, by Williams & Wilkins, 428 E. Preston St., Baltimore, MD 21202-3993. Second class postage paid at Baltimore, MD and at additional mailing offices. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 E. Preston St., Baltimore, MD 21202-3993. **Subscription Rates:** U.S.: *Personal* \$105; *Institutions* \$230; *Single copy* \$19. **Outside the U.S., except Japan:** *Personal* \$135; *Institutional* \$260; *Single copy* \$23. Foreign prices exclude Japan. **See Information for Subscribers for detailed instructions.** The GST Tax Number for Canadian subscribers is 123394371. **PRICES ARE SUBJECT TO CHANGE.** Indexed by *Index Medicus*, *Current Contents (Life Sciences)*, *Excerpta Medica*, and *Current Awareness in Biological Sciences*. Copyright © 1993 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

- 534 Microsomal Hydroxylation of 2- and 4-Fluoroestradiol to Catechol Metabolites and Their Conversion to Methyl Ethers: Catechol Estrogens as Possible Mediators of Hormonal Carcinogenesis
Stephen P. Ashburn, Xueliang Han, and Joachim G. Liehr
- 542 Mechanism of Hepatic Cytochrome P450 Modulation during *Listeria monocytogenes* Infection in Mice
Steven G. Armstrong and Kenneth W. Renton
- 548 The Human β_3 -Adrenergic Receptor Is Resistant to Short Term Agonist-Promoted Desensitization
François Nantel, H el ene Bonin, Laurent J. Emorine, Vladimir Zilberfarb, A. Donny Strosberg, Michel Bouvier, and Stefano Marullo
- 556 Coupling of Prostaglandin E_1 Receptors to the Stimulatory GTP-Binding Protein G_s Is Enhanced in Neuroblastoma \times Glioma (NG108-15) Hybrid Cells Chronically Exposed to an Opioid
H. Ammer and R. Schulz
- 564 Efflux of Cyclic GMP from Activated Human Platelets
Xiao-Bing Wu, Bernhard Br une, Frank von Appen, and Volker Ullrich
- 569 G Protein-Linked Receptors Labeled by [3H]Histamine in Guinea Pig Cerebral Cortex. I. Pharmacological Characterization
William G. Sinkins, Marianne Kandel, Stephen I. Kandel, Walter Schunack, and James W. Wells
- 583 G Protein-Linked Receptors Labeled by [3H]Histamine in Guinea Pig Cerebral Cortex. II. Mechanistic Basis for Multiple States of Affinity
William G. Sinkins and James W. Wells
- 595 [3H]PD 140376: A Novel and Highly Selective Antagonist Radioligand for the Cholecystokinin $_B$ /Gastrin Receptor in Guinea Pig Cerebral Cortex and Gastric Mucosa
J. C. Hunter, N. Suman-Chauhan, K. G. Meecham, V. U. K. Dissanayake, D. R. Hill, M. C. Pritchard, C. O. Kneen, D. C. Horwell, J. Hughes, and G. N. Woodruff
- 603 New Signaling Mechanism of Angiotensin II in Neuroblastoma Neuro-2A Cells: Activation of Soluble Guanylyl Cyclase via Nitric Oxide Synthesis
Shigeyuki Chaki and Tadashi Inagami
- 609 Characterization of Bicuculline/Baclofen-Insensitive (ρ -like) γ -Aminobutyric Acid Receptors Expressed in *Xenopus* Oocytes. II. Pharmacology of γ -Aminobutyric Acid $_A$ and γ -Aminobutyric Acid $_B$ Receptor Agonists and Antagonists
R. M. Woodward, L. Polenzani, and R. Mileli
- 626 Immobilization of Sodium Channel Gating Charge in Crayfish Giant Axons by the Insecticide Fenvalerate
Vincent L. Salgado and Toshio Narahashi

Continued

CONTENTS (cont'd)

- | | | |
|-----|---|--|
| 635 | Site-Directed Mutagenesis of the Putative Pore Region of the Rat IIA Sodium Channel | Kris J. Kontis and Alan L. Goldin |
| 645 | Reexamination of the Microsomal Transformation of <i>N</i> -Hydroxynorcocaine to Norcocaine Nitroxide | Roger V. Lloyd, Louis Shuster, and Ronald P. Mason |
| 649 | Human Bilirubin UDP-Glucuronosyltransferase Catalyzes the Glucuronidation of Ethinylestradiol | Thomas Ebner, Rory P. Remmel, and Brian Burchell |

Copyright © 1993 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.