MOLECULAR PHARMACOLOGY

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 <i>Listeria monocytogenes</i> 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, Hélène 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 Brüne, Frank von Appen, and Volker Ullrich
569	G Protein-Linked Receptors Labeled by [³ H]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 $(\rho\text{-like}) \ \gamma\text{-Aminobutyric}$ 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. Miledi
626	Immobilization of Sodium Channel Gating Charge in Crayfish Giant Axons by the Insecticide Fenvalerate	Vincent L. Salgado and Toshio Narahashi

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 N-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 rerieval 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.