

## ACCELERATED COMMUNICATIONS

- |     |   |  |
|-----|---|--|
| 127 | Subtype Selectivity of a Novel Endothelin Antagonist, FR139317, for the Two Endothelin Receptors in Transfected Chinese Hamster Ovary Cells                             | Ichiro Aramori, Hisataka Nirei, Miwako Shoubo, Keizo Sogabe, Kozo Nakamura, Hitoshi Kojo, Yoshitada Notsu, Takaharu Ono, and Shigetada Nakanishi |
| 132 | Regulation of Basic Fibroblast Growth Factor and Nerve Growth Factor mRNA by $\beta$ -Adrenergic Receptor Activation and Adrenal Steroids in Rat Central Nervous System | Paolo Follesa and Italo Mochetti   |

## ARTICLES

- |     |   |   |
|-----|---|---|
| 139 | Biochemical Characterization of a 22-kDa High Affinity Antiischemic Drug-Binding Polypeptide in the Endoplasmic Reticulum of Guinea Pig Liver: Potential Common Target for Antiischemic Drug Action | Fabian F. Moebius, Gregory G. Burrows, Jörg Striessnig, and Hartmut Glossmann   |
| 149 | Development of Antisera Selective for m4 and m5 Muscarinic Cholinergic Receptors: Distribution of m4 and m5 Receptors in Rat Brain  | Robert P. Yasuda, William Ciesla, Lauren R. Flores, Stephen J. Wall, Min Li, Sean A. Satkus, Jason S. Weisstein, Brad V. Spagnola, and Barry B. Wolfe |
| 158 | Ethanol Differentially Regulates Guanine Nucleotide-Binding Protein $\alpha$ Subunit Expression in NG108-15 Cells Independently of Extracellular Adenosine  | Robert J. Williams, Mark A. Veale, Peter Horne, and Eamonn Kelly  |
| 167 | Solubilization and Characterization of a Guanine Nucleotide-Sensitive Form of the Calcitonin Gene-Related Peptide Receptor  | Tapan K. Chatterjee, Jadine A. Moy, John J. Cai, Hon-Chi Lee, and Rory A. Fisher  |

*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.

---

This One



FB7P-18H-EWWN

# CONTENTS (cont'd)

176	Inhibition by Glucocorticoids of the Formation of Interleukin-1 $\alpha$ , Interleukin-1 $\beta$ , and Interleukin-6: Mediation by Decreased mRNA Stability	Yoshikazu Amano, Simon W. Lee, and Anthony C. Allison
183	Purification from Liver Microsomes from Untreated Cynomolgus Monkeys of Cytochrome P450 Closely Related to Human Cytochrome P450 2B6	Shigeru Ohmori, Chizu Shirakawa, Keiko Motohashi, Hisae Yoshida, Hiroko Abe, Toshihiro Nakamura, Tohru Horie, Haruo Kitagawa, Kazuo Asaoka, Tadaaki Rikihisa, Yoshio Kanakubo, and Mitsukazu Kitada
191	Quinolone Antibacterial Agents: Relationship between Structure and <i>In Vitro</i> Inhibition of the Human Cytochrome P450 Isoform 1A2	Uwe Fuhr, Günter Strobl, Francesc Manaut, Eva-Maria Anders, Fritz Sörgel, Elena Lopez-de-Brinas, Daniel T. W. Chu, Andre G. Pernet, Gerhard Mahr, Ferran Sanz, and A. Horst Staib
200	$\alpha$ -Naphthoflavone-Induced <i>CYP1A1</i> Gene Expression and Cytosolic Aryl Hydrocarbon Receptor Transformation	M. Santostefano, M. Merchant, L. Arellano, V. Morrison, M. S. Denison, and Stephen H. Safe
207	Topoisomerase II Activity Involved in Cleaving DNA into Topological Domains Is Altered in a Multiple Drug-Resistant Chinese Hamster Ovary Cell Line	Daniel M. Sullivan, Lou Ann Eskildsen, Kathleen R. Groom, Charles D. Webb, Michael D. Latham, Alvin W. Martin, Samuel R. Wellhausen, Paul E. Kroeger, and Thomas C. Rowe
217	Identification of the Benzomorphan Opiate Binding Site on the Catalytic Subunit of Acetylcholinesterase	Barbara A. Coleman and Robert E. Oswald
226	Rat Small Intestinal Cytochromes P450 Probed by Warfarin Metabolism	Michael J. Fasco, Jay B. Silkworth, Deborah A. Dunbar, and Laurence S. Kaminsky
234	Correlation of Human Cytochrome P4502C Substrate Specificities with Primary Structure: Warfarin as a Probe	Laurence S. Kaminsky, Sonia M. F. de Moraes, Michael B. Faletto, Deborah A. Dunbar, and Joyce A. Goldstein
240	Differences in Affinity and Efficacy of Benzodiazepine Receptor Ligands at Recombinant $\gamma$ -Aminobutyric Acid $_A$ Receptor Subtypes	K. A. Wafford, P. J. Whiting, and J. A. Kemp
245	$\beta\gamma$ Subunits of Guanine Nucleotide-Binding Proteins and Regulation of Spontaneous Receptor Activity: Thermodynamic Model for the Interaction between Receptors and Guanine Nucleotide-Binding Protein Subunits	H. Ongun Onaran, Tommaso Costa, and David Rodbard

Continued

# CONTENTS (cont'd)

257	Electron Spin Resonance Spin-Trapping Investigation into the Effects of Paraquat and Desferrioxamine on Hydroxyl Radical Generation during Acute Iron Poisoning	Mark J. Burkitt, Maria B. Kadiiska, Phillip M. Hanna, Sandra J. Jordan, and Ronald P. Mason
264	Binding of the Cocaine Analog 2 $\beta$ -Carbomethoxy-3 $\beta$ -(4-[ <sup>125</sup> I]iodophenyl)tropane to Serotonin and Dopamine Transporters: Different Ionic Requirements for Substrate and 2 $\beta$ -Carbomethoxy-3 $\beta$ -(4-[ <sup>125</sup> I]iodophenyl)tropane Binding	Stephen C. Wall, Robert B. Innis, and Gary Rudnick
271	Non-neurotoxic Amphetamine Derivatives Release Serotonin through Serotonin Transporters	Gary Rudnick and Stephen C. Wall
277	Functional Expression of Adenosine A <sub>2b</sub> Receptor in <i>Xenopus</i> Oocytes	J. L. Yakel, R. A. Warren, S. M. Reppert, and R. Alan North
281	D <sub>1A</sub> Dopamine Receptor Stimulation Inhibits Na <sup>+</sup> /K <sup>+</sup> -ATPase Activity through Protein Kinase A	Akira Horiuchi, Kunio Takeyasu, M. Maral Mouradian, Pedro A. Jose, and Robin A. Felder
286	Regulation of Phosphatidylinositol 4-Kinase Activity in Rat Pancreatic Acini	Bruce R. Conway, Matthew Withiam-Leitch, and Ronald P. Rubin
293	Heterogeneity of L-Type Calcium Channel $\alpha_1$ Subunits: Stereoselective Discrimination of Different Populations by the Novel 1,4-Dihydropyridine B 874-67	Marion Lakitsch, Hans-Günther Knaus, Gerda Topar, Christoph Romanin, Rainer Boer, Dieter Flockerzi, Jörg Striessnig, Hansgeorg Schindler, Hans-Dieter Hoeltje, and H. Glossmann
302	Pharmacological Characterization of a Receptor for Platelet-Activating Factor on Guinea Pig Peritoneal Macrophages using [ <sup>3</sup> H]Apafant, a Selective and Competitive Platelet-Activating Factor Antagonist: Evidence that the Noncompetitive Behavior of Apafant in Functional Studies Relates to Slow Kinetics of Dissociation	Patrick C. Ring, Paul M. Seldon, Peter J. Barnes, and Mark A. Giembycz

---

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.