

Contents

ACCELERATED COMMUNICATIONS

- | | | |
|-----|--|---|
| 425 | Interaction between the Nonpeptide Angiotensin Antagonist SKF-108,566 and Histidine 256 (His VI:16) of the Angiotensin Type 1 Receptor | Hans T. Schambye, Siv A. Hjorth, Joseph Weinstock, and Thue W. Schwartz |
| 432 | Orientation of the Heterodimeric Aryl Hydrocarbon (Dioxin) Receptor Complex on its Asymmetric DNA Recognition Sequence | Steven G. Bacsi, Suzanne Reisz-Porszasz, and Oliver Hankinson |

ARTICLES

- | | | |
|-----|---|---|
| 439 | Norepinephrine Stimulation of Pineal Cyclic AMP Response Element-Binding Protein Phosphorylation: Primary Role of a β -Adrenergic-Receptor/Cyclic AMP Mechanism | Patrick H. Roseboom and David C. Klein |
| 450 | Differential Ergoline and Ergopeptine Binding to 5-Hydroxytryptamine _{2A} Receptors: Ergolines Require an Aromatic Residue at Position 340 for High Affinity Binding | M. S. Choudhary, N. Sachs, A. Uluer, R. A. Glennon, R. B. Westkaemper, and B. L. Roth |
| 458 | Functional Serotonin-2B Receptors Are Expressed by a Teratocarcinoma-Derived Cell Line during Serotonergic Differentiation | Sylvain Loric, Luc Maroteaux, Odile Kellermann, and Jean-Marie Launay |
| 467 | Molecular Cloning and Expression of a Human Secretin Receptor | Derek R. Patel, Yvonne Kong, and Sunil P. Sreedharan |

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; Institutional \$230; Single copy \$19. Outside the U.S., except for 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. Country of origin USA. PRICES ARE SUBJECT TO CHANGE. Indexed by *Index Medicus*, *Current Contents (Life Sciences)*, *Excerpta Medica*, *Reference Update/Research Information Systems*, and *Current Awareness in Biological Sciences*. Copyright © 1995 by The American Society for Pharmacology and Experimental Therapeutics.

CONTENTS (cont'd)

- 474 **Insulin Down-regulates Cytochrome P450 2B and 2E Expression at the Post-transcriptional Level in the Rat Hepatoma Cell Line**
Isabelle de Waziers, Michele Garlatti, Jacqueline Bouguet, Philippe Henri Beaune, and Robert Barouki
- 480 **Distinct Roles for Arginines in Transmembrane Helices 6 and 7 of the Thyrotropin-Releasing Hormone Receptor**
Jeffrey H. Perlman, Liisa Laakkonen, Roman Osman, and Marvin C. Gershengorn
- 485 **Regulation of Airway Muscarinic Cholinergic Receptor Subtypes by Chronic Anticholinergic Treatment**
Paula A. Witt-Enderby, Henry I. Yamamura, Marilyn Halonen, Josephine Lai, John D. Palmer, and John W. Bloom
- 491 **Nonopioid Mechanism of Morphine Modulation of the Activation of 5-Hydroxytryptamine Type 3 Receptors**
P. Fan
- 496 **Sodium Fluoride Stimulates Exocytosis at a Late Site of Calcium Interaction in Stimulus-Secretion Coupling: Studies with the RINm5F β Cell Line**
Mitsuhisa Komatsu, Alison M. McDermott, and Geoffrey W. G. Sharp
- 509 **Heterologous Desensitization of Both Phosphoinositide and Ca^{2+} Signaling in SH-SY5Y Neuroblastoma Cells: Role for Intracellular Ca^{2+} Store Depletion?**
G. B. Willars and S. R. Nahorski
- 517 **Nitric Oxide Modulation of Agonist-Evoked Intracellular Ca^{2+} Release in Neurosecretory PC-12 Cells: Inhibition of Phospholipase C Activity via Cyclic GMP-Dependent Protein Kinase I**
Emilio Clementi, Immacolata Vecchio, Clara Sciorati, and Giuseppe Nisticò
- 525 **Signal Transduction Pathways for B_1 and B_2 Bradykinin Receptors in Bovine Coronary Pulmonary Artery Endothelial Cells**
Jacqueline A. M. Smith, Craig Webb, Jeffrey Holford, and Gillian M. Burgess
- 535 **Sodium-Retaining Activity of Some Natural and Synthetic 21-Deoxysteroids**
G. Burton, M. Galigniana, S. de Lavallaz, A. L. Brachet-Cota, E. M. Sproviero, A. A. Ghini, C. P. Lantos, and M. C. Damasco
- 544 **Biogenic Amine Flux Mediated by Cloned Transporters Stably Expressed in Cultured Cell Lines: Amphetamine Specificity for Inhibition and Efflux**
Stephen C. Wall, Howard Gu, and Gary Rudnick
- 551 **κ -Opioid Receptors Couple to Inwardly Rectifying Potassium Channels when Coexpressed by *Xenopus* Oocytes**
Douglas J. Henry, David K. Grandy, Henry A. Lester, Norman Davidson, and Charles Chavkin

Continued

CONTENTS (cont'd)

- 558 Novel Adamantane Derivatives Act as Blockers of Open Ligand-Gated Channels and as Anticonvulsants
Sergei M. Antonov, Jon W. Johnson, Nera Y. Lukomskaya, Natalya N. Potapyeva, Valeriy E. Gmiro, and Lev G. Magazanik
- 568 *In Vitro* Pharmacology of ACEA-1021 and ACEA-1031: Systemically Active Quinoxalinediones with High Affinity and Selectivity for *N*-methyl-D-aspartate Receptor Glycine Sites
R. M. Woodward, J. E. Huettner, J. Guastella, J. F. W. Keana, and E. Weber
- 582 Differential Antagonism of α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid-Preferring and Kainate-Preferring Receptors by 2,3-Benzodiazepines
Timothy J. Wilding and James E. Huettner
- 588 Glibenclamide Opens ATP-Sensitive Potassium Channels in *Xenopus* Oocyte Follicular Cells during Metabolic Stress
Eric Guillemare, Michel Lazdunski, and Eric Honore
- 595 Zinc Is a Mixed Antagonist of Homomeric ρ 1 γ -Aminobutyric Acid-Activated Channels
Yongchang Chang, Jahanshah Amin, and David S. Weiss
- 603 Chronic Neurosteroid Treatment Produces Functional Heterologous Uncoupling at the γ -Aminobutyric Acid Type A/Benzodiazepine Receptor Complex in Mammalian Cortical Neurons
Rong Yu and Maharaj K. Ticku
- 611 Polymorphism-Structure Relationships of Rifamexil, an Antibiotic Rifamycin Derivative
Alessia Bacchi, Giovanni Mori, Giancarlo Pelizzi, and Giorgio Pelosi
- 624 Molecular Mechanics Explanation for the Stereochemical and Shape Selectivity of B-DNA for "Bay-Region" Carcinogens
Laszlo von Szentpaly and Igor L. Shamovsky
- 630 Nonsteroidal Human Progesterone Receptor Modulators from the Marine Alga *Cymopolia barbata*
Charles Pathirana, Robert B. Stein, Tina S. Berger, William Fenical, Teodoro Ianiro, Dale E. Mais, Antonio Torres, and Mark E. Goldman
- 636 Biodistribution and Metabolism of Internally ^3H -Labeled Oligonucleotides: II. 3',5'-Blocked Oligonucleotides
Howard Sands, Lorraine J. Gorey-Feret, Siew Peng Ho, Yijia Bao, Anthony J. Cocuzza, Dennis Chidester, and Frank W. Hobbs
- 647 Stereoselective Esterase Activity of Human Serum Albumin toward Ketoprofen Glucuronide
Nathalie Dubois-Presle, Françoise Lapicque, Marie-Hélène Maurice, Sylvie Fournel-Gigleux, Jacques Magdalou, Michel Abiteboul, Gérard Siest, and Patrick Netter