MOLECULAR PHARMACOLOGY

CONTENTS

ACCELERATED COMMUNICATION

TIMOTHY J. GRUDT AND CRAIG E. JAHR. Quisqualate Activates *N*-Methyl-D-Aspartate Receptor Channels in Hippocampal Neurons Maintained in Culture 477

ARTICLES

SATOSHI NAKANISHI, KOJI YAMADA, KAZUYUKI IWAHASHI, KAZUTOSHI KURODA, AND HIROSHI KASE. KT5926, a Potent and Selective Inhibitor of Myosin Light Chain Kinase 482

XINXIN DING AND MINOR J. COON. Immunochemical Characterization of Multiple Forms of Cytochrome P-450 in Rabbit Nasal Microsomes and Evidence for Tissue-Specific Expression of P-450s NMa and NMb 489

MICHEL BUREAU AND RICHARD W. OLSEN. Multiple Distinct Subunits of the γ-Aminobutyric Acid-A Receptor Protein Show Different Ligand-Binding Affinities 497

ISAAC N. PESSAH, EMILY L. DURIE, MARY J. SCHIEDT, AND ILDIKO ZIMANYI. Anthraquinone-Sensitized Ca^{2+} Release Channel from Rat Cardiac Sarcoplasmic Reticulum: Possible Receptor-Mediated Mechanism of Doxorubicin Cardiomyopathy 503

KAREN W. BARBOUR, SONDRA H. BERGER, AND FRANKLIN G. BERGER. Single Amino Acid Substitution Defines a Naturally Occurring Genetic Variant of Human Thymidylate Synthase 515

ANIMESH DHAR, ANJAN K. PAUL, AND SHIVENDRA D. SHUKLA. Platelet-Activating Factor Stimulation of Tyrosine Kinase and Its Relationship to Phospholipase C in Rabbit Platelets: Studies with Genistein and Monoclonal Antibody to Phosphotyrosine 519

B. I. TERMAN, R. P. RIEK, A. GRODSKI, H.-J. HESS, AND R. M. GRAHAM. Identification and Structural Characterization of α_1-Adrenergic Receptor Subtypes 526

J. D. BELL, R. L. BILTONEN, AND L. L. BRUNTON. Non-Steady State Kinetic Analysis of the Regulation of Adenylate Cyclase by GTP-Binding Proteins 535

ROBERT A. GROSS, JOHN W. WILEY, THERESE RYAN-JASTROW, AND ROBERT L. MACDONALD. Regulation by GTP and Its Stable Thiol Derivatives of Calcium Current Components in Rat Nodose Ganglion Neurons 546

S. ZOLNIEROWICZ, C. WORK, K. HUTCHISON, AND I. H. FOX. Partial Separation of Platelet and Placental Adenosine Receptors from Adenosine A_2-Like Binding Protein 554

ALBERT ENZ, MENEK GOLDSTEIN, AND EMANUEL MELLER. Dopamine Agonist-Induced Elevation of Striatal Acetylcholine: Relationship between Receptor Occupancy and Response in Normal and Denervated Rat Striatum 560

DONALD M. BURNETT, LAURA C. DANIELL, AND NANCY R. ZAHNISER. Decreased Efficacy of Inositol 1,4,5-Trisphosphate to Elicit Calcium Mobilization from Cerebrocortical Microsomes of Aged Rats 566

AIDA I. SACAAN AND KENNETH M. JOHNSON. Characterization of the Stimulatory and Inhibitory Effects of Polyamines on [^{3}H]*N*-(1-[thienyl]cyclohexyl)piperidine Binding to the *N*-Methyl-D-aspartate Receptor Ionophore Complex 572

MARTINE HAMANN, MICHEL DESARMENIEN, PATRICK VANDERHEYDEN, PASCALE PIGUET, AND PAUL FELTZ. Electrophysiological Study of *tert*-Butylbicyclophosphorothionate-Induced Block of Spontaneous Chloride Channels 578

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 $85; Japan $151 (includes air freight); all other countries, surface mail $110. USA institutional rate $185; Japan $251 (includes air freight); all other countries, surface mail $210. Single copies $17 ($20 foreign). (Prices subject to change.) 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. POSTMASTER: Send address changes to MOLECULAR PHARMACOLOGY, 428 East Preston Street, Baltimore, MD 21202-3993.

Copyright © 1990 by The American Society for Pharmacology and Experimental Therapeutics.

This One
3NHY-LY5-5C6G

Downloaded from molpharm.aspetjournals.org at ASPET Journals on April 16, 2024

CONTENTS (cont'd)

J. VAN SANDE, F. DENEUBOURG, R. BEAUWENS, J. C. BRAEKMAN, D. DALOZE, AND J. E. DUMONT. Inhibition of Iodide Transport in Thyroid Cells by Dysidenin, a Marine Toxin, and Some of Its Analogs 583

RIZWAN MASOOD, GURPREET S. AHLUWALIA, DAVID A. COONEY, ARNOLD FRIDLAND, VICTOR E. MARQUEZ, JOHN S. DRISCOLL, ZHANG HAO, HIROAKI MITSUYA, CARLO-FEDERICO PERNO, SAMUEL BRODER, AND DAVID G. JOHNS. 2′-Fluoro-2′,3′-dideoxyarabinosyladenine: A Metabolically Stable Analogue of the Antiretroviral Agent 2′,3′-Dideoxyadenosine 590

Copyright © 1990 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.