CONTENTS

SHORT COMMUNICATIONS


GERALD M. ROSEN, MICHELLE W. KLOSS, AND ELMER J. RAUCKMAN. Initiation of in Vitro Lipid Peroxidation by N-Hydroxynorcocaine and Norcocaine Nitroxide 529

MARSHALL D. SNAVELY AND PAUL A. INSEL. Characterization of Alpha-Adrenergic Receptor Subtypes in the Rat Renal Cortex: Differential Regulation of Alpha1- and Alpha2-Adrenergic Receptors by Guanyl Nucleotides and Na+ 532

CHRISTIAN GESPACH, FORTUNA SAAL, HÉLÈNE COST, AND JEAN-PIERRE ABITA. Identification and Characterization of Surface Receptors for Histamine in the Human Promyelocytic Leukemia Cell Line HL-60: Comparison with Human Peripheral Neutrophils 547

MICHAEL J. MARKS AND ALLAN C. COLLINS. Characterization of Nicotine Binding in Mouse Brain and Comparison with the Binding of α-Bungarotoxin and Quinuclidinyl Benzilate 554

JORDAN E. WARNICK, PETER J. JESSUP, LARRY E. OVERMAN, MOHYEE E. ELDEFRAWI, YUTH NIMIT, JOHN W. DALY, AND EDSON X. ALBUQUERQUE. Pumiliotoxin-C and Synthetic Analogues: A New Class of Nicotinic Antagonists 565

DONALD E. MACFARLANE AND DAVID C. STUMP. Parallel Observation of the Occupancy of the Alpha2-Adrenergic Receptor in Intact Platelets and Its Ability to Inhibit the Adenylate Cyclase 574

DONALD E. MACFARLANE. Bidirectional Collision Coupling of the Adenylate Cyclase: The Allozyme Hypothesis for Receptor Function 580

ELIZABETH A. WOODCOCK AND COLIN I. JOHNSTON. Characterization of Adenylate Cyclase-Coupled Alpha2-Adrenergic Receptors in Rat Renal Cortex Using [3H]Yohimbine 589

ERICK T. SUEN, PETER C. K. KWAN, AND YVONNE C. CLEMENT-CORMIER. Selective Effects of an Essential Sulphydryl Group on the Activation of Dopamine- and Guanine Nucleotide-Sensitive Adenylate Cyclase 595

M. M. VOHRA AND P. K. RAUTANEN. Pharmacological Characterization of Histamine Receptors Mediating Cyclic AMP Accumulation in the Mouse Vas Deferens: Sensitivity to H1 and H2 Receptor Agonists and Antagonists 602

R. B. CLARK, T. J. GOKA, D. A. GREEN, R. BARBER, AND R. W. BUTCHER. Differences in the Forskolin Activation of Adenylate Cyclases in Wild-Type and Variant Lymphoma Cells 609


RONALD D. VALE, ANDRE DE LEAN, ROBERT J. LEFKOWITZ, AND JEFFREY M. STADEL. Regulation of Insulin Receptors in Frog Erythrocytes by Insulin and Concanavalin A: Evidence for Discrete Classes of Insulin Binding Sites 619

MAX WILLOW AND WILLIAM A. CATTERALL. Inhibition of Binding of [3H]Batrachotoxinin A 20-α-Benzooate to Sodium Channels by the Anticonvulsant Drugs Diphenylhydantoin and Carbamazepine 627

(continued)
CONTENTS (cont’d)

Mohammed A. Maleque, Caden Souccar, Jonathan B. Cohen, and Edson X. Albuquerque. Meprobamten Reaction with the Ionic Channel of the Acetylcholine Receptor: Potentiation of Agonist-Induced Desensitization at the Frog Neuromuscular Junction ................................................................. 636

A. M. Tolkovsky. Etorphine Binds to Multiple Opiate Receptors of the Caudate Nucleus with Equal Affinity but with Different Kinetics ........................................................................................................ 648


Gilda Loew, Gail Hashimoto, Lenita Williamson, Stanley Burt, and Wendie Anderson. Conformational-Energy Studies of Tetrapeptide Opiates: Candidate Active and Inactive Conformations ........................................................................ 667

Dimitrina Aslanian and Suzanne de Cheveigne. Inelastic Electron Tunneling Spectroscopic Study of Interaction of Acetylcholine and β-Methyl Acetylcholine with Alumina Surface .................................................................................. 678

Mark Hnatowich and Frank S. Labelle. Light-Enhanced Inhibition of Ouabain Binding to Digitalis Receptor in Rat Brain and Guinea Pig Heart by the Food Dye Erythrosine ........................................................................................................ 687


Atsunobu Yoda and Shizuko Yoda. Interaction between Ouabain and the Phosphorylated Intermediate of Na,K-ATPase .......................................................................................................................... 700

Konrad C. Retz and William J. Steele. Mechanism of Inhibition of Protein Synthesis by Morphine in Rat Brain and Liver ..................................................................................................................... 706

Erik Gylfe and Bo Hellman. Lack of Ca2+ Ionophoretic Activity of Hypoglycemic Sulfonylureas in Excitable Cells and Isolated Secretory Granules ......................................................................................... 715

Pekka Peura, Peter Mackenzie, Ulla Koivusaari, and Matti Lang. Increased Fluidity of a Model Membrane Caused by Tetrahydro-β-Carbolines ...................................................................................................... 721

István Lukovits. A Theorem on de Novo Group Contributions .......................................................................................................................... 725


C. Roland Wolf, Charles N. Statham, Mary G. McMenamin, John R. Bend, Michael R. Boyd, and Richard M. Philpot. The Relationship between the Catalytic Activities of Rabbit Pulmonary Cytochrome P-450 Isozymes and the Lung-Specific Toxicity of the Furan Derivative, 4-Ipomeanol ........................................................................................................... 738

Haruo Tachizawa, Timothy L. MacDonald, and Robert A. Neal. Rat Liver Micromosomal Metabolism of Propyl Halides ........................................................................................................................................... 745

Janice R. Sufrin and John B. Lombardini. Differences in the Active-Site Region of Tumor versus Normal Isozymes of Mammalian ATP:L-Methionine S-Adenosyltransferase ........................................................................ 752

DeWayne Roberts, Paula Franklin, Gina Odom, Charles Peck, and T. Ling Chwang. Cytotoxicity of 5-Fluoro-5’-O-nitro-2’-deoxyuridine, a New Fluorinated Pyrimidine Derivative, in L1210 Cultures ......................................................................................................... 760

W. David Sedwick, Michael Hamrell, Oliver E. Brown, and John Laszlo. Metabolic Inhibition by a New Antifolate, 2,4-Diamino-6-(2,5-dimethoxybenzyl)-5-methyl-pyrido[2,3-d]pyrimidine (BW301U), an Effective Inhibitor of Human Lymphoid and Dihydrofolate Reductase-Overproducing Mouse Cell Lines 766

Copyright © 1982 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-1982 articles are the same as those shown for current articles.
CONTENTS (cont’d)

JANET A. HOUGHTON, ARVIL J. TICE, AND PETER J. HOUGHTON. The Selectivity of Action of Methotrexate in Combination with 5-Fluorouracil in Xenografts of Human Colon Adenocarcinomas .......................................................... 771

ROBERT H. TUKEY, MASAKI NOGIISHI, AND DANIEL W. NEBERT. Quantitation of Hepatic Cytochrome P-450 mRNA with the Use of a Cloned DNA Probe: Effects of Various P-450 Inducers in C57BL/6N and DBA/2N Mice ......................... 779

GHIZI A. DANNAN AND F. PETER GUENGREC. Immunochemical Comparison and Quantitation of Microsomal Flavin-Containing Monoxygenases in Various Hog, Mouse, Rat, Rabbit, Dog, and Human Tissues ............................................. 787

EDMUND M. K. LUI, SHELLEY R. SLAUGHTER, RICHARD M. PHILPOT, AND GEORGE W. LUCIER. Endocrine Regulation of Cadmium-Sensitive Cytochrome P-450 in Rat Liver ................................................................. 795

AUTHOR INDEX FOR VOLUME 22 .................................................. 803

CUMULATIVE SUBJECT INDEX FOR VOLUMES 21 AND 22 ....................... 809