CONTENTS

SHORT COMMUNICATION

ROY A. FRYE AND RONALD W. HOLZ. Phospholipase A2 Inhibitors Block Catecholamine Secretion and Calcium Uptake in Cultured Bovine Adrenal Medullary Cells ........................................... 547


CHUN WEL LIN AND JOSÉ M. MUSACCHIO. The Determination of Dissociation Constants for Substance P and Substance P Analogues in the Guinea Pig Ileum by Pharmacological Procedures ................................................... 558

CHI-MING LEE, JONATHAN A. JAVITCH, AND SOLOMON H. SNYDER. 3H-Substance P Binding to Salivary Gland Membranes: Regulation by Guanyl Nucleotides and Divalent Cations ........................................... 563

PETER J. BARNES, BENGT-ERIK SKOOGH, JAY A. NADEL, AND JAMES M. ROBERTS. Postsynaptic Alpha2-Adrenoceptors Predominate over Alpha1-Adrenoceptors in Canine Tracheal Smooth Muscle and Mediate Neuronal and Hormonal Alpha-Adrenergic Contraction ........................................... 570

ALAIN ENJALBERT AND JOEL BOCAERT. Pharmacological Characterization of the D2 Dopamine Receptor Negatively Coupled with Adenylate Cyclase in Rat Anterior Pituitary ........................................... 576

DAVID R. SIBLEY AND IAN CRESEE. Interactions of Ergot Alkaloids with Anterior Pituitary D2 Dopamine Receptors ........................................... 585

DAVID A. KENDALL, DUNCAN P. TAYLOR, AND S. J. ENNA. [3H]Tetrahydrozadodone Binding: Association with Serotonin; Binding Sites ........................................... 594

M. E. A. REITH, H. SERSHEN, D. L. ALLEN, AND A. LAYTHA. A Portion of [3H]Cocaine Binding in Brain Is Associated with Serotonergic Neurons ........................................... 600

ANNE DUMBRILLE-ROSS AND SIU W. TANG. Binding of [3H]Ro 11-2465: Possible Identification of a Subclass of [3H]Imipramine Binding Sites ........................................... 607

KENNETH T. DOUGLAS, RAJIV K. SHARMA, JOANNE F. WALMSLEY, AND ROBERT C. HIDER. Ionization Processes of Some Harmala Alkaloids ........................................... 614

GAL. CRAVISO AND JOSÉ M. MUSACCHIO. High-Affinity Dextromethorphan Binding Sites in Guinea Pig Brain. I. Initial Characterization ........................................... 619

GAL. CRAVISO AND JOSÉ M. MUSACCHIO. High-Affinity Dextromethorphan Binding Sites in Guinea Pig Brain. II. Competition Experiments ........................................... 629

WENDELL L. COMBEST AND DIANE HADDOCK RUSSELL. Alteration of Cyclic AMP-Dependent Protein Kinases and Polyamine Biosynthetic Enzymes during Hypertrophy and Hyperplasia of the Thyroid in the Rat ........................................... 641

GEORGE S. JOHNSON AND CYNTHIA J. JAWORSKI. Glucocorticoids Increase GTP-Dependent Adenylate Cyclase Activity in Cultured Fibroblasts ........................................... 648

B. THEO MELLION, LOUIS J. IGNARRO, CARL B. MYERS, ERIOT H. OHLSTEIN, BRYAN A. BALLOT, ALBERT L. HYSAN, AND PHILIP J. KADOWITZ. Inhibition of Human Platelet Aggregation by S-Nitrosothiols: Heme-Dependent Activation of Soluble Guanylate Cyclase and Stimulation of Cyclic GMP Accumulation ........................................... 653

PAUL J. SILVER AND JAMES T. STULL. Effects of the Calmodulin Antagonist, Fluphenazine, on Phosphorylation of Myosin and Phosphorylase in Intact Smooth Muscle ........................................... 665

(continued)
CONTENTS (cont'd)

GULLIAN POCOCK. Ionic and Metabolic Requirements for Stimulation of Secretion by Ouabain in Bovine Adrenal Medullary Cells .................................................. 671
GILLIAN POCOCK. Ion Movements in Isolated Bovine Adrenal Medullary Cells Treated with Ouabain ................................................................. 681
G. JUNG, G. HENNINGS, M. PFEIFER, AND W. G. BESSLER. Interaction of Metal-Complexing Compounds with Lymphocytes and Lymphoid Cell Lines ................................................. 698
MARY C. EDWARDS, A. M. E. NOURI, D. GORDON, AND F. J. EVANS. Tumor-Promoting and Nonpromoting Proinflammatory Esters Act as Human Lymphocyte Mitogens with Different Sensitivities to Inhibition by Cyclosporin A .................................. 703
PAUL H. FISCHER, MARGARET A. WEDDELL, AND RAYMOND D. MOSSIE. Interaction of Metal-Complexing Compounds with Lymphocytes and Lymphoid Cell Lines ................................................. 717
KURT A. BLACK AND T. R. TEPHY. Effects of Nitrous Oxide and Methotrexate Administration on Hepatic Methionine Synthetase and Dihydrofolate Reductase Activities, Hepatic Folates, and Formate Oxidation in Rats .......... 724
HENRY CHANG, SANDRA M. EWERT, AND RONALD L. NAGEL. Identification of 2-Imidazolines as Anti-Sickling Agents ............................................. 731
GABRIELA M. KELLER AND COLIN R. JECFOATE. Modulation of Microsomal Benz[a]pyrene Metabolism by DNA ...................... 735
J. DAVID LAMBERT. 22-Ketocholesterol: A Potent Competitive Inhibitor of Cytochrome P-450-dependent Side-Chain Cleavage of Cholesterol .......... 743
E. H. JEFFERY AND G. J. MANNERING. Interaction of Constitutive and Phenobarbital-Induced Cytochrome P-450 Isozymes during the Sequential Oxidation of Benzo(a)pyrene: Explanation for the Difference in Benzphetamine-Induced Hydrogen Peroxide Production and 455-nm Complex Formation in Microsomes from Untreated and Phenobarbital-Treated Rats .......... 748
JAMES STEVENS AND WILLIAM B. JAKOBY. Cysteine Conjugate β-Lyase ............................................. 761
P. DAVID JOSEPHY, THOMAS E. ELING, AND RONALD P. MASON. An Electron Spin Resonance Study of the Activation of Benzidine by Peroxidases .......... 766
GHEORGHE BENGA, MIHAI IONESCU, OCTAVIAN POPESCU, AND VICTOR I. POP. Effect of Chlorpromazine on Proteins in Human Erythrocyte Membranes as Inferred from Spin Labeling and Biochemical Analyses .......... 771
JAMES L. VANNICE, J. RUSSELL GROVE, AND GORDON M. RINGOLD. Analysis of Glucocorticoid-Inducible Genes in Wild-Type and Variant Rat Hepatoma Cells .......... 779
AUTHOR INDEX FOR VOLUME 23 ............................................. 787

The Subject Index for Volume 23 will appear in the November 1983 issue as part of a cumulative index for the year 1983.

Copyright © 1983 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-1983 articles are the same as those shown for current articles.