

## CONTENTS OF VOLUME 169

No. 1, SEPTEMBER 1969

Impairment by <i>d</i> -Amphetamine of Delayed Matching Performance in Monkeys. STANLEY D. GLICK AND MURRAY E. JARVIK.....	1
Behavioral Effects of <i>N,N</i> -Diethyltryptamine: Absence of Antagonism by Xylamidine Tosylate. J. C. WINTER.....	7
Narcotic-Antagonist Analgesics: Interactions with Cholinergic Systems. LOUIS S. HARRIS, WILLIAM L. DEWEY, JOHN F. HOWES, JAMES S. KENNEDY AND HARRY PARS.....	17
Brain Acetylcholine Levels and Inhibition of the Tail-Flick Reflex in Mice. JOHN F. HOWES, LOUIS S. HARRIS, WILLIAM L. DEWEY AND CAROL A. VOYDA.....	23
Agonist and Antagonist Interactions of Opioids on Acetic Acid-Induced Abdominal Stretching in Mice. ROBERT I. TABER, DOROTHY D. GREENHOUSE, JILL K. RENDELL AND SAMUEL IRWIN.....	29
Quantitative Studies of the Antagonism of Morphine by Nalorphine and Naloxone. A. E. TAKEMORI, HARVEY J. KUPFERBERG AND JACK W. MILLER.....	39
Effects of Lanthanum on Contraction, Calcium Distribution and Ca <sup>45</sup> Movements in Intestinal Smooth Muscle. GEORGE B. WEISS AND FRANK R. GOODMAN.....	46
Effects of Sodium-Deficient Medium and Ouabain on Potassium Exchange in <i>Taenia</i> <i>Coli</i> . MADGE A. PFAFFMAN AND WILLIAM C. HOLLAND.....	56
The Effects of Theophylline, Diazoxide and Imidazole on Isoproterenol-Induced Inhibition of the Rabbit Ileum. BYRON E. WILKENFELD AND BERNARD LEVY... .	61
The Accumulation of C <sup>14</sup> -Serotonin in the Guinea-Pig Vas Deferens. NGUYEN B. THOA, DONALD ECCLESTON AND JULIUS AXELROD.....	68
Increase in Tyrosine Hydroxylase Activity after Reserpine Administration. R. A. MUELLER, H. THOENEN AND J. AXELROD.....	74
Inhibitory Effects of Alloxan on Mammalian Adenyl Cyclase. K. L. COHEN AND M. W. BITENSKY.....	80
The Inhibition of Norepinephrine-Stimulated Lipolysis by Acute Hypoxia. DAVID BAUM.....	87
The Effect of Digitalis on the Excitability of Autonomic Nerves. ROBERT E. TEN EICK AND BRIAN F. HOFFMAN.....	95
Differences in the Chronotropic and Inotropic Response of the Rat Atrium to Cho- line Esters, Cholinesterase Inhibitors and Certain Blocking Agents. CARMEL MONTGOMERY ROBERTS AND JELENA KONJOVIC.....	109
An Investigation into the Bradycardic Effects of ST 155 [2-(2,6-Dichlorophenyl- amino)-2-Imidazoline HCl] in the Anesthetized Dog. R. D. ROBSON, H. R. KAPLAN AND SUSANNE LAFORCE.....	120
Inhibition of Tissue Histamine Formation by Decaborane. MIGUEL A. MEDINA, JUANITA H. LANDEZ AND LLOYD L. FOSTER.....	132
Effect of Steroid Hormones on the Parathyroid Hormone Dose-Response Curve. L. E. MAGARGAL, H. MAGARGAL AND M. M. REIDENBERG.....	138
Role of the Lymphatics in the Intestinal Absorption and Distribution of Drugs. THOMAS J. DE MARCO AND RUTH R. LEVINE.....	142

No. 2, OCTOBER 1969

Stereoselective Metabolism of the Enantiomers of Hexobarbital. R. L. FURNER, J. S. MCCARTHY, R. E. STITZEL AND M. W. ANDERS.....	153
Studies on the Mechanism of Phenobarbital-Induced Protection against Parathion in Adult Female Rats. JEAN-GUY ALARY AND JULES BRODEUR.....	159
The Effect of Tolerance and Withdrawal on the <i>in Vivo</i> Metabolism of <i>N</i> -C <sup>14</sup> -Methyl- Dihydromorphine in the Rat. S. Y. YEH AND L. A. WOODS.....	168
Tolerance to Opioid Narcotics. I. Tolerance to the "Running Fit" Caused by Levor- phanol in the Mouse. AVRAM GOLDSTEIN AND PATRICIA SHEEHAN.....	175

Effects of Procaine, Pentobarbital and Halothane on Synaptic Transmission in the Central Nervous System. ANIBAL GALINDO.....	185
Tension-Response Relationships in the Intact Nictitating Membrane of the Pithed Cat. DAVID P. WESTFALL, PAUL E. GILBERT AND WILLIAM W. FLEMING.....	196
Enhancement by Cesium Ions of Ganglionic Hyperpolarization Induced by Dimethylphenylpiperazinium (DMPP) and Repetitive Preganglionic Stimulation. JOHN C. HANCOCK AND ROBERT L. VOLLE.....	201
A Comparison of the Sensitivity to Chemical Stimuli of Adrenergic and Cholinergic Neurons in the Cat Stellate Ganglion. JAMES W. AIKEN AND ERNEST REIT.....	211
Dependence of Tetrodotoxin Blockage of Nerve Membrane Conductance on External pH. TOSHIO NARAHASHI, JOHN W. MOORE AND DONALD T. FRAZIER.....	224
Electrical Field-Stimulated Release of Norepinephrine-H <sup>2</sup> from Rat Atrium: Effects of Ions and Drugs. RICHARD I. KATZ AND IRWIN J. KOPIN.....	229
The Uptake and Disposition of <i>dl</i> -Norepinephrine in Perfused Rat Lung. JOHN HUGHES, C. N. GILLIS AND F. E. BLOOM.....	237
Trans-Synaptic Induction of Adrenal Tyrosine Hydroxylase. H. THOENEN, R. A. MUELLER AND J. AXELROD.....	249
The Effect of Calcium Depletion on the Combination of Agonists and Competitive Antagonists with <i>Alpha</i> Adrenergic and Histaminergic Receptors of Rabbit Aorta. RONALD R. TUTTLE AND NEIL C. MORAN.....	255
Bradykinin on Isolated Guinea-Pig Tracheal Muscle. LOUIS C. IORIO AND JAY W. CONSTANTINE.....	264
Effect of Benzolamide on Cerebrospinal Fluid Formation. L. E. BRODER AND W. W. OPPELT.....	271
The Effect of General Anesthesia on the Chemical Composition of Blood Plasma of Normal Rabbits. LASZLO Z. BITO AND KENNETH E. EAKINS.....	277
The Action of Ouabain on the Function of the Atrioventricular Node in Rabbits. NOBORU TODA AND THEODORE C. WEST.....	287
Effects of Nicotine Injected into the Atrioventricular Node Artery of the Dog. P. GAUTHIER AND R. A. NADEAU.....	298
The Effect of Methylxanthines and Local Anesthetics on Fragmented Sarcoplasmic Reticulum. PHILIP N. JOHNSON AND G. INESI.....	308
Dissociation of the Increased Formation of Cardiac Adenosine 3',5'-Monophosphate from the Positive Inotropic Effect of Norepinephrine. JOSEPH SHANFELD, ALAN FRAZER AND MARILYN E. HESS.....	315
Effects of Ouabain on the Splanchnic Circulation. LURA ANN HARRISON, JON BLASCHKE, ROBERT S. PHILLIPS, WILLIAM E. PRICE, MARION DEV. COTTEN AND EUGENE D. JACOBSON.....	321
Index, Volume 169, September-October 1969.....	329