

## CONTENTS OF VOLUME 162

No. 1, JULY 1968

|   |     |
|---|-----|
| Mode of Action of Succinylcholine on Intraocular Pressure. RONALD L. KATZ AND KENNETH E. EAKINS.....  | 1   |
| Antagonism of Succinylcholine Blockade of the Mammalian Neuromuscular Junction. SHIRLEY E. FREEMAN.....   | 10  |
| Thermal Alteration in Receptor Activity of the Rat Fundal Strip. JEROME H. FLEISCH AND S. EHRENPREIS.....   | 21  |
| Ganglionic Actions of $\alpha, \alpha'$ -Bis-(Dimethylammoniumacetaldehyde Diethylacetal)- <i>p, p'</i> -Diacetylbi-phenyl Dibromide (DMAE). JORGE JARAMILLO.....   | 30  |
| Adrenergic Blocking and Sympathomimetic Effects of a Series of Halogenated Phenyl- $\beta$ -Haloethylamines. GARLAND E. GARNER, ROBERT A. WOODBURY AND E. E. ELKO.....  | 38  |
| The Antiarrhythmic Properties of ICI 46037, a Quaternary Analog of Propranolol. BENEDICT R. LUCCHESI AND TEIJI IWAMI.....   | 49  |
| Quinterenol, a New <i>Beta</i> Adrenergic Stimulant. A. SCRIBINE, P. F. MOORE, L. C. IORIO, I. M. GOLDMAN, W. K. MCSHANE AND K. D. BOOHER.....  | 60  |
| Formation of a "False" Adrenergic Transmitter in Cats Pretreated with 4-Methoxy-3,5-Dihydroxyphenylalanine and Its Effects on Postganglionic Sympathetic Transmission. H. THOENEN, W. HAEFELY, G. HAEUSLER AND A. HUERLIMANN..... | 70  |
| Diphenylhydantoin Therapy in Experimental Myocardial Infarction. HOWARD J. ZEFT, ROBERT E. WHALEN, NORMAN B. RATLIFF, JR., ROBERT D. DAVENPORT, JR. AND HENRY D. MCINTOSH.....  | 80  |
| Angiotensin, Cocaine and Desipramine: Comparison of Effects on Blood Pressure Responses to Norepinephrine, Tyramine and Phenylephrine in the Pithed Rat. DONALD T. PALS, ROBERT W. FULTON AND FREDERICK D. MASUCCI.....           | 85  |
| The Actions of Angiotensin II on Canine Myocardial and Plasma Catecholamines. MICHAEL J. PEACH AND GEORGE D. FORD.....  | 92  |
| Alterations in Mechanical Properties of Heart Muscle Produced by Halothane. ALAN H. GOLDBERG AND W. P. C. PHEAR.....  | 101 |
| Mechanism of the Antihypertensive Effect of Diazoxide: <i>In Vitro</i> Vascular Studies in the Hypertensive Rat. ARNOLD J. WOHL, LORRAINE M. HAUSLER AND FRANKLIN E. ROTH.....  | 109 |
| Effect of Methyl dopa on Chronotropic Responses to Cardioaccelerator Nerve Stimulation in Dogs. SIGMUND R. SUGARMAN, HARRY S. MARGOLIUS, THOMAS E. GAFFNEY AND SHAKIL MOHAMMED.....   | 115 |
| The Effect of Various Drug Pretreatments on Amine-Induced Phosphorylase Activation and Amine Uptake. JOHN H. McNEILL AND THEODORE M. BRODY.....   | 121 |
| The Effect of Inotropic Catecholamines, Calcium and Aminophylline on Glycogen Synthetase Activity in the Intact Cat Heart. JULIUS BELFORD AND MARJORIE A. CUNNINGHAM.....   | 134 |
| Absorption, Metabolism and Excretion of the Ephedrine in Man. I. The Influence of Urinary pH and Urine Volume Output. G. R. WILKINSON AND A. H. BECKETT..   | 139 |
| The Pharmacology of 5-(3-Pyridyl)Tetrazole, a Hypocholesteremic Lipolysis Inhibitor. JOSEPH N. PEREIRA, GERALD F. HOLLAND, FRANK A. HOCHSTEIN, SHELDON GILGORE, STEPHEN DEFELICE AND REX PINSON.....                              | 148 |
| Effects of Metabolites of Primaquine and Acetanilid on Normal and Glucose-6-Phosphate Dehydrogenase-Deficient Erythrocytes. IAN M. FRASER AND ELLIOT S. VESELL.....   | 155 |
| Gallamine Triethiodide Facilitation of Local Cortical Excitability Compared with Other Neuromuscular Blocking Agents. LAWRENCE M. HALPERN AND RICHARD G. BLACK.....   | 166 |
| Respiratory Effects of Ethanol and Procaine Injected into the Cerebrospinal Fluid of the Brainstem in Cats. R. ROSENSTEIN, L. E. MCCARTHY AND H. L. BORISON....   | 174 |

|   |     |
|---|-----|
| The Respiratory Effects of Morphine during a Cycle of Dependence. W. R. MARTIN, D. R. JASINSKI, J. D. SAPIRA, H. G. FLANARY, O. A. KELLY, A. K. THOMPSON AND C. R. LOGAN..... | 182 |
| Cough Induced by 1,1-Dimethyl-4-Phenylpiperazinium Iodide: A New Antitussive Method. NEIL P. SANZARI, FRANCINE B. FAINMAN AND JANE FRANCES EMELE....                          | 190 |
| Antiinflammatory Activity of Indomethacin and Plasma Corticosterone in Rats. CHARLES A. WINTER, EDWIN A. RISLEY AND ROBERT H. SILBER.....                                     | 196 |
| Errata.....   | 202 |

## No. 2, AUGUST 1968

|   |     |
|---|-----|
| Light and Heavy Norepinephrine Storage Particles in the Rat Heart and in Bovine Splenic Nerve. R. H. ROTH, L. STJÄRNE, F. E. BLOOM AND N. J. GIARMAN.....                               | 203 |
| Adrenergic Neurons in the Cat Superior Cervical Ganglion and Cervical Sympathetic Nerve Trunk. A Histochemical Study. DAVID JACOBOWITZ AND JAMES K. WOODWARD.....                       | 213 |
| Studies on the Cortical Control of the Adrenal Medulla in the Rat. LARISSA POHORECKY AND JOHN H. RUST.....  | 227 |
| Action of a <i>Beta</i> Adrenergic Receptor Blocking Agent on the Positive Chronotropic Response and Uptake of Norepinephrine in the Perfused Guinea-Pig Heart. THOMAS C. WESTFALL..... | 239 |
| Dual Adrenergic Blockade and Epinephrine Infusion. CLINTON B. NASH.....   | 246 |
| Analysis of Supersensitivity in the Isolated Spleen of the Cat. RICHARD D. GREEN, III AND WILLIAM W. FLEMING.....   | 254 |
| The Effects of Tyramine on the Isolated Nictitating Membrane of the Cat. MARK S. ARTHUR AND WILLIAM W. FLEMING.....   | 263 |
| Sensitivity Changes in the Isolated Ileum of the Guinea Pig after Pretreatment with Reserpine. RICHARD D. GREEN, III, WILLIAM W. FLEMING AND JAMES L. SCHMIDT. 270                      |     |
| Nonspecific Supersensitivity of the Guinea-Pig Ileum Produced by Chronic Ganglion Blockade. WILLIAM W. FLEMING.....   | 277 |
| Phenoxybenzamine Antagonism of Tryptamines, Their Indene Isosteres and 5-Hydroxytryptamine in the Rat Stomach Fundus Preparation. J. C. WINTER AND P. K. GESSNER.....                   | 286 |
| Effect of Chlorpromazine on Accumulation and Disappearance of Catecholamines Formed from Tyrosine-C <sup>14</sup> in Brain. HENRIK NYBÄCK AND GÖRAN SEDVALL.....                        | 294 |
| The Effect of Dihydroxyphenylalanine, Pheniprazine and Dextroamphetamine on the <i>In Vivo</i> Release of Dopamine from the Caudate Nucleus. G. M. MCKENZIE AND J. C. SZERB.....        | 302 |
| Effect of a Cholinesterase Inhibitor When Injected into the Medulla of the Rabbit. WILLIAM C. STEWART AND ESSIE A. ANDERSON.....  | 309 |
| The Effects of 5-Hydroxytryptamine Antagonists on Spinal Neuronal Activity. NABIL R. BANNA AND EDMUND G. ANDERSON.....  | 319 |
| Effect of Inhalation Anesthetics on Monosynaptic and Polysynaptic Transmission in the Spinal Cord. RUDOLPH H. DE JONG, ROBERTO ROBLES, RICHARD W. CORBIN AND ROGER A. NACE.....         | 326 |
| Diuretic Effect of Chronic Morphine Treatment in Rats. CLAUDE MARCHAND AND GUSTAVE DENIS.....   | 331 |
| Stimulatory Effect of Phenobarbital and Insecticides on Warfarin Metabolism in the Rat. MASAYUKI IKEDA, A. H. CONNEY AND J. J. BURNS.....   | 338 |
| Changes in Renal and Plasma Lipid Content in Cats after Carbon Tetrachloride. LAURENCE C. K. WONG AND VICTOR DISTEFANO.....   | 344 |
| Antagonism of Experimental Cyanide Toxicity in Relation to the <i>In Vivo</i> Activity of Cytochrome Oxidase. JACK SCHUBERT AND WARREN A. BRILL.....                                    | 352 |
| Index, Volume 162, July-August 1968.....  | 361 |