

CONTENTS OF VOLUME 147

No. 1, JANUARY 1965

Renotropic Characteristics of Ethacrynic Acid: A Phenoxyacetic Saluretic-Diuretic Agent. KARL H. BEYER, JOHN E. BAER, JOAN K. MICHAELSON AND HORACE F. RUSSO.	1
A Cellular Action of Mercurial Diuretics. VERNON D. JONES, GEORGE LOCKETT AND ERWIN J. LANDON.	23
The Saluretic Effects of Arecoline Hydrochloride Infused into the Left Renal Artery of Dogs. RONALD L. WILLIAMS, JAMES E. PEARSON, JR. AND M. KATHLEEN CARTER.	32
Effects of Local Anesthetics on Sodium and Potassium in Human Red Cells. NIKAAN B. ANDERSEN AND J. S. GRAVENSTEIN.	40
Mechanism of Epinephrine Inhibition of the Milk Ejecting Response to Oxytocin. W. Y. CHAN.	48
The Cardiovascular Effects of N-(γ -Methylaminopropyl-Iminodibenzyl)-HCl (Desmethyylimipramine) and Guanethidine. A. KAUMANN, N. BASSO AND P. ARAMENDÍA.	54
Inotropic and Chronotropic Effects of Dichloroisoproterenol on Rat Atria. E. E. VOGIN AND N. S. DHALLA.	65
Contractility, Heart Rate, and Response to Norepinephrine of Isolated Rat Myocardium Following I ¹³¹ -Induced Hypothyroidism. JOSEPH M. BENFORADO AND L. L. WIGGINS.	70
Comparison of Effects of Aromatic Sympathomimetic Amines on Rabbit Aortic Strip and Rabbit Blood Pressure. T. P. PRUSS, G. D. MAENGWYN-DAVIES AND M. WURZEL.	76
Blockade of Endogenous Norepinephrine Synthesis by α -Methyl-Tyrosine, an Inhibitor of Tyrosine Hydroxylase. S. SPECTOR, A. SJOERDSMA AND S. UDENFRIEND.	86
Effects of <i>d</i> -Amphetamine upon Brain Amine Content and Locomotor Activity of Mice. CHARLES B. SMITH.	96
A Correlation of the Effects of Cervical Cordotomy, Hypothermia, and Catecholamines on Carbon Tetrachloride-Induced Hepatic Necrosis. ROBERT E. LARSON AND GABRIEL L. PLAA.	103
Morphological Changes in the Liver Accompanying Stimulation of Microsomal Drug Metabolizing Enzyme Activity by Phenobarbital, Chlordane, Benzpyrene or Methylcholanthrene in Rats. JAMES R. FOUTS AND LARRY A. ROGERS.	112
The Distribution and Fate of <i>d</i> -Tubocurarine. ELLIS N. COHEN, ALDO CORBASCIO AND GERALD FLEISCHLI.	120
Vitamin K-Like and Antivitamin K Activity of Substituted <i>para</i> -Benzoquinones. JULIUS LOWENTHAL AND J. A. MACFARLANE.	130
<i>In vivo</i> Generation of H ₂ O ₂ in Mouse Erythrocytes by Hemolytic Agents. GERALD COHEN AND PAUL HOCHSTEIN.	139

No. 2, FEBRUARY 1965

The Cholinergic Component in the Sympathetic Innervation to the Spleen. FLOYD E. LEADERS AND CONRADO DAYRIT.	145
The Sympathomimetic Effects of 2-Pyridine Aldoxime Methylchloride (2-PAM Cl). VINCENT J. ZARRO AND JOSEPH R. DiPALMA.	153
Effects of Tetraethylammonium on Synaptic Transmission in the Frog Sympathetic Ganglion. W. K. RIKER.	161
Mechanism of the Sympathomimetic Response of the Cat's Iris to Nicotine. RICHARD A. ATKINSON, DARRELL WITT AND J. P. LONG.	172
Evidence for Extraneuronal Binding of Norepinephrine. JOSEF E. FISCHER, IRWIN J. KOPIN AND JULIUS AXELROD.	181

“False Neurochemical Transmitters” and the Mechanism of Sympathetic Blockade by Monoamine Oxidase Inhibitors. I. J. KOPIN, J. E. FISCHER, J. M. MUSACCHIO, W. D. HORST AND VIRGINIA K. WEISE.....	186
The Antiarrhythmic Actions of <i>Beta</i> Adrenergic Blocking Agents. P. SOMANI AND BERT K. B. LUM.....	194
The Influence of Reserpine Pretreatment on the Contractile and Metabolic Effects Produced by Ouabain on Isolated Rabbit Left Atria. JOSEPH V. LEVY AND V. RICHARDS.....	205
Quindonium Bromide—Some Aspects of the Cardiovascular Pharmacology. MELVILLE W. OSBORNE AND MARTIN M. WINBURY.....	212
Protective Action of Quindonium Bromide (W3366A) against Hemorrhage Shock in Dogs. MELVILLE W. OSBORNE, HOWARD M. ROWE, RICHARD N. KAUFMAN, MELVIN C. JOHNSON, WILHELMINA WILLEMS AND MARTIN M. WINBURY.....	225
Quantitative Relationship of Motor Activity and Oxygen Consumption in Mice. HELMUT M. REDETZKI.....	232
The Uptake of 5-Hydroxytryptamine and Histamine by Particulate Fractions of Brain. JOSEPH D. ROBINSON, JULIUS H. ANDERSON AND JACK PETER GREEN.....	236
Comparison between the Effects of Hypothalamic Lesions on Brain Amine Levels and Drug Action. JOHN A. HARVEY.....	244
Drug Metabolism in Hypothermia. I. Biliary Excretion of C ¹⁴ -Atropine Metabolites in the Intact and Nephrectomized Rat. SARAH C. KALSER, ELAINE J. KELVINGTON, MARY M. RANDOLPH AND DIANNE M. SANTOMENNA.....	252
Drug Metabolism in Hypothermia. II. C ¹⁴ -Atropine Uptake, Metabolism and Excretion by the Isolated, Perfused Rat Liver. SARAH C. KALSER, ELAINE J. KELVINGTON, MARY M. RANDOLPH AND DIANNE M. SANTOMENNA.....	260
Inhibition of N'-Methylnicotinamide Secretion by Ouabain in the Chicken Kidney. BOHDAN R. NECHAY AND LAURIE M. PARDEE, JR.....	270
Pharmacological Studies with Guanisoquin. A. SCRIBINE, K. D. BOOHER, J. N. PEREIRA, W. K. McSHANE, J. W. CONSTANTINE, R. C. KOCH AND S. MIKNIUS.....	277

No. 3, MARCH 1965

Concerning the Mechanism of Action of Methylphenidate on the Responses of Rabbit Vascular Tissue to Norepinephrine. R. A. MAXWELL.....	289
The Effect of Guanethidine, Cocaine and Reserpine on the Hypotensive Action of Thiopental. J. M. STUMP AND W. W. FLEMING.....	298
Interaction of Guanethidine with Adrenergic Neurons. C. C. CHANG, E. COSTA AND B. B. BRODIE.....	303
The Effect of Sympathetic Nerve Stimulation on Isolated Atria of Guinea Pigs and Rabbits Pretreated with Reserpine. U. TRENDELENBURG.....	313
Norepinephrine Synthesis and the Pressor Responses to Tyramine in the Spinal Cat. B. BHAGAT, E. K. GORDON AND I. J. KOPIN.....	319
A Comparison of the Responses of Sympathetic Ganglia and Chemoreceptors to Cholinomimetic Agents and Sodium Cyanide. ACHILLES J. PAPPANO AND ROBERT L. VOLLE.....	324
Facilitation of Ganglionic Responses after a Period of Preganglionic Stimulation. U. TRENDELENBURG AND ANN JONES.....	330
Radiochemical Determination of Choline and Acetylcholine Flux from Isolated Tissue. JEFFREY K. SAELENS AND WILLIAM R. STOLL.....	336
A Study of Ataxia and Muscle Spindle Depression Produced in Mammals by a New Unsymmetrical Bis-Methonium Compound. AKIRA MATSUSHITA, NOBUO YANAGISAWA AND HIROSHI SHIMAZU.....	343
Pharmacological Actions of Oxamides and Hydroxyanilinium Compounds at Frog Neuromyal Junction. ALEXANDER G. KARZMAR, K. C. KIM AND L. C. BLABER.....	350
The Effect of EDTA and SCN on Radiocalcium Movement in Frog Rectus Abdominis Muscle during Contractures Induced by Calcium Removal. C. PAUL BIANCHI.....	360
Control of 5-Hydroxytryptophan Decarboxylase Activity in the Rat Pineal Gland by Sympathetic Nerves. SOLOMON H. SNYDER, JULIUS AXELROD, RICHARD J. WURTMAN AND JOSEF E. FISCHER.....	371

CONTENTS

v

Endocrine Modification of Drug Responses in the Rat. WILLIAM F. BOUSQUET, BILLY D. RUPE AND TOM S. MIYA	376
Metabolism of Meclizine in the Rat. S. A. NARROD, A. L. WILK AND C. T. G. KING ..	380
Ethanol Metabolism in Chronic Protein Deficiency. R. S. HORN AND R. W. MANTHEI.	385
Antihistamines and Teratogenicity in the Rat. C. T. G. KING, S. A. WEAVER AND S. A. NARROD.....	391
The Pteridine Wy-3654 and Its Relationship to Some Other Diuretic Agents. MARVIN E. ROSENTHALE	399
Central Emetic Action and Toxic Effects of Digitalis in Cats. B. B. GAITONDÉ, L. E. MCCARTHY AND H. L. BORISON.....	409
Emesis Induced by Intracerebroventricular Injections of Apomorphine and Deslanoside in Normal and Chemoreceptive Trigger Zone Ablated Dogs. N. N. SHARE, C. Y. CHAI AND S. C. WANG.....	416
Index, Volume 147, January-March 1965.....	423