

CONTENTS OF VOLUME 151

No. 1, JANUARY 1966

Studies on Digitalis. XII. The Effects of Paired Electrical Stimulation on Digitalis-Induced Arrhythmias. PETER L. FROMMER, BRIAN F. ROBINSON AND EUGENE BRAUNWALD.....	1
Effects of Antimony on the Cardiovascular System and Intestinal Smooth Muscle. MARION DE V. COTTEN AND MARY ELLA LOGAN.....	7
Comparison of the Effects of Dopamine, Isoproterenol, Norepinephrine and Bradykinin on Canine Renal and Femoral Blood Flow. JOHN L. McNAY AND LEON I. GOLDBERG.....	23
Antagonism of Epinephrine-Induced Cardiac Arrhythmias by 4-(2-Isopropylamino-1-Hydroxyethyl)-Methanesulfonanilide (MJ 1999). P. SOMANI, JAMES G. FLEMING, GREGORY K. CHAN AND BERT K. B. LUM.....	32
Influence of Endogenous Cardiac Catecholamine Depletion on the Force and Rate of Isolated Heart Preparations and Their Response to Ouabain. RALPH D. TANZ AND STEVEN M. MARCUS.....	38
Biochemical and Microfluorometric Studies of Norepinephrine Redistribution Accompanying Sympathetic Nerve Stimulation. C. N. GILLIS, F. H. SCHNEIDER, L. S. VAN ORDEN AND N. J. GIARMAN.....	46
Stimulation of the Release of Catecholamines from Isolated Adrenal Glands by Tyramine. ROBERT L. ROBINSON.....	55
The Stimulation of Canine Prostatic Secretion by Pilocarpine. EMIL R. SMITH, VLADIMIR ILIEVSKI AND ZAREH HADIDIAN.....	59
The Degeneration Contraction of the Nictitating Membrane in the Unanesthetized Cat. S. Z. LANGER.....	66
The Onset of Denervation Supersensitivity. S. Z. LANGER AND U. TRENDELENBURG.....	73
The Relation of Retention of Norepinephrine-H ³ to the Norepinephrine Content of the Nictitating Membrane of the Spinal Cat during Development of Denervation Supersensitivity. CHARLES B. SMITH, U. TRENDELENBURG, S. Z. LANGER AND T. H. TSAI.....	87
Supersensitivity to Norepinephrine Induced by Continuous Nerve Stimulation. U. TRENDELENBURG.....	95
Interaction of Catecholamines with Levorphanol and Morphine in the Mouse Eye. ALFRED A. SMITH, META KARMIN AND JO ANN GAVITT.....	103
Prenatal Chlorpromazine Effects on Liver, Survival and Behavior of Mice Offspring. J. M. ORDY, T. SAMORAJSKI, R. L. COLLINS AND C. ROLSTEN.....	110
Studies of Analgesic Drugs. X. Respiratory Effects of Narcotic Antagonists. ARTHUR S. KEATS AND JANE TELFORD.....	126
Enzyme Induction and Inhibition in Studies on the Pharmacological Actions of Acetophenetidin. A. H. CONNEY, M. SANSUR, F. SOROKO, R. KOSTER AND J. J. BURNS.....	133
The Influence of Steroids on Drug Metabolism in the Mouse. WILLIAM J. NOVICK, JR., CARL M. STOHLER AND JAMES SWAGZDIS.....	139
Relative Effects of 17 α -Alkylated Anabolic Steroids on Sulfobromophthalein (BSP) Retention in Rabbits. HARRY D. LENNEN.....	143
Epinephrine and Cholesterol Metabolism in the Dog. Hepatic Metabolism of Pyruvate and Mevalonate <i>in Vitro</i> . JOSEPH H. GANS.....	151

No. 2, FEBRUARY 1966

<i>p</i> -Aminohippurate and N-Methylnicotinamide Transport in Dog Renal Slices—An Evaluation of the Counter-Transport Hypothesis. CHARLES R. ROSS AND A. FARAH.....	159
Effect of Bendroflumethiazide on Distal Nephron Transport of Sodium, Potassium and Chloride. LAWRENCE P. SULLIVAN AND JAMES H. PIRCH.....	168
Effect of Meralluride on Distal Nephron Transport of Sodium, Potassium and Chloride. RAMON W. SCHMIDT AND LAWRENCE P. SULLIVAN.....	180

Interaction of Phenoxybenzamine with Guanethidine and Bretylium at the Sympathetic Nerve Endings of the Isolated Perfused Spleen of the Cat. H. THOENEN, A. HUERLIMANN AND W. HAEFELY.....	189
The Effect of Drugs on Uptake and Release of Catecholamines in the Isolated Left Atrium of the Guinea Pig. PETER CERVONI, S. M. KIRPEKAR AND A. SCHWAB..	196
The Role of Monoamine Oxidase in the Intra-neuronal Metabolism of Norepinephrine Released by Indirectly-Acting Sympathomimetic Amines or by Adrenergic Nerve Stimulation. CHARLES B. SMITH.....	207
Field Stimulation as a Means of Effecting the Graded Release of Autonomic Transmitters in Isolated Heart Muscle. JOHN R. BLINKS.....	221
Depletion of Cardiac Norepinephrine in the Mouse and Cat by Mercaptoethylguanidine. VICTOR DiSTEFANO AND JANET J. KLAHN.....	236
Effect of Methyldopa and Related Agents on Pressor Responses to Tyramine in Reserpine-Pretreated Rats and Dogs. MARY LOU TORCHIANA, HERBERT C. WENGER, JOHN STAVORSKI, C. T. LUDDEN AND CLEMENT A. STONE.....	242
Some Factors Determining the Response of Rabbit Aortic Strips to <i>dl</i> -Norepinephrine-7-H ³ Hydrochloride and the Influence of Cocaine, Guanethidine and Methylphenidate on These Factors. R. A. MAXWELL, W. B. WASTILA AND S. B. ECKHARDT.....	253
Cardiovascular and Metabolic Effects of Cyclic Adenosine 3',5'-Monophosphate in Unanesthetized Dogs. ROBERT A. LEVINE AND JAMES A. VOGEL.....	262
The Physiologic Disposition and Metabolism of Norepinephrine in Immunosympathectomized Animals. LESLIE L. IVERSEN, JACQUES GLOWINSKI AND JULIUS AXELROD.....	273
Mechanism of Hypotensive Action of Mebutamate. HSUEH-HWA WANG, SHIRLEY MARKEE, NORMAN KAHN, ELLIOTT MILLS AND S. C. WANG.....	285
Corticosteroid Antagonism of the Positive Inotropic Effect of Ouabain. ALLAN M. LEFER.....	294
Cardiac Seasonal Variation, a Qualitative Change in Pharmacologic Response to Ethylenediamine. HAROLD F. HARDMAN AND POJANA BUKHAMANA.....	300
The Effect of Cholinergic and Other Pharmacologic Agents on Brain Monophosphoinositide Turnover <i>in Vivo</i> . RICHARD U. MARGOLIS AND ALFRED HELLER.....	307
Effects of Various Autonomic Drugs on Isolated, Perfused Mesenteric Arteries. LARRY A. ROGERS, RICHARD A. ATKINSON AND J. P. LONG.....	313
The Electrical Excitability of Isolated Cortex during Barbiturate Withdrawal. SETH K. SHARPLESS AND JEROME H. JAFFE.....	321
Erratum.....	330

No. 3, MARCH 1966

Graded Effect of Social Stimulation upon <i>d</i> -Amphetamine Toxicity, Aggressiveness and Heart and Adrenal Weight. BRUCE L. WELCH AND ANNEMARIE S. WELCH....	331
Antiamphetamine Effects following Inhibition of Tyrosine Hydroxylase. ALBERT WEISSMAN, B. KENNETH KOE AND STANLEY S. TENEN.....	339
An Electrographic Study of <i>d</i> -Lysergic Acid Diethylamide and Nine Congeners. ARLENE K. SCHWEIGERDT, ANN H. STEWART AND HAROLD E. HIMWICH.....	353
Electrophysiologic Analysis of the Site of Action of Doxapram Hydrochloride. WILLIAM H. FUNDERBURK, KATHARINE L. OLIVER AND JOHN W. WARD.....	360
Anticonvulsant Properties of Some Benzodiazepines. EWART A. SWINYARD AND ALAN W. CASTELLION.....	369
Effects of Barbiturates and a Tetrahydrocannabinol Derivative on Recovery Cycles of Medial Lemniscus, Thalamus and Reticular Formation in the Cat. E. S. BOYD AND D. A. MERITT.....	376
Storage and Synthesis of Norepinephrine in the Reserpine-Treated Rat Brain. JACQUES GLOWINSKI, LESLIE L. IVERSEN AND JULIUS AXELROD.....	385
Uptake of Exogenous Catecholamines by Monoamine-Containing Neurons of the Central Nervous System: Uptake of Catecholamines by Arcuato-Infundibular Neurons. WALTER LICHTENSTEIGER AND HEINRICH LANGEMANN.....	400

CONTENTS

v

Effects of Imipramine and Reserpine on Body Size and Organ Size in Euthyroid and Hyperthyroid Growing Rats. ARTHUR J. PRANGE, JR. AND WILLIAM E. BAKEWELL. 409

The Adrenergic Blocking Activity of *N-tert.*-Butylmethoxamine (Butoxamine). BERNARD LEVY..... 413

An Unusual Venospasm Induced by Acetylcholine. A. J. RICE AND J. P. LONG.. 423

Comparison of the Stimulating Effects of Nicotine, Pilocarpine and Histamine on the Superior Cervical Ganglion of the Cat. LOUIS C. IORIO AND ROBERT J. McISAAC.. 430

The Use of Hypertonic Solutions to Produce Atrial Fibrillation in the Dog Heart-Lung Preparation. HENRY H. SWAIN AND GUY P. CURTIS..... 438

The Contraction and Extraction Characteristics of Contractile Proteins from *in Vivo* Ryanodine-Rigored and Iodoacetic Acid-Rigored Skeletal Muscle. LEONARD PROCITA..... 445

Effect of Thiocyanate on Radiocalcium Uptake during Potassium Contracture of Frog Sartorius Muscle. C. PAUL BIANCHI AND T. C. BOLTON..... 456

Respiration during Chronic Inhibition of Renal Carbonic Anhydrase: Further Observations on Pharmacology of 2-Benzenesulfonamido-1,3,4-Thiadiazole-5-Sulfonamide (CL 11,366), Acetazolamide and Methazolamide. DAVID M. TRAVIS, CHRISTINE WILEY AND THOMAS H. MAREN..... 464

Studies of the Metabolism of Some Compounds of the 4-Amino-7-Chloroquinoline Series. E. W. McCHESNEY, W. D. CONWAY, W. F. BANKS, JR., J. E. ROGERS AND J. M. SHEKOSKY..... 482

Index, Volume 151, January-March 1966..... 495