

CONTENTS

NUMBER 1, MAY, 1956

I. Effect of Sarin upon Potassium Loss by the Submandibular Gland. J. H. Wills and Lea M. Somers	1
II. Brom Lysergic Acid Diethylamide: a Highly Potent Serotonin Antagonist. Lauro Sollero, Irvine H. Page and G. C. Salmoiraghi	10
III. Morphine Antagonists. I. The Distribution and Excretion of Morphine-C ¹⁴ in the Presence of N-Allyl Normorphine and 5-Aminoacridine. Leonard B. Achor and E. M. K. Geiling	16
IV. The Effects of Calcium Disodium Ethylenediamine Tetraacetate on Uranium Poisoning in Rats. R. Dagirmanjian, E. A. Maynard and H. C. Hodge	20
V. Stereochemical Factors Involved in Cholinolytic Activity. J. P. Long, F. P. Luduena, B. F. Tullar and A. M. Lands	29
VI. Action of Sodium Salicylate and Related Compounds on Tissue Metabolism <i>In Vitro</i> . Theodore M. Brody	39
VII. Localization of Drugs Within Cells, Binding of Quinacrine by Liver Cell Constituents. L. Reiner and Alfred Gellhorn	52
VIII. Antiarrhythmics. VI. Ajmaline and Serpentine in Experimental Cardiac Arrhythmias. R. B. Arora and B. R. Madan	62
IX. Effect of Adrenocortical Steroids and ACTH Administration on Barbital Anesthesia in Normal Mice. Atsushi Komiya and Katsuhiro Shibata	68
X. Studies on a New Cholinesterase Inhibitor. Roy G. Herrmann and Raymond H. Tust	75
XI. Identification and Assay of Serotonin in Brain. Donald F. Bogdanski, Alfred Pletscher, Bernard B. Brodie and Sidney Udenfriend	82
XII. 2-Alkoxy Benzoate and Thiolbenzoate Derivatives as Local Anesthetics. F. P. Luduena and J. O. Hoppe	89
XIII. Relative Effectiveness of Certain Inhibitory Chemicals on the Three Types of Poliomyelitis Virus. Ariel C. Hollinshead and Paul K. Smith	97
XIV. Effects of the Mercurial Diuretic, Mersalyl, on the Concentration of Protein-bound Sulphydryl in the Cytoplasm of Dog Kidney Cells. E. J. Cafruny and A. Farah	101
XV. Mechanism of Long Duration of Action of Dibenzyline. Sohan L. Agarwal and Stewart C. Harvey	106
XVI. Nalorphine-induced "Abstinence Syndrome" in Morphine-tolerant Albino Rats. Sukru Kaymakcalan and L. A. Woods	112
XVII. Plasma Levels and Excretion of Codeine and Metabolites in the Dog and Monkey. L. A. Woods, H. E. Muehlenbeck and L. B. Mellett	117

NUMBER 2, JUNE, 1956

XVIII. Central Effects of Antitussive Drugs on Cough and Respiration. N. K. Chakravarty, A. Matallana, R. Jensen and H. L. Borison	127
XIX. Effects of Reserpine on Conditioned Avoidance Behavior in Normal and Brain-operated Monkeys. Richard P. Smith, Althea I. Wagman and Arthur J. Riopelle	136
XX. A Study of the Neuropharmacologic Properties of Certain Convulsants, Anticonvulsants and Reserpine. Graham Chen and Barbara Bohner	142
XXI. The Effect of Pancreatectomy on the Toxicity of k-Strophanthin in the Dog. John W. Travis, Alexander C. Keyl and Carl A. Dragstedt	148

XXII. Actions of Certain Antibiotics on the Isolated Dog Heart. Henry H. Swain, Glenn F. Kiplinger and Theodore M. Brody.....	151
XXIII. The Metabolic Conversion of 3-Methyl-5-ethyl-5-phenyl Hydantoin (Mesantoin) and of 5-Ethyl-5-phenyl Hydantoin (Nirvanol) to 5-Ethyl-5-(<i>p</i> -hydroxyphenyl) Hydantoin. Thomas C. Butler	160
XXIV. Blockade by Brom-lysergic-acid-diethylamide (BOL) of the Potentiating Action of Serotonin and Reserpine on Hexobarbital Hypnosis. G. C. Salmiragli, L. Sollero and Irvine H. Page.....	166
XXV. Ganglionic Blocking Properties of 3-Methylaminoisocamphane Hydrochloride (Mecamylamine): a Secondary Amine. Clement A. Stone, Mary L. Torchiana, Albert Navarro and Karl H. Beyer	169
XXVI. The Anesthetic Effects of Ethyl Vinyl Ether, Divinyl Ether, and Diethyl Ether on Mice. E. Trier Mörch, J. B. Ayerst and M. S. Berger.....	184
XXVII. Nalorphine, a Potent Analgesic in Man. Arthur S. Keats and Jane Telford..	190
XXVIII. The Direct Antithyroid Action of Reserpine, Chlorpromazine and Other Drugs. S. W. Mayer, F. H. Kelly and M. E. Morton.....	197
XXIX. Effects of Cortisone upon Liver Enzymes and Protein Synthesis. J. Howard Clark, Jr. and Leroy A. Pesch.....	202
XXX. The Conversion of Dihydroxyphenylalanine-2-C ¹⁴ (Dopa) to Norepinephrine by Bovine Adrenal Medullary Homogenates. D. J. Demis, H. Blaschko and A. D. Welch.....	208
XXXI. Modification of the Effects of Sympathomimetic Amines and of Adrenergic Nerve Stimulation by 1-Isonicotinyl-2-isopropylhydrazine (IIH) and Isonicotinic Acid Hydrazide (INH). Kazuya Kamiyo, George B. Koelle and Helga H. Wagner.....	213
XXXII. The Effect of a Vasoconstrictive Agent, Metaraminol, on Human Tolerance to Acceleration. Theodore Greiner	228
XXXIII. Release of Blood Platelet Serotonin by Reserpine and Lack of Effect of Bleeding Time. P. A. Shore, Alfred Pletscher, E. G. Tomich, Ronald Kuntzman and B. B. Brodie	232
XXXIV. The Effects of Quinidine, Procaine Amide and Pyrilamine on the Membrane Resting and Action Potential of Guinea pig Ventricular Muscle Fibers. E. A. Johnson	237
XXXV. Drug Alteration of Transmembrane Potentials in Atrial Pacemaker Cells. Theodore C. West, Gertrude Falk and Peter Cervoni	245

NUMBER 3, JULY, 1956

XXXVI. Chromatographic Fractionation of the Urinary Excretory Products from Meralluride. Carroll A. Handley and Richard A. Seibert.....	253
XXXVII. The Effects of Morphine-nalorphine Mixtures on Psychomotor Performance. Robert O. Bauer and Richard G. Pearson	258
XXXVIII. Distribution and Excretion of Radioactivity in Rats Receiving N-Methyl-C ¹⁴ -erythromycin. Cheng-Chun Lee, R. C. Anderson and K. K. Chen....	265
XXXIX. The Excretory Products of N-Methyl-C ¹⁴ -erythromycin in Rats. Cheng-Chun Lee, R. C. Anderson and K. K. Chen.....	274
XL. A Study of the Mechanism of the Effect of Dietary Fat in Decreasing Thiopental Sleeping Time. Edmund G. Anderson and Donald F. Magee..	281
XLI. Metabolism of the Ultrashort-acting Thiobarbiturate, Methitural (Neraval). Margaret W. Blake and Preston L. Perlman	287
XLII. The Effect of Large Doses of 1,3-Indandiones and 4-Hydroxycoumarins on Oxygen Consumption of Anesthetized Cats and Rabbits. Ulf Söderberg and Carl Axel Wachtmeister	298
XLIII. The Biochemmorphology of Renal Tubular Transport: Iodinated Benzoic Acids. P. K. Knoefel and K. C. Huang	307

XLIV. Studies on Veratrum Alkaloids. XXIV. The Inhibition by Veratramine and Veratrosine of the Cardioaccelerator Effect of Electrical Stimulation of the Accelerator Nerves. I. R. Innes, H. W. Kosterlitz and O. Krayer.....	317
XLV. The Enzymatic N-Demethylation of Narcotic Drugs. Julius Axelrod....	322
XLVI. An Experimental Investigation of the Cholinolytic Activity of Some New Synthetic Esters of Amino-alcohols. A. M. Lands and F. P. Luduena....	331
XLVII. Studies on the Fate of Carbon-14 Labeled Phenolphthalein. W. J. Visek, W. C. Liu and L. J. Roth.....	347
XLVIII. Anesthesia. L. The Effect of Certain Narcotics on Oxidative Phosphorylation. Arthur Wolpert, Edward B. Truitt, Jr., Frederick K. Bell and John C. Krantz, Jr.....	358

NUMBER 4, AUGUST, 1956

XLIX. The Action of Ryanodine on Mammalian Skeletal Muscle <i>In Situ</i> . Leonard Procita.....	363
L. The Initiation and Pharmacologic Reactivity of a Ventricular Pacemaker in the Intact Animal. Jay Roberts, Frank Standaert, Yung In Kim and Walter F. Riker, Jr.....	374
LI. Carbonic Anhydrase Inhibition. V. N ⁶ -Substituted 2-Acetylamino-1,3,4-thiadiazole-5-sulfonamides: Metabolic Conversion and Use as Control Substances. Thomas H. Maren.....	385
LII. Carbonic Anhydrase Inhibition. VI. The Effect of Acetazolamide on Cerebrospinal Fluid Flow. Sven J. Kister.....	402
LIII. Comparison of the Effect of Ergotamine and Hydergine on Muscle and Skin Blood Flow in the Anesthetized Dog. Thomas J. Haley and W. G. McCormick.....	406
LIV. Biotransformation Products of Meperidine Excreted in the Urine of Man. N. P. Plotnikoff, E. Leong Way and H. W. Elliott.....	414
LV. Isolation from Liver of Tetraethyllead after Its Inhalation. Charles D. Stevens, Charles J. Feldhake and Robert A. Kehoe.....	420
LVI. The Pharmacology of β -Aminoethylisothiuronium Bromide in the Cat. Victor DiStefano, Daniel E. Leary and David G. Doherty.....	425
LVII. Hyposthenuria and Other Renal Effects of Hexamethonium in the Hydrogenic Anesthetized Dog. F. del Greco, A. C. Corcoran and Irvine H. Page.....	434
LVIII. Studies on the Mechanism of the Positive Inotropic Action of Malonate. Jerome M. Covin and David A. Berman.....	443
LIX. Analgesic-potentiating and Diuretic Effects of 1-Dimethylamino-3-cyano-3-phenyl-4-methyl-hexane HCl (Z-4) and 1-Dimethylamino-2-phenyl-3-methyl-pentane HCl (Z-134). James Y. P. Chen	451
LX. The Extracardiac Hypotensive Effect of Veratrum. John C. Rose and Eric J. Lazaro.....	461
LXI. An Evaluation of the Action of Substance P on the Jejunum of the Rabbit. Murray R. Blair and Byron B. Clark.....	467
LXII. Studies on the Renal Tubular Transport of Tetraethylammonium Ion in Renal Slices of the Dog. A. Farah and B. Rennick.....	478
LXIII. Oxytocic Activity of Aminoacetamides and Propionamides. Harry Rosen, Albert Blumenthal, Patricia N. Townsend, Richard Tislow and Joseph Seifter.....	488
LXIV. Index	495