

CONTENTS

NUMBER 1, MAY, 1951

I. The Relationship Between Cholinesterase Activity and Brain Permeability. Margaret E. Greig and Thomas C. Mayberry.....	1
II. The Physiological Disposition and Cardiac Effects of Procaine Amide. Lester Mark, Herbert J. Kayden, J. Murray Steele, Jack R. Cooper, Irving Berlin, E. A. Rovenstine and Bernard B. Brodie.....	5
III. Alkyl Nitrates. XIV. The Effect of Nitrites and Nitrates on Arterial Adenosine Triphosphatase. John C. Krantz, Jr., C. Jelleff Carr and Harold H. Bryant.....	16
IV. The Action on Nicotine-Induced Tremors of Substances Effective in Parkinsonism. D. Bovet and V. G. Longo.....	22
V. Factors Influencing Fluoroacetate Poisoning. Practical Treatment with Glycerol Monoacetate. Maynard B. Chenoweth, Alexander Kandel, Linares B. Johnson and Donald R. Bennett.....	31
VI. The Effect of Topically Applied Adrenergic Blocking Agents upon the Peripheral Vascular System. Thomas J. Haley and Margaret Andem.....	50
VII. Physiological Performance Following a Hypnotic Dose of a Barbiturate. Robert A. Goodnow, Henry K. Beecher, Mary A. B. Brazier, Frederick C. Mosteller and Renato Tagiuri.....	55
VIII. Metabolic Effects of Anesthesia. II. A Comparison of Acid-Base Equilibrium in Man and in Dogs under Ether and under Cyclopropane Anesthesia. John P. Bunker, Henry K. Beecher, Bernard D. Briggs, William R. Brewster and Benjamin A. Barnes.....	62

NUMBER 2, JUNE, 1951

IX. The Cardiovascular and Respiratory Effects of 3-Hydroxy-2-Phenyl Cinchoninic Acid. Harry A. Walker, Susanne Wilson, Carolyn Farrar, Richard J. Langston and Arthur P. Richardson.....	71
X. The Pharmacology of the Mono Methyl Ethers of Mono-, Di-, and Tripropylene Glycol in the Dog with Observations on the Auricular Fibrillation Produced by these Compounds. F. E. Shideman and Leonard Procita.....	79
XI. Protection Against Experimental Beryllium Poisoning by Aurin Tricarboxylic Acid. Marcia R. White, Asher J. Finkel and Jack Schubert.....	88
XII. The Effect of the Administration of Carbon Tetrachloride to Rats on Certain Reactions of the Liver In Vitro. Melissa L. Richter.....	94
XIII. Studies on the Metabolism of Para-Aminobenzoic Acid. Celia White Tabor, Marion V. Freeman, Judith Baily and Paul K. Smith.....	98
XIV. Studies on Intravenously Injected True Cholinesterase. Alexander G. Karczmar, Theodore Koppanyi and Guy C. Sheatz.....	103
XV. The Absorption, Distribution and Elimination of Radioactive Carbon Tetrachloride by Monkeys on Exposure to Low Vapor Concentrations. D. D. McCollister, W. H. Beamer, G. J. Atchison and H. C. Spencer.....	112
XVI. The Action of Mercurial Diuretics on the Effective Refractory Period, Electrical Excitability and Conduction Velocity in the Mammalian Heart. A. Farah and W. Mook.....	125
XVII. Study of Drug Action on Mammalian Ciliated Epithelium. John V. Scudi, Eugene T. Kimura and John F. Reinhard.....	132
XVIII. Combined Action of Cardiotoxic Drugs: A Study on the Acute Toxicity of Combined Quinidine, Meperidine, Pentobarbital, Procaine and Procaine Amide. B. Calesnick, N. H. Smith and R. Beutner.....	138

## NUMBER 3, JULY, 1951

XIX. The Augmenting Effect of the Pressor Hormone of Pituitary Extract upon the Contraction of the Isolated Perfused Mammalian Heart: The Bearing of Coronary Flow on Heart Contraction. F. C. Lu.....	145
XX. The Metabolism of C <sup>14</sup> Carboxyl Salicylic Acid in the Dog and in Man. Edward L. Alpen, George H. Mandel, Victor W. Rodwell and Paul K. Smith.....	150
XXI. The Heparin-Like Activity of a New Anticoagulant, Treburon. Carmen N. Mangieri, Recha Engelberg and Lowell O. Randall.....	156
XXII. Studies on the Mechanism of Acute Beryllium Poisoning. Kenneth W. Cochran, Marcella M. Zerwic and Kenneth P. DuBois.....	165
XXIII. The Acute, Chronic and Topical Toxicity of Zirconium Carbonate. Joseph W. E. Harrisson, Bernard Trabin and Eric W. Martin.....	179
XXIV. Antibiotic Lactones and Synthetic Analogs. III. Efficacy in Experimental Trypanosomiasis. Nicholas J. Giarman.....	185
XXV. Tetraethylammonium and Cholinesterase Activity. Charles J. Kensler and Robert W. Elsner.....	196
XXVI. The Influence of Procaine and Some Related Compounds Upon Experimental Auricular Flutter in the Dog. Barbara B. Brown and George H. Acheson.....	200
XXVII. Benemid, p-(Di-n-Propylsulfamyl)-Benzoic Acid: Toxicologic Properties. Samuel E. McKinney, Harold M. Peck, Joseph M. Bochey, Bruce B. Byham, Grace S. Schuchardt and Kary H. Beyer.....	208

## NUMBER 4, AUGUST, 1951

XXVIII. Acute Tolerance to Thiopental. Bernard B. Brodie, Lester C. Mark, Philip A. Lief, Eleanore Bernstein and E. M. Papper.....	215
XXIX. An Investigation of the Molecular Configurations Favorable for Stimulation or Blockade of the Acetylcholine-Sensitive Receptors of Visceral Organs. A. M. Lands.....	219
XXX. The Action of Histamine and Antihistaminic Substances on the Endothelial Cells of the Small Capillaries in the Skin. A. Gedeon Matoltsy and Margit Matoltsy.....	237
XXXI. Evaluation of Certain Antihistaminics for Use in Auricular Fibrillation. Elton L. McCawley, George A. Weston and N. A. David.....	250
XXXII. Alkyl Nitrites. XV. The Effect of Nitrites and Nitrates on the Oxygen Uptake of Arterial Tissue. John C. Krantz, Jr., C. Jelleff Carr and M. Joyce Knapp.....	258
XXXIII. Studies on Veratrum Alkaloids. XIV. The Antiaccelerator Cardiac Action of Derivatives of Veratramine and Jervine and of Synthetic Steroid Secondary Alkamines Obtained from Pregnenolone and from Sapogenins. Otto Kraye, Frederick C. Uhle and Paula Ourisson.....	261
XXXIV. The Effect of Methadone Isomers, Morphine, and Pentobarbital on the Blood Glucose of Dogs. D. T. Watts.....	269
XXXV. Parasympathomimetic Effects of the Ethylal of $\gamma$ -Trimethylammoniumprop- anediol Iodide (F2268). E. A. Carr, Jr. and D. S. Riggs.....	272
XXXVI. The Occurrence of Nor-Epinephrine in the Chinese Toad Venom. H. M. Lee and K. K. Chen.....	286
XXXVII. Index.....	291