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


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


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


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


CONTENTS

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


XXI. The Heparin-Like Activity of a New Anticoagulant, Treburon. Carmen N. Mangieri, Recha Engelberg and Lowell O. Randall .................................................. 156


XXIII. The Acute, Chronic and Topical Toxicity of Zirconium Carbonate. Joseph W. Harrison, 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. Elaner .................................................. 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


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 Krayer, 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 γ-Trimethylammoniumpropanediol Iodide (F2288). 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