CONTENTS

NUMBER 1, JANUARY, 1947

I. Tests of 2,3-Dimercaptopropanol and Related Dithiols for Decontamination of Lewisite on Human Skin. John F. Thomson, Joseph Savit and Eugene Goldwasser ..................................................... 1

II. The Effect of Sodium Caprylate on the Cardiac Output of the Isolated Frog Heart. Henry W. Elliott, Helen M. Kipple and Victor E. Hall .......... 14

III. The Chronic Oral Toxicity of DDT (2,2-Bis (p-Chlorophenyl-1,1,1-Trichloroethane). O. Garth Fitzhugh and Arthur A. Nelson ............. 18

IV. Pharmacodynamic Studies of a New Antihistaminic Agent, Pyribenzamine (N,N-Dimethyl-N'-Benzyl-N'(α-Pyridyl)-Ethylene Diamine Hydrochloride). II. Effects on Smooth Muscle of the Guinea Pig and Dog Lung. Frederick F. Yonkman, Ernst Oppenheimer, Barbara Rennick and Elizabeth Pellet ................................. 31


VI. A Study of Certain Factors Governing the Penetration of Mercury Through the Skin of the Rat and the Rabbit. Edwin P. Laug, Elizabeth A. Vos, Frieda M. Kunze and Ernest J. Umberger ........................................ 52

VII. Drug Action Upon Myocardial Epinephrine-Sympathin Concentration and Heart Rate (Nitroglycerine, Papaverine, Priscol, Dibenzamine Hydrochloride). W. Raab, M.D., and R. J. Humphreys, B.S ............. 64

VIII. Blood Hemoglobin and Hematocrit Results on Rats Ingesting Sodium Fluoride. F. J. McClure and Arthur Kornberg ........................................ 77

IX. Effect of Antihistamine Drugs on Increased Capillary Permeability Following Intradermal Injections of Histamine, Horse Serum and Other Agents in Rabbits. Muriel R. Last and Earl R. Loew .......................... 81

X. The Excretion of Amphetamine. S. C. Harris, L. M. Searle and A. C. Ivy .................................................. 92

XI. The Effect of Digitalis on the Fluid Distribution of the Body. Carroll A. Handley and Jane Telford .................................................. 97

NUMBER 2, FEBRUARY, 1947

XII. The Effect of Dimethylaminoethyl Benzhydryl Ether Hydrochloride (Benadryl) upon Permeability of Meningeal Capillaries. E. Philip Gelvin, Herbert Elias and Thomas Hodge McGavack .................. 101

XIII. The Effect of Amphetamine Sulfate on Performance of Normal and Fatigued Subjects. Henry W. Newman .................................................. 106

XIV. The Antidotical Action of p-Aminopropiophenone with or without Sodium Thiosulfate in Cyanide Poisoning. Charles L. Rose, John S. Welles, Robert D. Fink and K. K. Chen .................................................. 109


XVI. The Chronic Toxicity and Pathology of Thiouracil in Cats. W. T. McClokey, R. D. Lillie and M. I. Smith .................................................. 125

XVII. Studies on the Pharmacology of Beta-Diethylaminoethyldiphenylthiocacetate, A Synthetic Antispasmodic. Helen Ramsey and A. G. Richardson .................................................. 131

XVIII. Digitalis V. The Baljet Reaction and Pharmacodynamics of Diginin. Frederick K. Bell, C. Jeleff Carr and John C. Krantz, Jr. ............. 143

XIX. A Method of Screening Sympathomimetic Amines for Stimulant Action on the Cerebrum. Nancy V. Clymer and Joseph Seifter .................. 149
CONTENTS

XX. Studies in Chemotherapy of Tuberculosis. II. Activity in Vitro of a Related Series of Ethers and Arylamines. W. Harry Feinstone, Harris L. Friedman, Mary V. Rothlauf, Anna M. Kelly and Roger D. Williams 153

XXI. Pharmacological Properties of a New Adrenergic Blocking Agent: N,N-Dibenzyl-$\beta$-Chloroethylamine (Dibenamine). Mark Nickerson and Louis S. Goodman 167

XXII. Studies on the Mechanism of Action of Thiourea and Related Compounds. III. The Effect of Acute Poisoning on Carbohydrate Metabolism. K. P. Du Bois, R. G. Herrmann and W. F. Erway 186

XXIII. The Protective Action of BAL in Experimental Antimony Poisoning. Harry Eagle, Frederick G. Germuth, Jr., Harold J. Magnuson and Ralph Fleischman 196

NUMBER 3, MARCH, 1947

XXIV. The Toxicity and Analgetic Potency of Salicylamide and Certain of Its Derivatives as Compared with Established Analgetic-Antipyretic Drugs. E. Ross Hart 205

XXV. Glucuronic Acid Excretion After Diethylene Glycol Monoethyl Ether (Carbitol) and Some Other Glycols. Jean K. Fellows, F. P. Luduena and P. J. Hanzlik 210

XXVI. A Comparison of the Bronchodilator Activity of Benadryl with Some of Its Derivatives and Certain Other Substances. Fred W. Ellis 214

XXVII. Anesthesia. XXIV. The Effect of Cholesterol on Pentothal and Ether Anesthesia. de Camp B. Farson, C. Jelleff Carr and John C. Krantz, Jr. 222

XXVIII. A Toxicologic Study of Two Histamine Antagonists of the Benzhydryl Alkamine Ether Group. O. M. Gruhzit and R. A. Fiskin 227

XXIX. Comparative Activity of Various Antihistaminic Substances Towards the Vasodepressor Response to Histamine. David Fielding Marsh and Albert James Davis, Jr. 234

XXX. Pharmacological Properties of Antihistamine Drugs, Benadryl, Pyribenzamine and Neoantergan. T. R. Sherrod, Earl R. Loew and H. F. Scholemer 247

XXXI. Circulatory Properties of iso-Thioureas, Guanidines, iso-Ureas and Amidines. F. N. Fastier and F. H. Smirk 256

XXXII. The Pharmacology of Benzyl-Imidazoline (Priscol). Raymond P. Ahlquist, Russell A. Huggins and R. A. Woodbury 271

XXXIII. Factors Influencing the Toxicity of Sympathomimetic Amines to Solitary Mice. M. R. A. Chance 279


XXXV. The Effect of Perfusion through the Isolated Liver on the Prothrombin Activity of Blood from Normal and Dicumarol Treated Rats. Albert M. Lupton 306

XXXVI. Cardiovascular Effects of Sodium Caprylate in the Cat. Helen M. Kipple, Milton S. Waldman and Victor E. Hall 313

XXXVII. On the Mechanism of Paralysis Resulting from Toxin of Clostridium botulinum. The Action of the Toxin on Acetylcholine Synthesis and on Striated Muscle. Clara Torda and Harold G. Wolff 320

XXXVIII. Studies on Veratrum Alkaloids. VII. Receptor Areas in the Coronary Arteries and Elsewhere as Revealed by the Use of Veratridine. G. S. Dawes 325

XXXIX. The Effect of BAL and BAL-Glucoside Therapy on the Excretion and Tissue Distribution of Injected Cadmium. Helen M. Tepperman 343
XL. Central and Autonomic Effects Following the Combined Administration of Sodium Arsenite and 2,3-Dimercaptopropanol (BAL). Theodore Koppanyi and Frederick Sperling ........................................ 350
XLI. Comparative Central Depressant Actions of Some 5-Phenyl-5-Alkyl Barbituric Acids. Gordon A. Alles, Charles H. Ellis, George A. Feigen, and Mildred A. Redemann .................................................. 356
XLII. 3',5'-Dibromosulfanilamide: Toxicity, Absorption, and Metabolism. Evan W. McChesney ......................................................... 368
XLIII. The Effect of Thorotrast on Anaphylactic Shock in the Dog. Andres Goth and James Holman ...................................................... 379
XLV. Index .................................................................................... 387