CONTENTS

NUMBER 1, JANUARY, 1940

I. Prolonged Administration of Large Doses of Acetanilid in Monkeys with Special Reference to Blood Changes. Paul K. Smith.......... 1


III. Studies of Two New Substituted Vinyl Barbituric Acids. James P. Hendrix.......................................................... 22

IV. II. The Effect of Intravenous Injections of Sodium Diphenyl Hydantoinate (Dilantin) on Respiration, Blood Pressure, and the Vagus Nerve. Victor G. Haury and Miles E. Drake............... 36

V. The Use of Pentamethylenetetrazol (Metrazol) as a Respiratory Stimulant in Acute Alcoholic Depression. F. D. McCrea and Haywood M. Taylor................................................... 41

VI. The Effect of Age of Cats on Susceptibility to Digitalis. H. B. Haag and R. L. Corbell, Jr............................................. 45

VII. The Passage of Bromide, Iodide and Thiocyanate into and out of the Cerebrospinal Fluid. G. B. Wallace and B. B. Brodie. With the assistance of Seymour Leshin and Elliott Brand............ 50

VIII. Some Pharmacological Properties of Unsymmetrical Ethyl-o-ethylphenylurea. Axel M. Hjort, Edwin J. deBeer, Johannes S. Buck and David W. Fassett.................................................. 56

IX. The Hypnotic Effect of Repeated Injections of Unsymmetrical Ethyl-o-ethylphenylurea in Albino Rats and the Influence of Sex Thereon. Axel M. Hjort, Edwin J. deBeer and David W. Fassett........... 62


XI. Some Tetrahydroisoquinolines. IV. The Circulatory Adrenolytic Effects. Axel M. Hjort, Edwin J. deBeer and David W. Fassett..... 73

XII. Further Observation upon the Effect of Parenteral Injection of Certain Methylated Purines upon Creatine-Creatinine Metabolism. A. Link Koven and Howard H. Beard.............................. 80

XIII. Studies of Cyclopropane. VIII. The Effect of Premedication with Morphine or Amytal upon the Heart Rate, Rhythm, and Blood Pressure in Dogs under Cyclopropane Anesthesia. Benjamin H. Robbins and James H. Baxter, Jr........................................ 85

XIV. Some New Aspects of Morphine Action. Effect on Intestine and Blood Pressure; Toxicity Studies. Donald Slaughter and E. G. Gross................................................................. 96

XV. Some New Aspects of Morphine Action. Effects on Pain. Donald Slaughter and Donald W. Munsell.................................. 104

XVI. Cardiovascular Changes Following the Intravenous Administration of Barium Chloride. Paul K. Smith, Alexander W. Winkler and Hebbel E. Hoff.................................................. 113
CONTENTS

XVII. The Toxicity of Lasiocarpine. K. K. Chen, Paul N. Harris and Hans A. Schulze .......................................................... 123

XVIII. The Action and Toxicity of Platiphylline and Seneciphylline. K. K. Chen, Paul N. Harris and Charles L. Rose .................. 130

XIX. On the Prevention of the Blood Pressure Fall During Spinal Anesthesia in the Rabbit. Elizabeth M. Cranston and Raymond N. Bieter . 141

XX. The Effect of Sympathomimetic and Other Substances on the Contraction of Skeletal Muscle. Edith Bulbrin and J. H. Burn ........ 150


XXII. Studies on the Mechanism of the Protective Action of Xanthine against Carbon Tetrachloride Poisoning. J. C. Forbes and E. L. Outhouse ......................................................... 185

XXIII. Comparative Effects of Propylene Glycol, Other Glycols, and Alcohol on the Liver Directly. H. W. Newman, W. Van Winkle, Jr., N. K. Kennedy and M. C. Morton ...................................................... 194

XXIV. An Experimental Comparison of Sulfanilamide and Benzylsulfanilamide with Particular Reference to the Significance of Variations in Experimental Technic. John S. Lockwood and Harry J. Robinson ...................................................... 201

XXV. A Study of the Pharmacological Properties of Certain Saturated Fluorocarbons. H. C. Struck and E. B. Plattner .................. 217

XXVI. Effect of Selenium on Urease and Arginase. C. I. Wright ........ 220

XXVII. The Pharmacology of Certain Furfuryl and Tetrahydro-furfuryl Ammonium Iodides. Edwin J. Fellows and A. E. Livingston .... 231

XXVIII. The Influence of Epinephrine on Shivering and on Metabolism in the Cold. V. E. Hall and P. B. Goldstone ..................... 247

XXIX. Administration of Drugs in Food for Chemotherapy Studies in Mouse Pneumococcus Infections. Raymond N. Bieter, W. P. Larson, Elizabeth M. Cranston and Milton Levine ................................. 252


XXXI. The Effects of Digitoxin and Potassium on Striated Muscle. S. A. Guttman and McKeen Cattell ........................................ 267

XXXII. The Metabolic Fate of N-Substituted Derivatives of Barbital. Milton T. Bush and Thomas C. Butler .................................. 278

XXXIII. Chemical Properties and Physiological Actions of Triturus Embryonic Toxin. D. B. Horsburgh, E. L. Tatum and V. E. Hall .......... 284

XXXIV. Dietary Protein and the Toxicity of Sodium Selenite in the White Rat. Howard B. Lewis, Julius Schultz, and Ross A. Gortner, Jr .... 292

XXV. The Nature of the Pilomotor Response to Acetyl Choline; Some Observations on the Pharmacodynamics of the Skin. Julius M. Coon and Stephen Rothman ........................................................................... 301

XXV. Extraclicular and Intracellular Hydrogen Ion Concentration in Relation to Anesthetic Effects of Barbituric Acid Derivatives. G. H. A. Clowes, A. K. Keltch and M. E. Krahl ...................................................... 312
CONTENTS


XXXVIII. Thiocyanate Formation in Cyanide Poisoning as Affected by Methylene Blue and Sodium Nitrite. Ralph G. Smith, B. Mukerji and John H. Seabury ......................................................... 351


XLI. The Effect of Quantity on the Intensity and Duration of Local Anesthesia, Determined by a New Test. A. J. Leser .................................................. 389

XLII. A Comparative Study of Twenty-five Alkylthiobenzoates with Respect to Surface Anesthesia, Toxicity and Systemic Effects. H. R. Hulpieu, John H. Kitchel and J. H. Weatherby ......................... 395

XLIII. The Therapeutic Activity of Sulfanilamide and Allied Compounds in Experimental Brucellosis of Mice. John A. Kolmer with the assistance of Anna M. Rule ......................... 406

XLIV. The Excretion of a Combined Form of Morphine in Tolerant and Non-Tolerant Dogs. E. G. Gross and Vincent Thompson ......................... 413

XLV. The Detoxication and Excretion of Beta Phenylisopropylamine (Benzedrine). Karl H. Beyer and J. T. Skinner .................................................. 419

XLVI. The Toxic Actions of Sodium Diphenyl Hydantoinate (Dilantin) When Injected Intraperitoneally and Intravenously in Experimental Animals. Charles M. Gruber, Victor G. Haury and Miles E. Drake. With the assistance of F. S. Derr, L. R. Forcey and C. M. Gruber, Jr. ......................... 433


XLVIII. On the Protective Action of Testosterone against the Kidney Damaging Effect of Sublimate. Hans Selye .................................................. 454

XLIX. The Blacktongue Curative Effect of Pyridine-9-Carboxylic Acid Diethylamide (Coramine). David T. Smith, George Margolis and Lester H. Margolis .................................................. 458

L. The Effect of Drugs on Vitamin C Excretion. Leo T. Samuels, Norton D. Rits and Ellen B. Poyet .................................................. 465

LI. The Effect of Furfuryl Trimethyl Ammonium Iodide on Various Autonomic Functions in Man. Abraham Myerson, Max Rinkel, Julius Loman and William Dameshek .................................................. 476

LII. Studies on the Absorption, Distribution and Elimination of Alcohol. V. The Influence of Glycocol upon the Absorption of Alcohol. Howard W. Haggard and Leon A. Greenberg .... 482

LIII. The Relation between Drug Action and the Calcium-Potassium Ratio in Striated Muscle. A. M. Harvey .................................................. 494

LIV. Index .................................................................................. 501