**CONTENTS**

**NUMBER 1, JANUARY, 1941**

I. The Toxicity of Strontium and Calcium. Versa V. Cole, Ben K. Harned and Roberta Hafkesbring .................................................. 1

II. The Action of Strontium and Calcium on the Uterus. Ben K. Harned and Versa V. Cole .................................................. 6

III. The Effect of Para-Aminobenzoic Acid on the Bacteriostatic Action Produced by Sodium Paranitrobenzoate on a Strain of Streptococcus Viridans. John K. Miller .................................................. 14

IV. Some Toxicological and Pharmacological Properties of the Proteolytic Enzyme, Ficin. Hans Molitor, Charles W. Musshett and Samuel Kuna .................................................. 20

V. A Comparison of the Infantile and Adult Rat Methods for the Assay of the Oestrous-Inducing Gonadotrophic Substance. R. D. Heard .................................................. 30

VI. The Electrolytic Dissociation of Morphine Derivatives and Certain Synthetic Analgetic Compounds. Fred W. Oberst and Howard L. Andrews .................................................. 38

VII. The Effects of Certain Chemical Changes on the Addiction Characteristics of Drugs of the Morphone, Codeine Series. C. K. Himmelsbach .................................................. 42

VIII. A Comparison of the Response of Yaws and Syphilis in the Rabbit to Therapy with Mapharsen and Necarsphenamine. B. J. Longley, N. M. Clausen and A. L. Tatum .................................................. 49

IX. Chemotherapeutic Activity of N-Acylsulfanilhydroxamides. Bettylee Hampil, G. W. Webster and Maurice L. Moore .................................................. 52

X. The Local Anesthetic Activity and Toxicity of Alkamine Esters of p-Fluorobenzoic Acid. E. E. Campaigne, A. C. Starke, Jr., L. S. Fosdick and C. A. Dragstedt .................................................. 59

XI. Further Study of Central Stimulation from Sympathomimetic Amines. J. W. Schulte, E. C. Reif, J. A. Bacher, Jr., W. S. Lawrence, and M. L. Tainter .................................................. 62

XII. Pharmacological Studies in Experimental Alcoholism. I. The Effect of Sympathomimetic Substances on the Blood-Alcohol Level in Man. Max Rinkel and Abraham Myerson .................................................. 75

XIII. The Potentiation and Paralysis of Adrenergic Effects by Ergotoxine and Other Substances. Chang-Shaw Jang .................................................. 87

XIV. Adrenaline Destruction in the Liver and Methylene Blue. Flora J. Philpot and G. Cantoni .................................................. 95

**NUMBER 2, FEBRUARY, 1941**

XV. Experiences with the Biological Assay of Several Sympathicotonic Substances Including Epinephrine. Axel M. Hjort, Edwin J. deBeer and Lowell O. Randall .................................................. 105

XVI. Studies on Purified Digitalis Glucosides. III. The Relationship Between Therapeutic and Toxic Potency. McKeen Cattell and Harry Gold .................................................. 114
CONTENTS

XVII. Anesthesia. III. The Pharmacology of Methyl Allyl Ether. John C. Krantz, Jr., C. Jelleff Carr, Sylvan Forman and W. G. Harne 126

XVIII. Studies of the Urinary Excretion of Guanidine Administered Orally to Normal Persons and Patients with Myasthenia Gravis. A. S. Minot and Helen E. Frank 130

XIX. Observations on the Toxicology of Sulfathiazole and Some Related Compounds. H. A. Walker and H. V. van Dyke 138

XX. The Enzymic Inactivation of Substituted Phenyl-propyl-(Sympathomimetic)-Amines. Karl H. Beyer 151

XXI. The Enzymatic Deacetylation of Heroin and Related Morphone Derivatives by Blood Serum. C. I. Wright 164

XXII. The Action of Berberine on Mammalian Hearts. Chang-Shaw Jang 178


XXIV. The Toxicity of Dilaudid Injected Intravenously into Mice. M. E. Buchwald and G. S. Eadie 197

XXV. Effect of Sulfur Compounds in the Diet on Sulfanilamide Cyanosis and Anemia. Arthur P. Richardson 203

XXVI. Toxicity of Naphthoquinones with Vitamin K Activity in Mice. Michael B. Shimkin 210

XXVII. Experimental Study of Tolerance to Sulfanilamide in the Albino Rat. Abraham D. Krems, Arthur W. Martin and James M. Dille 215

XXVIII. Effects of Continued Cadmium Feeding. Robert H. Wilson, Floyd DeEds and Alvin J. Cox, Jr. 222

XXIX. On the Role of the Liver in the Detoxification of Steroid Hormones and Artificial Estrogens. Hans Selye 236

XXX. The Distribution of Injected Organic Diselenides in Tissues of Tumor-Bearing Animals. Saul B. Gusberg, Paul Zameenik and Joseph C. Aub 239

XXXI. The Estimation by a Manometric Method of the Activity of Cholinesterase in Lymph. Dale G. Friend and Otto Krayer 246

XXXII. The Rate of Thermal Destruction of Water Balance Principles in Pituitary (Posterior Lobe) Extract Assayed by the Burn and Boyd-Mack Methods. Eldon M. Boyd and Roderick W. Dingwall 253

XXXIII. The Biological Estimation of Ergometrine. Edwin J. deBeer and Paul E. Tullar 256

XXXIV. Pharmacologic Responses of Daphnia Magna. Torald Sollmann and Walter Webb 261

XXXV. The Effects of Sodium Diphenyl Hydantoinate (Dilantin) on Vitamin C Level in Tissues and Vitamin C Excretion in Rats. Miles E. Drake, Charles M. Gruber and Victor G. Haurie 268


XXXVII. The Action of Methylene Blue Upon Cyanide Poisoning in the Turtle. J. M. Johlin 280

XXXIX. The Effect of Histamine on the Pulmonary Blood Pressure of Various Animals With and Without Anesthesia.  R. A. Woodbury and W. F. Hamilton .......................... 293

NUMBER 4, APRIL, 1941

XL. Hans Horst Meyer, 1853-1939 ........................................... 301

XLI. Cooling Drugs and Cooling Centres.  F. E. Rosenthal .......... 305


XLIII. A Note on the Pharmacology of Di(β-Cyclohexylethyl) Methylamine Hydrochloride (Cyverine Hydrochloride).  Robert A. Lehman ......... 317


XLV. The Pial Circulation of Normal, Non-Anesthetized Animals. Part I. Description of a Method of Observation.  Theodore P. Sohier, Gladys N. Lothrop and Henry S. Forbes .......................... 325

XLVI. The Fibrillation Threshold after Administration of Digitalis and Ouabain.  René Wégria, J. H. Geyer and B. S. Brown .......... 336

XLVII. Studies in the Absorption, Distribution and Elimination of Alcohol. VIII. The Diuresis from Alcohol and Its Influence on the Elimination of Alcohol in the Urine.  Howard W. Haggard, Leon A. Greenberg and Richard P. Carroll .......................... 349

XLVIII. The Reduction of Neoprontosil by Tissues in Vitro.  Frederick Bernheim ........................................... 344

XLIX. The Electrocardiogram in Acute Emetine Intoxication.  Linn J. Boyd, M.D., F.A.C.P., and David Scherf, M.D. .......................... 362


LI. Effects of Morphine and Its Derivatives on Intermediary Metabolism. II. The Influence of Thiamin Deficiency on the Respiration of Skeletal Muscle and Cocarboxylase Content of Tissues of Normal and Chronically Morphinized Rats.  F. E. Shideman and M. H. Seevers ........................................... 383

LII. Effects of Morphine and Its Derivatives on Intermediary Metabolism. I. The Influence of Morphine, Codeine and Thebaine on the Activity of Several Dehydrogenases and on the Respiration of Rat Cerebrum.  M. H. Seevers and F. E. Shideman ......... 373

LIII. The Action of Vitamin C and Phenol Oxidase in the Inactivation of Beta Phenylisopropylamine (Amphetamine).  Karl H. Beyer ........ 394