CONTENTS

NUMBER 1, JANUARY, 1942

I. Effects of Calcium Administered Parenterally to the Normal and
the Parathyroidectomized Dog. Paul L. Bedinger, A. B. Kendrick and
Robert W. Keeton............................................................ 1

II. The Determination of Choral Hydrate, Chloroform, and Related
Substances in Blood. W. Lloyd Adams..................................... 11

III. The Relation of Protein Intake to Lead Poisoning in Rats. H. D.
Baernstein and J. A. Grand.................................................. 18

IV. Studies on the Toxicity of Actinomycin. Harry J. Robinson and
Selman A. Waksman.......................................................... 25

V. Peptide Shock in Rabbits. Franz R. Gotzl and Carl A. Dragstedt... 33

VI. Studies on the Fate of Morphine. Fred W. Oberst..................... 37

VII. A Therapeutic Incompatibility between Sulfapyridine and Quinine.
Ben King Harned and Versa V. Cole..................................... 42

VIII. An In Vitro Study on the Synergistic Action of Sulfamido Compounds
and Azochloramid upon Various Pathogenic Microorganisms. Erwin
Neter.............................................................................. 52

IX. Effect of Treatment with Testosterone Propionate on Mercuric Chloride
Poisoning in Rats. L. P. Longley.......................................... 61

X. The Comparative Physiological Action of Analogous Trimethyl Am-
monium Iodides of Benzene and Furane. Edwin J. Fellows and A. E.
Livingston................................................................. 65

XI. Conjugation of Sulfanilamide by a Pathological Tissue in Vitro. A.
Goth.......................................................... 71

XII. Some Toxicological and Pharmacological Properties of Gramicidin,
Tyrocidine and Tyrothricin. Harry J. Robinson and Hans Molitor 75

XIII. Studies on the Portal Pressure Effects of Digitalis. Frederick P.
Sedgwick and Maurice B. Visscher....................................... 83

XIV. Effects of Morphine and Its Derivatives on Intermediary Metabolism.
III. The Influence of Chronic Morphine Poisoning on the Oxygen
Consumption of Rat Skeletal Muscle. F. E. Shideman and M. H.
Ssevers................................................................. 88

XV. Experimental Comparison of Several Alkylmercuric Chlorides as
"Skin Sterilizing" Agents. Milton T. Bush and Allan D. Base....... 95

NUMBER 2, FEBRUARY, 1942

XVI. In Vitro Action of Sulfonamides on Lymphogranuloma Venereum
Virus. Ernest C. Holder, Sonnia Levine, and Jesse G. M. Bullowa... 99

XVII. The Uricosuric Effects of Certain Polyhydric Alcohols and Saccharides.
G. P. Grabfield and D. Swanson................................. 106

XVIII. A Study of the Toxic Properties of Tung Nuts. J. L. E. Erickson and
J. H. Brown, Jr.......................................................... 114

XIX. The Delay in Onset of Action of Intravenously Injected Anesthetics.
Thomas C. Butler........................................................ 118


XXI. Intravenous Injections of Soluble Bismuth Compounds: Their Toxicity,
and Their Sojourn in the Blood and Organs. Torald Sollmann
and Joseph Seifter..................................................... 134

XXII. The Fate of Certain Sympathomimetic Amines in the Body. Karl H.
Beyer and W. Vernon Lee.............................................. 155
CONTENTS


XXIV. Studies on Sulfonamide-Resistant Organisms. I. Development of Sulfapyridine Resistance by Pneumococci. L. H. Schmidt, Clara Sealer, and H. A. Dettwiler 175

XXV. The Isolation of a Protein from the Pars Neuralis of the Ox Pituitary with Constant Oxytocic, Pressor and Diuresis-Inhibiting Activities. H. B. van Dyke, Bacon F. Chow, R. O. Greep and Alexandre Rothen 190

XXVI. The Effect of Multiple Substituents on the Toxicity and Treponemicidal Activity of Phenylarsenoxide. Harry Eagle, Ralph B. Hogan, George O. Doak and Harry G. Steinman 210

XXVII. The Effects of Some Spasmolytic Substances on Gastric Function. G. Lehmann and P. K. Knoefel 217

XXVIII. The Digitalis-like Principles of Calotropis Compared with Other Cardiac Substances. K. K. Chen, C. I. Bliss and E. Brown Robbins 223

XXIX. A Study of Antidotes for Fluorine. S. Marcovitch and W. W. Stanley 235

XXX. The Mechanism of Morphine Miosis. F. D. McCrea, G. S. Eadie and J. E. Morgan 239

XXXI. Solubility Studies and the Oral Administration of Sodium Sulfapyridine. Sidney S. Sobin 247

XXXII. Assay of Anti-Pernicious Anemia Liver Concentrates by the Use of an Isolated Bone Marrow Preparation. Nello Pace and R. S. Fisher 256

XXXIII. The Pharmacological Behavior of the Intraocular Muscles. IV. The Action of Strychnine on the Dilator and Sphincter Iris. Erich Sachs 262


XXXV. The Spasmolytic and Local Anesthetic Action of Some Derivatives of Fluorene-Carboxylic Acid and Related Compounds. G. Lehmann and P. K. Knoefel 274

XXXVI. Influence of Diet on Sulfanilamide Toxicity. Israel Kapnick, Champ Lyons and John D. Stewart 284

XXXVII. The Relationship Between Chemical Structure and Pharmacological Activity of Forty-Three New Synthetic Local Anesthetics. Alfred Gilman, Louis Goodman, John M. Thomas, George A. Hahn and John M. Prutting 290

XXXVIII. The Effect of Sympathomimetic Amines on Pancreatic Secretion. Harry Greengard, Robert A. Roback and A. C. Ivy 309

XXXIX. Hemodynamic Effects of Intravenous Morphine and Pentothal Sodium. Emanuel M. Papper and Stanley E. Bradley 319

XL. The Quantitative Nature of the Coaction of Bismuth and Arsenical Compounds in the Therapy of Experimental Syphilis. N. M. Clausen, B. J. Longley and A. L. Tatum 324

NUMBER 3, MARCH, 1942

XXXI. Solubility Studies and the Oral Administration of Sodium Sulfapyridine. Sidney S. Sobin 247

XXXII. Assay of Anti-Pernicious Anemia Liver Concentrates by the Use of an Isolated Bone Marrow Preparation. Nello Pace and R. S. Fisher 256

XXXIII. The Pharmacological Behavior of the Intraocular Muscles. IV. The Action of Strychnine on the Dilator and Sphincter Iris. Erich Sachs 262


XXXV. The Spasmolytic and Local Anesthetic Action of Some Derivatives of Fluorene-Carboxylic Acid and Related Compounds. G. Lehmann and P. K. Knoefel 274

XXXVI. Influence of Diet on Sulfanilamide Toxicity. Israel Kapnick, Champ Lyons and John D. Stewart 284

XXXVII. The Relationship Between Chemical Structure and Pharmacological Activity of Forty-Three New Synthetic Local Anesthetics. Alfred Gilman, Louis Goodman, John M. Thomas, George A. Hahn and John M. Prutting 290

XXXVIII. The Effect of Sympathomimetic Amines on Pancreatic Secretion. Harry Greengard, Robert A. Roback and A. C. Ivy 309

XXXIX. Hemodynamic Effects of Intravenous Morphine and Pentothal Sodium. Emanuel M. Papper and Stanley E. Bradley 319

XL. The Quantitative Nature of the Coaction of Bismuth and Arsenical Compounds in the Therapy of Experimental Syphilis. N. M. Clausen, B. J. Longley and A. L. Tatum 324

NUMBER 4, APRIL, 1942


XLII. Studies on Veratrum Alkaloids. I. The Action of Veratrine upon the Isolated Mammalian Heart. Otto Krayer and Rafael Mendes 350
XLIII. Action of Phenylcinchoninic Acid in Preventing Experimentally Produced Convulsions in Rabbits. L. J. Pollock, I. Finkelman and E. L. Tigay .......................................................... 365
XLIV. Determination of Ethyl Alcohol with the Photoelectric Colorimeter. Henry Newman and Mason Abramson ......................................................... 369
XLVI. The Action of Simple Lactones Related to Cardiac Aglycones. K. K. Chen, Frank A. Steldt, Josef Fried and Robert C. Elderfield .......... 381
L. Index .............................................................................................................. 409