CONTENTS

NUMBER 1, SEPTEMBER, 1945

I. The Calculation of Biological Assay Results by Graphic Methods. The All-or-None Type of Response. Edwin J. de Beer.......................... 1

II. Antithyroid Studies. II. The Goitrogenic Activity of Some Imidazoles and Benzimidazoles. W. G. Bywater, D. A. McGinty and N. D. Jenesel........ 14

III. The Experimental Basis for the Quantitative Chemotherapy of B. novyi in Mice with a Comparison of Action of Penicillin and Dichlorphenarsine Hydrochloride. Arthur P. Richardson, Harry A. Walker, Prudence Loeb and Irving Miller............................ 23

IV. Distribution and Fate of Penicillin in the Body. Windsor C. Cutting, F. P. Ludueña, Marshall Fiese, Henry W. Elliott and John Field, II...... 36

V. Effect of Various Electrolytes upon the Toxicity of Desoxycorticosterone Acetate. Hans Selye, J. Mintzberg and E. M. Rowley.............. 42


VII. Isopropyl Alcohol. Acquired Tolerance in Dogs, Rate of Disappearance from the Blood Stream in Various Species, and Effects on Successive Generation of Rats. A. J. Lehman, Henry Schirmer and Eleanor Rickards........ 61

VIII. Further Observations on the Pressor Action of Optical Isomers of Sympathomimetic Amines. E. E. Swanson, Frank A. Steldt and K. K. Chen.................................. 70

IX. The Hydrolysis of Demerol by Liver in vitro. Frederick Bernheim and Mary L. C. Bernheim........................................ 74

X. Biological Comparison of Local Anaesthetics. Edith Bülbök and Isabella Wajda....................................................... 78

XI. Synthetic Substitutes for Atropine. H. R. Ing, G. S. Dawes and Isabella Wajda....................................................... 85

NUMBER 2, OCTOBER, 1945

XII. Continuous Intravenous Chemotherapy of Plasmodium lophurae Infection in Ducks. A. C. Bratton, Jr........................................ 103

XIII. A Short-term Chronic Toxicity Test Employing Mice. A. C. Bratton, Jr.......................... 111


XVIII. Studies on the Mechanism of Action of Sympathomimetic Amines. II. The Effect of Sympathomimetic Amines on the Succinoxidase System as Influenced by the Presence of α-tocopherol Phosphate. Wm. M. Govier, Vera Bergmann and Karl H. Beyer.............................. 143
| XXIX | The Absorption of Thiourea from Ointments Applied to Wounds | Jacob W. Williamson, Jr., Marshall R. Warren and Harold W. Werner | 234 |
| XXX | Antibiotic Substances Active against *M. tuberculosis*. Milton T. Bush, H. L. Dickison, Charlotte B. Ward and Roy C. Avery | 237 |
| XXXI | Sulfonamides for Bacillary Dysentery. I. The Antibacterial Activity of Sulfacarboxythiazoles and Sulfathiadiazole. H. J. White, P. H. Bell, J. F. Bone, J. C. Dempsey and M. E. Lee | 247 |
| XXXII | The Inhibitory Effect of Atabrine and Some Acridine Derivatives upon Acid-Fast Bacilli *in vitro*. Roy C. Avery and Charlotte B. Ward | 258 |
| XXXIII | The Spirocheticidal and Trypanocidal Action of Acid-Substituted Phenyl Arsenoxides as a Function of pH and Dissociation Constants. Harry Eagle | 265 |
| XXXIV | The Sympathomimetic Vasodilating Action of the Aliphatic Amines. Raymond P. Ahlquist | 283 |

**NUMBER 4, DECEMBER, 1945**

| XXXV | The Excretion of Sodium Trichloracetate. O. Zafer, V. Paykoç and Joan F. Powell | 289 |
| XXXVI | The By-Effects of Anti-Hemorrhagic Quinones. II. Antipressor Action in Chronic Hypertension in Man. Norman Rosenthal and Shepard Shapiro | 294 |
| XXXVII | The Absorption of Cinchona Alkaloids in the Chick and Its Relationship to Antimalarial Activity. P. B. Marshall | 299 |
CONTENTS

XXXVIII. Goitrogenic Agents and Thyroidal Iodine: Their Pharmacodynamic Interplay upon Thyroid Function. W. T. Salter, R. E. Cortell and E. A. McKay ................................................................. 310

XXXIX. A Contribution to the Pharmacology of 5-nitro-2-furaldehyde Semicarbazone. John C. Krantz, Jr., and William E. Evans, Jr. .................. 324

XL. Reaction of Tissue Aldehydes with Certain Drugs. Kurt A. Oster and Jean G. Oster ................................................................. 332

XLI. Induction of Nutritional Deficiency by Oral Administration of Streptomycin. Gladys A. Emerson and Dorothy G. Smith .......................... 336

XLII. The Choleretic Action of Dehydrocholic Acid (Decholin) and Deoxycholic Acid (Degalol) in Chronic Biliary Fistula Dogs. Eldon M. Boyd, W. F. Perry and W. C. Stewart ................................................................. 343

XLIII. A Note on the Bell and Krantz Modification of the Knudson-Dresbach Chemical Assay of Digitalis. Bert J. Vos, Jr., and Llewellyn H. Welsh ... 346

XLIV. The Response of the Hamster to Drugs. K. K. Chen, Clarence E. Powell and Nila Maze ................................................................. 348

XLV. Studies on Factors Influencing the Toxicity of Nicotine. The Effects of Water and Food Deprivation; Disturbed Liver Function and Rate of Administration. H. B. Haag, P. S. Larson and J. K. Finnegan .......... 356

XLVI. Determination of DDT (2,2-bis (p-Chlorophenyl) 1,1,1-Trichloroethane) and Its Metabolite in Biological Materials by Use of the Schechter-Haller Method. Ruth R. Ofner and Herbert O. Calvery .................. 363

XLVII. Index ........................................................................................................ 371