

## CONTENTS

NUMBER 1, MAY, 1942

I. The Anti-Histamine Activity of Thymoxyethyldiethylamine and <i>n</i> 'Ethyl- <i>n</i> 'Diethylaminoethylaniline as Judged by the Gastric Response to Histamine. Howard B. Burchell and Richard L. Varco . . . . .	1
II. A Comparison of the Effects of Epinephrine on Blood Pressure when Injected into a Vein and when Injected into the Marrow Cavities of Bone. Miles E. Drake and Charles M. Gruber . . . . .	6
III. The Stimulating Influence of Sodium Citrate on Cellular Regeneration and Repair in the Kidney Injured by Uranium Nitrate. G. L. Donnelly and Russell L. Holman . . . . .	11
IV. The Effect of Some Anaesthetic Agents on the Volume of Body Fluid. D. D. Bonnycastle . . . . .	18
V. Anesthesia. VI. The Anesthetic Action of Cyclopropyl Vinyl Ether. John C. Krantz, Jr., William E. Evans, Jr., Sylvan E. Forman and Henry L. Wollenweber . . . . .	30
VI. Studies on Pain: Measurement of the Effect of Ethyl Alcohol on the Pain Threshold and on the "Alarm" Reaction. H. G. Wolff, J. D. Hardy and H. Goodell . . . . .	38
VII. The Effect of Papaverine, Epinephrine and Quinidine on the Fibrillation Threshold of the Mammalian Ventricles. René Wégria and Neil D. Nickerson . . . . .	50
VIII. Influence of Temperature on the Stimulation of Oxygen Consumption of Isolated Brain and Kidney by 2-4 Dinitrophenol. Frederick A. Fuhrman and John Field 2d . . . . .	58
IX. Studies of the Addiction Liability of "Demerol" (D-140). C. K. Himmelsbach . . . . .	64
X. The Action of Senecionine, Integerrimine, Jacobine, Longilobine, and Spartioidine, Especially on the Liver. Paul N. Harris, Robert C. Anderson and K. K. Chen . . . . .	69
XI. The Action of Monocrotaline and Retronecine. Paul N. Harris, Robert C. Anderson and K. K. Chen . . . . .	78
XII. The Action of Isatidine, Pterophine, and Sceleratine. Paul N. Harris, Robert C. Anderson and K. K. Chen . . . . .	83
XIII. Sulfonamide Therapy of Malaria in Ducks. E. K. Marshall, Jr., J. T. Litchfield, Jr., and H. J. White . . . . .	89

NUMBER 2, JUNE, 1942

XIV. The Pharmacological Behavior of the Intraocular Muscles. V. The Action of Yohimbine and Ergotamine on the Dilator Iridis. E. Sachs and F. F. Yonkman . . . . .	105
XV. Toxicity of Menadione, Menadiol and Esters. S. Ansbacher, Warren C. Corwin and B. G. H. Thomas . . . . .	111
XVI. The Determination of Local Anesthetic-Potency by Observation of Nerve Action-Potentials. A. L. Bennett, J. C. Wagner and A. R. McIntyre . . . . .	125
XVII. Animal Standards for Acute Toxicity of Spinal Anesthetic Agents. Co Tui, A. L. Preiss, C. L. Burstein, and W. F. Ruggiero . . . . .	137
XVIII. Toxicology of the Synthetic Estrogen Diethylstilbestrol and Certain Related Compounds. R. S. Teague . . . . .	145
XIX. The Action of Certain Drugs on Crustacean Muscle. Frank P. Knowlton . . . . .	154
XX. Studies of Morphine, Codeine and Their Derivatives. XVI. Clinical Studies of Morphine, Methylhydro-Morphinone (Metopon) and Dihydrodesoxy-Morphine-D (Desmorphine). Lyndon E. Lee, Jr. . . . .	161

- XXI. A Uterine Principle from *Viburnum Prunifolium*. William E. Evans, Jr., William G. Harne and John C. Krantz, Jr. . . . . 174
- XXII. Further Observations on the Action of Drugs on Coronary Vessel Caliber. Pareдрine, Angiotonin, Renin, Quinidine, Insulin, Coramine, Magnesium Sulphate, Morphine, Acid and Alkali. Stephen R. Elek and L. N. Katz 178
- XXIII. The Micro Determination of Quinine in Blood and Tissues. F. E. Kelsey and E. M. K. Geiling . . . . . 183

## NUMBER 3, JULY, 1942

- XXIV. A. J. Clark, 1885-1941 . . . . . 187
- XXV. The Effect of Hookworm Damage on Levels of Quinine Attained in Blood and Urine of Dogs Following Single Doses of Quinine Sulfate. James C. Andrews and Bailey D. Webb . . . . . 191
- XXVI. A Method for the Bio-assay of Digitalis in Humans. Harry Gold, McKeen Cattell, Harold L. Otto, Nathaniel T. Kwit and Milton L. Kramer . . . . 196
- XXVII. A Practical Technique and Design for the Assay of Digitalis on the Embryonic Chick Heart. Robert A. Lehman and George H. Paff . . . . . 207
- XXVIII. Effects of Cocaine and Sympathomimetic Amines on Humoral Transmission of Sympathetic Nerve Actions. W. S. Lawrence, M. C. Morton and M. L. Tainter . . . . . 219
- XXIX. Distribution of Exogenous Bromine in Cats after Treatment with Tribromoethanol, Tribromoacetaldehyde and Tribromoacetic Acid. G. A. Emerson and James L. Morrison . . . . . 226
- XXX. A Toxicological Study of Succinyl Sulfathiazole. A. D. Welch, Paul A. Mattis and Albert R. Latven . . . . . 231
- XXXI. Visceral Lesions Associated with Tribromethanol Administered Rectally. A. H. Maloney . . . . . 247
- XXXII. The Action of Quinidine on the Cold Blooded Heart. A. M. Wedd, H. A. Blair and R. E. Gosselin . . . . . 251
- XXXIII. A Study of the Synthesis of Hippuric Acid in the Rat after Liver Injury from Carbon Tetrachloride. Gonzalo Montes, R. S. Teague and E. E. Nelson . . . . . 260
- XXXIV. Studies of Synthetic Curare-like Compounds. I. Action of Some Quinine and Other Quaternary Ammonium Derivatives. H. F. Chase and A. J. Lehman . . . . . 265
- XXXV. Studies on Synthetic Curare-like Compounds. II. Some Quantitative Comparisons of Quinine Ethochloride Dihydrate, Quinine Methochloride Dihydrate, Beta-Erythroidine Hydrochloride and Dihydro-beta-Erythroidine Hydrobromide. A. J. Lehman, H. F. Chase and F. F. Yonkman . . . . . 270
- XXXVI. An *In-Vivo* Method for the Evaluation of Germicidal Substances Used for Skin Disinfection. Raymond W. Sarber . . . . . 277
- XXXVII. The Effect of Muscle Extractives on the Perfused Heart. Nello Pace and R. J. Main . . . . . 283
- XXXVIII. Pharmacological and Toxicological Studies on *l-N*-Ethylephedrine Hydrochloride. T. J. Becker, M. R. Warren, D. G. Marsh, C. R. Thompson and R. S. Shelton . . . . . 289
- XXXIX. A Study of Some Beta-2, and 4, Pyridylalkylamines. William H. Hunt and Russel J. Fosbinder . . . . . 299
- XL. The Effect of Various Pharmacological Agents on the Morphogenetic Actions of Estradiol. S. Albert and H. Selye . . . . . 308
- XLI. Bronchial Antispasmodic Actions of Theophylline Derivatives, Including Effects of Continued Administration. F. P. Ludueña, M.D. . . . . 316
- XLII. The Deacetylation of Heroin and Related Compounds by Mammalian Tissues. C. I. Wright . . . . . 328

## CONTENTS

v

XLIII. The Development of Tolerance to Demerol. H. L. Andrews.....	338
XLIV. A Comparison of the Official and the Chicken Methods for the Oxytocic Bioassay of Posterior Pituitary Preparations. R. Blackwell Smith, Jr.	342
XLV. The Gastro-Intestinal Absorption of Lanatoside C. James M. Dille and George B. Whatmore.....	350
XLVI. Studies on Sulfonamide-Resistant Organisms. II. Comparative Development of Resistance to Different Sulfonamides by Pneumococci. Clara L. Sesler and L. H. Schmidt.....	356
XLVII. A Study of the Comparative Toxic Effects of Morphine on the Fetal, Newborn and Adult Rats. Annette Chesler, Giles C. LaBelle, and Harold E. Himwich.....	363
XLVIII. The Therapeutic Effects of Repeated Subcurative Doses of Mapharsen on T. Equiperdum Infections in the Rat. Ewart A. Swinyard, Arthur D. Hirschfelder and Harold N. Wright.....	367