CONTENTS

NUMBER 1, SEPTEMBER, 1948

I. The Toxicity of Some Zirconium and Thorium Salts in Rats. L. T. McClinton and Jack Schubert ................................................................. 1

II. The Potentiating Effect of Antihistaminic Drugs Upon the Sedative Action of Barbiturates. Charles A. Winter ............................................. 7

III. Studies on Hydrocarbon-Epinephrine Induced Ventricular Fibrillation. Solomon Garb and Maynard B. Chenoweth ................................. 12

IV. The Inhibition of the Cholinesterase of Rat Brain by Methadon. George S. Eadie, Frederick Bernheim and Dorothea B. Fitzgerald .............. 19

V. The Estimation of Acetanilide and Its Metabolic Products, Aniline, N-Acetyl p-Aminophenol and p-Aminophenol (Free and Total Conjugated) in Biological Fluids and Tissues. Bernard B. Brodie and Julius Axelrod ........................................ 22

VI. The Fate of Acetanilide in Man. Bernard B. Brodie and Julius Axelrod ... 29


VIII. Studies on Purified Digitalis Glycosides. VI. Thevetin, a Glycoside with Unusual Speed of Action in Man. Walter Modell, Nathaniel T. Kvit, Conrado Dayrit, Samuel J. Shane, William Zahm, Milton L. Kramer and Harry Gold .................................................. 44

IX. A Study of the Pharmacological Relationship Between Digitoxin and Histamine. A. Sjoerdsma and E. Kun ................................................. 53

X. Synergistic Effect of Chlorguanide and Sulfadiazine against Plasmodium gallinaceum in the Chick. Joseph Greenberg, Beverly L. Boyd and Edward S. Josephson ............................................. 60

XI. A Study on the Comparative Toxic Effects of Citric Acid and Its Sodium Salts. Charles M. Gruber, Jr. and William A. Halbeisen ................. 65

XII. An Ultraviolet Spectrophotometric Procedure for the Determination of Barbiturates. Leo R. Goldbaum ................................................. 68

XIII. The Effect on the Pain Threshold of N-Acetyl p-Aminophenol, a Product Derived in the Body from Acetanilide. Frederick B. Flian and Bernard B. Brodie ............................................. 76

XIV. On the Mechanism of the Convulsant Action of Strychnine; the Lack of Atropine Antagonism. W. Clarke Wescoe and Ray E. Green .......... 78

NUMBER 2, OCTOBER, 1948


XVI. Naphthoquinone Antimalarials. XIX. Antirespiratory Study of Protein Binding. Hans Heymann and Louis F. Fieser .................................. 97

XVII. Naphthoquinone Antimalarials. XX. Metabolic Degradation. Louis F. Fieser, Hans Heymann and Arnold M. Seligman ........................ 112

XVIII. Thyroxine-Like Activity of Chloro- and Bromo-thyronine Derivatives. C. P. Leblond and B. Grad ..................................................... 125

XIX. Enzymic Hydrolysis of Morphine Esters. Sidney Ellis ..................... 130

XX. Further Studies on the Antifibrillatory Action of Coronary Dilator Drugs. K. I. Melville ............................................................. 136
CONTENTS


XXIII. A Comparison of One Dose Per Day with Six Doses Per Day of Quinine in the Suppression of Lophurae Malaria in the Duck. Earl H. Dearborn

XXIV. The Influence of Lung Distension Upon the Response of the Bronchioles to Epinephrine and to Histamine. K. I. Melville and H. Caplan

XXV. The Comparative Pharmacology of p-Fluorophenethylamine and p-Fluorophenethyl-Methylamine. David F. Marsh

XXVI. Pharmacology of a New Antihistamine, -Pyrrolidine-Ethyl-Phenothiazine (Pyrrolazote). Milton J. Vander Brook, Kenneth J. Olson, Marilyn T. Richmond and Marvin H. Kuizenga

XXVII. A Preliminary Pharmacological Investigation of the Tannin Obtained from Pinus Caribaea, Morelet. Frank W. Bope, Elizabeth M. Cranston and Ole Gisvold


XXIX. The Effect of Adrenergic Blocking Agents on the Vasoconstriction Produced by Acute Oxygen Lack. David F. Marsh and Edward J. Van Liere

XXX. The Comparative Pharmacology of the Isomeric Heptylamines. David F. Marsh

XXXI. Antibiotic Lactones and Synthetic Analogs. I. Cardiotoxic Effects on the Isolated Frog Heart. Nicholas J. Giarman

XXXII. Influence of Tetraethylammonium on Responses of Isolated Intestine to Angiotonin and Other Substances. Dean A. Collins


XXXIV. Concerning the Inability of 2,3 Dithiopropanol (BAL) to Prevent or to Modify the Acute Renal Injury Induced by Uranium Nitrate. Wm. de B. MacNider, Jesse C. Trott, Jr. and Margaret D. Bruce

XXXV. The Effect of Cardiac Glycosides on the Respiration of Cardiac Muscle. Murray Finkelstein and Oscar Bodansky

XXXVI. Studies on the Laxative Activity of Triphenylmethane Derivatives. I. Relationship between Structure and Activity of Phenolphthalein Congeners. S. Loewe


XXXVIII. Biological Assay of Thyroid Activity. D. E. Hutcheon

XXXIX. Anesthesia. XXXI. A Study of Cyclic and Noncyclic Hydrocarbons on Cardiac Automaticity. John C. Krantz, Jr., C. Jelleff Carr and James F. Vitecha


CONTENTS

NUMBER 4, DECEMBER, 1948

XLII. Adrenergic Blocking Drugs. II. Antagonism of Histamine and Epinephrine with N-(2-haloalkyl)-1-naphthalene-methylamine Derivatives. Earl R. Loew and Audrey Micetich ... 339

XLIII. Adrenergic Blocking Drugs. III. Effects of Two Halogenated Ethylamines on Pressor Responses to Epinephrine, Nicotine and Adrenergic Nervous Reflexes. Clem A. Stone and Earl R. Loew ... 350

XLIV. The Fate of Procaine in Man Following Its Intravenous Administration and Methods for the Estimation of Procaine and Diethylaminoethanol. Bernard B. Brodie, Philip A. Lief and Raymond Poet ... 359

XLV. Protective Action of Combinations of Diphenhydramine and Aminophylline in Fatal Bronchospasm in Guinea Pigs Due to Mecholyl Aerosol. W. E. Hambourger, Homer B. Freese, Martin M. Winbury and Patricia M. Michiels ... 367

XLVI. Antagonism of Rutin to Capillary Effects of Sodium Bisulfite and Procaine. R. K. Richards and K. E. Kueter ... 372

XLVII. Hindlimb Reflexes of Chronic Spinal Dogs During Cycles of Addiction to Morphine and Methadon. Abraham Wikler, Senior Surgeon, U.S.P.H.S. and Karl Frank, Biophysicist ... 382

XLVIII. Bromal Hydrate and Chloral Hydrate: A Pharmacological Contrast and Its Chemical Basis. Thomas C. Butler ... 401

XLIX. The Tracheal Chain. II. The Anaphylactic Guinea Pig Trachea and Its Response to Antihistamine and Bronchodilator Drugs. Julio C. Castillo ... 412

L. Comparative Actions of Certain Compounds Like Alpha-Fagarine. Gordon A. Alles and Charles H. Ellis ... 416

LI. The Pharmacological Activity of 1-Phenyl-2-Butylamine. David P. Marsh ... 426

LII. Studies on the Toxicity, Distribution and Excretion of Emetine. Abraham I. Gimble, Clarke Davison and Paul K. Smith ... 431

LIII. Experimental Heart Failure Caused by Central Nervous System Depressants and Local Anesthetics. Albert Wollenberger and Otto Krayer ... 439

LIV. Action of Narcotics and Local Anesthetics on the Respiration of Heart Muscle. Albert Wollenberger ... 444

LV. An Investigation of the Nature and Extent of the Binding of Oxophenarsine (Mapharsen) by the Red Blood Cell of the Rabbit in Vitro. I. Adsorption on the Cell Surface. Lewis D. Fink and Harold N. Wright ... 455

LVI. An Investigation of the Nature and Extent of the Binding of Oxophenarsine (Mapharsen) by the Red Blood Cell of the Rabbit in Vitro: II. Factors Other Than Adsorption. Lewis D. Fink and Harold N. Wright ... 463