

## CONTENTS

## NUMBER 1, MAY, 1948

I. The Intravenous, Subcutaneous and Cutaneous Toxicity of <i>bis</i> ( $\beta$ -Chloroethyl) Sulfide (Mustard Gas) and of Various Derivatives. William P. Anslow, Jr., David A. Karnofsky, B. Val Jager and Homer W. Smith.....	1
II. The Effects of Intravenous Injection of Tetra-Ethyl-Ammonium Chloride On the Intra-Arterial Blood Pressure and Other Physiologic Variables in Man. George E. Brown, Jr., Earl H. Wood and Edward H. Lambert.....	10
III. Effect of Podophyllin on Transplanted Mouse Tumors. Morris Belkin.....	18
IV. Toxicological Investigations of Compounds Proposed for Use as Insect Repellents. A. Local and Systemic Effects Following Topical Skin Application. John H. Draize, Elsie Alvarez and Marie F. Whitesell. B. Acute Oral Toxicity. Geoffrey Woodard and E. Conway Hagan. C. Pathological Examination. Arthur A. Nelson.....	26
V. Locus of the Adrenergic Blocking Action of Dibenamine. Mark Nickerson and George M. Nomaguchi.....	40
VI. The Blocking Action of Magnesium Ion on Sympathetic Ganglia. John B. Stanbury.....	52
VII. Comparative Properties of Six Phenethylamines, with Observations on the Nature of Tachyphylaxis. Claude V. Winder, Mona M. Anderson and Hervey C. Parke.....	63
VIII. A Comparative Study of the Intravenous Pigeon and the Intravenous Cat Method in the Assay of Digitalis. Herbert A. Braun and Lehman M. Lusky.....	81
IX. Relative Experimental Coronary Vasodilator Potencies and Toxicities of Papaverine, Theophylline, and a Papaverine-Theophylline Molecular Association Compound. Claude V. Winder and Margaret E. Kaiser.....	86
X. The Effect of Dithiobiuret (DTB) on the Electrolyte and Water Content of Skeletal Muscle, and on Carbohydrate Metabolism. Sam Seifter, David M. Harkness, Edward Muntwyler and Joseph Seifter.....	93
XI. A Toxicologic and Pharmacologic Investigation of Cycloheptenylethyl Barbituric Acid (Medomin). William A. Halbeisen, Charles M. Gruber, Jr. and Charles M. Gruber.....	101
XII. The Curariform Activity of d-N-Methyl-Chondrodendrine and d-O-Methyl-N-Methyl-Chondrodendrine. David F. Marsh, Clark K. Sleeth and Eldon B. Tucker.....	109
XIII. Pharmacological Properties of Sympathomimetic Diamines. G. Lehmann and Lowell O. Randall.....	114

## NUMBER 2, JUNE, 1948

XIV. George Barclay Wallace, 1874-1948.....	127
XV. The Determination of 3-(Orthotoloxyl)-1,2-Propanediol (Myanesin) in Body Fluids and Tissues, and Its Disappearance from the Blood Following Intravenous Injections in the Dog. Elwood Titus, Stanley Ulick and Arthur P. Richardson.....	129
XVI. A Pyrex Apparatus for the Perfusion of the Coronary Circulation of Mammalian Hearts. Frederick F. Anderson and Bradford N. Craver.....	135
XVII. A Method for the Quantitative Estimation of Theophylline in Blood and Urine: Application to the Dog. Albert J. Plummer.....	142
XVIII. The Chronic Oral Toxicity of Chloroquine. O. Garth Fitzhugh, Arthur A. Nelson and Oma L. Holland.....	147

XIX. Effect of Vitamin A Deficiency on the Toxicity of Strychnine. John F. Suchy and Charles F. Poe.....	153
XX. Ouabagenin. K. K. Chen, Robert C. Anderson and Harold M. Worth.....	156
XXI. The effect of Adrenalectomy on Morphine Analgesia in Rats. Frances J. Friend, M.S., and S. C. Harris, Ph.D.....	161
XXII. Comparative Effectiveness of Five Antihistaminics vs. Histamine-Induced Spasm in Canine Thiry-Vella Loops. Bradford N. Craver, Anne Cameron and Frederick F. Yonkman.....	168
XXIII. The Influence of Diphenhydramine Hydrochloride and Epinephrine on Glucose Metabolism in the Rabbit. Graham Chen and Isabel G. Clarke..	175
XXIV. Some Studies on the Pharmacology of Relaxin. M. X. Zarrow and W. L. Money.....	180
XXV. Sugar Alcohols. XXVI. Pharmacodynamic Studies of Polyoxyalkylene Derivatives of Hexitol Anhydride Partial Fatty Acid Esters. John C. Krantz, Jr., C. Jelleff Carr, Joseph G. Bird and Sally Cook.....	188
XXVI. Quantitative Measurement of Uterine Responses Using the Strain Gage Dynamometer, with Notes on the Effect of Anti-Histaminic Drugs on the Rabbit Myometrium. R. M. Reynolds and Irwin H. Kaiser.....	196
XXVII. The Effect of Central Nervous System Depressants on the Emptying Time of the Human Stomach. David W. Northrup and Edward J. Van Liere...	208
XXVIII. The Toxicologic and Antihistaminic Properties of N,N'-Dimethyl-N'-Phenyl - N' - (2-Thienylmethyl) Ethylenediamine Hydrochloride (Diatrin). N. Ercoli, R. J. Schachter, W. C. Hueper and M. N. Lewis....	210
XXIX. Niaara; A Digitalis-Like Colombian Arrow Poison. K. Mezey, C. Uribe-Piedrahita, J. Pataki and J. Huertas-Lozano.....	223
XXX. Cholinesterases of Human Erythrocytes and Plasma and their Inhibition by Antimalarial Drugs. C. I. Wright and Jean C. Sabine.....	230
XXXI. The Effect of Certain Goitrogenic Drugs on the Absorption of Radioactive Iodine by the Thyroid Gland of Rats and Chicks. I. Collection of Radioiodine by Thyroids Made Goitrous Following Chronic Administration of These Agents. R. W. Rawson, D. A. McGinty, Wendell Peacock, Priscilla Merrill, Mary Wilson and Helen Lockhart.....	240
XXXII. The Effect of Certain Goitrogenic Drugs on the Absorption of Radioactive Iodine by the Thyroid Gland. II. Collection of Radioiodine by Thyroids of Rats and Chicks Following a Single Injection of These Agents. D. A. McGinty, R. W. Rawson, R. G. Fluaharty, Mary Wilson, Charlotte Riddell and Hilda Yee.....	246

## NUMBER 3, JULY, 1948

XXXIII. Reid Hunt, 1870-1948.....	259
XXXIV. Effects of Amphetamine and Cocaine on Neuromuscular Function. J. V. Luco, C. Eyzaguirre and F. Perez.....	261
XXXV. The Effect of Quantitative and Qualitative Protein Deficiency on Tolerance to Emetine. K. Guggenheim and Edith Buechler.....	273
XXXVI. Tissue Distribution of a Toxicant Following Oral Ingestion of the Gamma Isomer of Benzene Hexachloride by Rats. Edwin P. Laug.....	277
XXXVII. Pharmacologic Comparison of the Optical Isomers of Methadon. C. C. Scott, E. B. Robbins and K. K. Chen.....	282
XXXVIII. The Rodenticidal Activity of Fluoroacetphenylhydrazide ("Fanyline") and Its Oral Toxicity to Several Species. With a Note on the Toxicity of 64 Other Candidate Rodenticides. Leonard Karel.....	287
XXXIX. Some Aspects of Thiamine Toxicity. Jay A. Smith, Piero P. Foa, Harriet R. Weinstein, A. S. Ludwig, and J. Marvin Wertheim.....	294

XL. The Addiction Liability of Some Drugs of the Methadon Series. Harris Isbell and Anna J. Eisenman.....	305
XLI. Pharmacological Studies on Analgesic Piperidine Derivatives. Lowell O. Randall and G. Lehmann.....	314
XLII. Inhibition of Succinoxidase by the Vitamin P-Like Flavonoid 2',3,4-Trihydroxy Chalcone. Grant R. Bartlett.....	329
XLIII. The Comparative Pharmacology of the Cyclohexylalkylamines. David F. Marsh.....	338
XLIV. The Effects of Corn Oil and Olive Oil on the Blood Sugar and Rectal Temperature of Rabbits. E. F. Stohlman.....	346
XLV. The Effect of DDT on the Blood Sugar and of Glucose Administration on the Acute and Chronic Poisoning of DDT in Rabbits. E. F. Stohlman and R. D. Lillie.....	351
XLVI. The Toxicity and Muscular Effect of d-Tubocurarine Combined with $\beta$ -Erythroidine, Myanesin or Evipal. F. M. Berger, M.D. and R. P. Schwartz, M.D.....	362
XLVII. The Absorption, Distribution, Excretion and Fate of Para-Aminosalicylic Acid. E. Leong Way, Paul K. Smith, Donald L. Howie, Rowena Weiss and Rollan Swanson.....	368
XLVIII. Effect of Rutin on Coagulation Time of Rat Blood. M. B. Plungian, James C. Munch and J. B. Wolfe.....	383
XLIX. A Comparative Study of the Activity and Toxicity of Hexylcaine (1-Cyclohexylamino-2-propylbenzoate); a New Local Anesthetic Agent. Karl H. Beyer, Albert R. Latven, Walter A. Freyburger and Mary P. Parker... L. The Effect of Sodium Bicarbonate on the Renal Excretion of Salicylate. Florence Williams and Jack R. Leonards.....	388 401
LI. Toxicological and Pharmacological Studies on the Powdered Stem of <i>Ryania Speciosa</i> , a Plant Insecticide. Samuel Kuna and Ralph E. Heal.....	407
LII. The Effect of Various Sulfur-containing Compounds on Alphanaphthylthiourea (ANTU) Toxicity to Rats. Leonard Karel and Bertram J. Meyer.....	414
LIII. The Effect of Environmental Temperature on Alphanaphthylthiourea (ANTU) Toxicity to Rats. Bertram J. Meyer and Leonard Karel.....	420
LIV. Comparison of Pressor Action of Alicyclic Derivatives of Aliphatic Amines. Edward E. Swanson and K. K. Chen.....	423
LV. Chemotherapeutic Studies on a Series of Dithiocarbamates and Their Bismuth Derivatives. Andres Goth and Fabian J. Robinson.....	430
LVI. Adrenergic Blocking Drugs. I. Comparisons of Effectiveness in Decreasing Epinephrine Toxicity in Mice. Earl R. Loew and Audrey Micetich....	434
LVII. Studies on Nitrate Esters. I. Nitrite-producing Systems in Rabbit Tissues. Fred W. Oberst and Fred H. Snyder.....	444
LVIII. p-Aminomethylbenzenesulfonamide (Sulfamylon): Its Determination in Biological Fluids, with a Preliminary Report on the Blood Serum Levels Obtained upon Oral and Subcutaneous Administration. M. Lawrence Heideman, Jr., A. B., and Robert C. Rutledge, Jr., M.D.....	451
LIX. Dynamics of Recovery and Measure of Drug Antagonism. Inhibition of Smooth Muscle by Lysocithin and Antihistaminics. M. Rocha E. Silva and Wilson T. Beraldo.....	457
LX. The Relationship between Chemical Structure and Central Depressant Action of $\alpha$ Substituted Ethers of Glycerol. F. M. Berger.....	470
LXI. The Effects of Ether on the Myocardium of the Dog. Leslie L. Bennett and Carl W. Fisher.....	482
LXII. Index.....	487