

CONTENTS

NUMBER 1, SEPTEMBER, 1943

I. Influence of addition of Chlorine to the Side Chain on Certain Actions of Acetylcholine. James L. Morrison.....	1
II. Further Studies of the Addiction Liability of Demerol (<i>1</i> -Methyl-4-Phenyl-Piperidine-4-Carboxylic Acid Ethyl Ester Hydrochloride). C. K. Himmelsbach.....	5
III. A Method for the Determination of Demerol in Urine and Results of Its Application. Fred W. Oberst.....	10
IV. Increased Blood Specific Gravity in Anesthetized Dogs Following Pilocarpine Injections. Buford H. Burch and B. A. Westfall.....	16
V. The Reduction of Symmetrical Trinitroluene by a Succinic Dehydrogenase Preparation. Benton B. Westfall.....	23
VI. Antagonistic Effect of <i>N</i> -Allyl-Normorphine upon Morphine. Klaus Unna.....	27
VII. A Comparison of the Mechanism of Action of Arsenicals and Sulfonamides. Lawrence Peters.....	32
VIII. The Effect of Oxygen, Soybean Lecithin, Carbamyl Choline, and Fufuryl Trimethyl Ammonium Iodide on Experimental Polycythemia. John Emerson Davis.....	37
IX. Influence of Various Drugs on the Threshold for Electrical Convulsions. M. L. Tainter, E. G. Tainter, W. Sherwood Lawrence, E. N. Neuru, R. W. Lackey, F. P. Luduena, H. B. Kirtland, Jr., and R. I. Gonzalez...	42
X. The Mechanism of Aspirin Antipyresis in Monkeys. F. Guerra (Perez-Carral) and H. G. Barbour.....	55
XI. The Role of the Liver in the Metabolic Destruction of Quinine. Carl E. Anderson, W. E. Cornatzer and James C. Andrews.....	62
XII. Studies on Antimalarial Drugs. The Metabolism of Quinine in Pregnant Animals. Andrew F. Burton and F. E. Kelsey.....	70
XIII. Studies on Antimalarial Drugs. The Distribution of Quinine Oxidase in Animal Tissues. F. E. Kelsey and Frances K. Oldham.....	77
XIV. Studies on Antimalarial Drugs. The Influence of Pregnancy on the Quinone Oxidase of Rabbit Liver. Frances K. Oldham and F. E. Kelsey.	81
XV. The Relation of Molecular Configuration to the Rate of Deamination of Sympathomimetic Amines by Aminase. Karl H. Beyer.....	85

NUMBER 2, OCTOBER, 1943

XVI. Bioassay of Diuretics. Werner L. Lipschitz, Kareh Hadidian and Andrew Kerpcsar.....	97
XVII. Influence of Sodium Bisulfite on the Toxicity of Epinephrine. Richard K. Richards.....	111
XVIII. Comparative Activity of Sulfonamides against <i>Klebsiella pneumoniae</i> (Friedlander's Bacillus). Clara L. Sesler and L. H. Schmidt.....	117
XIX. Environmental Temperature and Drug Action in Mice. K. K. Chen, Robert C. Anderson, Frank A. Steldt and C. A. Mills.....	127
XX. The Action of Carthamoidine. Paul N. Harris, Robert C. Anderson and K. K. Chen.....	133
XXI. The Effect of Urinary pH on the Elimination of Quinine in Man. H. B. Haag, P. S. Larson and J. J. Schwartz.....	136

XXII. Physico-Chemical Properties of the Arsphenamines in Relation to Distribution and Retention in the Tissues. F. B. Rodman and Harold N. Wright.....	140
XXIII. Some Pharmacological Actions of Adenine-Thiomethylpentose. P. L. Ewing and F. Schlenk.....	164
XXIV. Studies on Shock Induced by Hemorrhage. IV. The Desphosphorylation of Cocarboxylase in Tissues during Shock and Anoxia. Margaret E. Greig and Wm. M. Govier.....	169
XXV. The Effect of Environmental Temperature on the Toxicity of 2,4-Dinitrophenol in Mice. Geraldine J. Fuhrman, Frank W. Weymouth and John Field 2d.....	176
XXVI. Anesthesia. IX. The Anesthetic Action of Isopropenyl Vinyl Ether. John C. Krantz, Jr., C. Jelleff Carr, Amos G. Horney and William E. Evans, Jr.....	179

NUMBER 3, NOVEMBER, 1943

XXVII. Pharmacological Studies on <i>dl</i> - β -phenyl- <i>n</i> -propylmethyl Amine, a Volatile Amine. M. R. Warren, D. G. Marsh, C. R. Thompson, R. S. Shelton and T. J. Becker.....	187
XXVIII. Effect of Oral Administration of Succinyl Sulfapyrazine on Bacterial (Coliform) Flora of the Intestine of Normal Mice. Fritz T. Callomon and George W. Raiziss.....	200
XXIX. The Peripheral Circulatory Action of <i>Veratrum viride</i> . J. Robert Willson and Ralph G. Smith.....	208
XXX. Studies on Veratrum Alkaloids. IV. The Sites of the Heart Rate Lowering Action of Ceratridine. Otto Krayner, Earl H. Wood and Gonzalo Montes.....	215
XXXI. The Skin Absorption of Triorthocresyl Phosphate as Shown by Radioactive Phosphorus. Harold C. Hodge and James H. Sterner.....	225
XXXII. Experiments on the Pharmacology of Respiration in the Rabbit. V. E. Henderson and C. L. Yi.....	235
XXXIII. Studies on Shock Induced by Hemorrhage. V. The Effect of Cellular Damage on the <i>in vitro</i> Hydrolysis and Synthesis of Cocarboxylase by Liver Tissue. William M. Govier and Margaret E. Greig.....	240
XXXIV. Studies on Shock Induced by Hemorrhage. VI. Cocarboxylase Phosphatase in Dog Serum. Margaret E. Greig and William M. Govier.....	246
XXXV. The Effect on the Fetus of Pentobarbital Sodium and Pentothal Sodium. Robert Dreisbach and Franklin F. Snyder.....	250
XXXVI. The Effect of Hemorrhage on Anesthetic Dosage. D. R. Wood and N. T. Jaco.....	259
XXXVII. Studies on the Fate of Heroin. Fred W. Oberst.....	266

NUMBER 4, DECEMBER, 1943

XXXVIII. Effect of Repeated Applications of Sublethal Concentrations of Germicide on Living Embryonic Tissue Fragments. A. J. Salle.....	271
XXXIX. The Metabolism of Paraldehyde. I. The Determination of Paraldehyde in Tissues, Blood and Expired Air. Philip Hitchcock and Erwin E. Nelson.....	281
XL. The Metabolism of Paraldehyde. II. Philip Hitchcock and Erwin E. Nelson.....	286
XLI. Studies on Physostigmine and Related Substances. II. The Destruction of Physostigmine in Buffered Solutions and in Serum. Sydney Ellis, Frank L. Plachte and Oliver H. Straus.....	295

XLII. Studies on Physostigmine and Related Substances. III. Breakdown Products of Physostigmine; Their Inhibitory Effect on Cholinesterase and Their Pharmacological Action. Sydney Ellis, Otto Krayer and Frank L. Plachte.....	309
XLIII. Blood Levels of Sulfadiazine, Sulfamethazine and Sulfamerazine in Relation to Binding in the Plasma. D. Rourke Gilligan.....	320
XLIV. Comparison of the Pressor Action of Some Optical Isomers of Sympathomimetic Amines. E. E. Swanson, C. C. Scott, H. M. Lee and K. K. Chen.....	329
XLV. The Pharmacological Action of <i>N</i> -Methylcytisine. C. C. Scott and K. K. Chen.....	334
XLVI. The Fate of D.B.E. (α di-(<i>p</i> -ethoxyphenyl) β -phenyl bromo-ethylene) in the body. J. M. Robson and M. Y. Ansari.....	340
XLVII. Ether Anesthesia and the Output of Fluids from the Respiratory Tract. Eldon M. Boyd and Jean S. Munro.....	346
XLVIII. Studies on Sulfapyrazine. Harry J. Robinson, Henry Siegel and Otto E. Graessle.....	354
XLIX. Studies on Physostigmine and Related Substances. IV. Chemical Studies on Physostigmine Breakdown Products and Related Epinephrine Derivatives. Sydney Ellis.....	364
L. The Relation between Chemical Structure and Physiological Disposition of a Series of Substances Allied to Sulfanilamide. Saul H. Fisher, Leonard Troast, Alice Waterhouse and James A. Shannon.....	373
LI. Index.....	393