

CONTENTS

NUMBER 1, JANUARY, 1943

I. On the Mode of Action of the Sulfonamides. III. Purines, Amino Acids, Peptones and Pancreas as Antagonists and Potentiators of Sulfonamide in <i>E. coli</i> . Henry I. Kohn and Jerome S. Harris.....	1
II. Studies on Modification of the Morphine Abstinence Syndrome by Drugs. C. K. Himmelsbach and Howard L. Andrews.....	17
III. Nutritional Degeneration of the Optic Nerve in Rats: Its Relation to Tryparsamide Amblyopia. Walsh McDermott, Bruce Webster, Richard Baker, James Lockhart and Ralph Tompsett.....	24
IV. Studies on Shock Induced by Hemorrhage. III. The Correlation of Plasma Thiamin Content with Resistance to Shock in Dogs. William M. Govier.....	40
V. The Effect of Chloroform and Ether on the Activity of Choline Esterase. Clara Torda.....	50
VI. Comparative Physiological Actions of Some β -(Imidazolyl-4-) Alkylamines. Gordon A. Alles, Bennett B. Wisegaiver and Mildred A. Shull.....	54
VII. Toxicity of Tannic Acid. Harry J. Robinson and Otto E. Graessle.....	63
VIII. Toxicity and Efficacy of Penicillin. Harry J. Robinson.....	70
IX. The Effect of Drugs on the Pulmonary and Systemic Arterial Pressures in the Trained Unanesthetized Dog. Renin, Angiotonin, Adrenalin, Pitressin, Paredrine, Digitalis, Acetylcholine, Papaverine, Histamine, Amyl Nitrite and Aminophyllin. L. Friedberg, L. N. Katz and F. S. Steenitz.....	80

NUMBER 2, FEBRUARY, 1943

X. The Pharmacology of N-Substituted Carbamino-Cholines. M. B. Bender, M. A. Spirtes and D. B. Sprinson.....	107
XI. Pharmacology and Chemistry of Substances with Cardiac Activity. II. Effect of l-Ascorbic Acid and Some Related Compounds and of Hydrogen Peroxide on the Isolated Heart of a Frog. O. Kraye, R. R. Linstead and D. Todd.....	113
XII. The Effect of Cocaine, Ergotamine and Yohimbine on the Activity of Phenol Sulfur Esterase. Clara Torda.....	123
XIII. Sulphamethazine (<i>2-4'</i> -Aminobenzenesulphonylamino-4: <i>6</i> -Dimethylpyrimidine): A New Heterocyclic Derivative of Sulphanilamide. F. L. Rose and A. R. Martin.....	127
XIV. Noble-Collip Shock: Therapeutic Effects with Autonomic Depressants; Motion Factors. Paul A. Zahl, S. H. Hutner and F. S. Cooper.....	143
XV. The Effect of Sodium Citrate Administration on Excretion of Lead in Urine and Feces. T. V. Letonoff and Seymour S. Kety.....	151
XVI. Formation of Methemoglobin. I. Species Differences with Acetanilide and Acetophenetidine. David Lester.....	154
XVII. Formation of Methemoglobin. II. Repeated Administration of Acetanilide and Acetophenetidine. David Lester.....	160
XVIII. Studies on Sulfonamide-Resistant Organisms. III. On the Origin of Sulfonamide-Resistant Pneumococci. L. H. Schmidt and Clara L. Sesler.....	165
XIX. Degradation Products of Dilantin. F. L. Kozelka and C. H. Hine.....	175
XX. Metabolism of Hydantoin Derivatives Closely Related to Dilantin. C. H. Hine and F. L. Kozelka.....	180

XXI. The Analgesic Properties of Certain Drugs and Drug Combinations. Donn L. Smith, Marie C. D'Amour and Fred E. D'Amour.....	184
XXII. Toxicity of Acetoin. Jean A. Greenberg.....	194
XXIII. Pharmacological Properties of Simple Compounds of Histamine with Amino Acids. M. Rocha e Silva.....	198

NUMBER 3, MARCH, 1943

XXIV. Sulfapyridine Bacteriostasis of <i>Lactobacillus arabinosus</i> and Its Counteraction. L. J. Teply, A. E. Axelrod and C. A. Elvehjem.....	207
XXV. A Contribution to the Pharmacology of Phenazine and Certain of Its Derivatives. C. Jelleff Carr, Donald L. Vivian and John C. Krantz, Jr.....	215
XXVI. Studies on Veratum Alkaloids. II. The action of veratiedine and cevine upon the isolated mammalian heart. Gordon K. Moe and Otto Krayer..	220
XXVII. Action of Diphenyloxazolidinedione on Brain Respiration at Varied Temperature Levels. Frederick A. Fuhrman and John Field 2d.....	229
XXVIII. Toxicity of Ratenone and Derris Extract Administered Orally to Birds. L. K. Cutkomp.....	238
XXIX. The Relation of Molecular Configuration to Inactivation of Sympathomimetic Amines in the Presence of Phenol Oxidase. Karl H. Beyer....	247
XXX. The Effects of Atropine, Prostigmin, Adrenaline and Calcium on the Movements of the Fasting Human Stomach. W. Ferguson Anderson and Noah Morris.....	258
XXXI. Relation of the Extrinsic Nerves of the Intestine of the Inhibitory Action of Atropine and Scopolamine on Intestinal Motility. W. B. Youmans, A. I. Karstens and K. W. Aumann.....	266
XXXII. Effect of Cocaine on the Elimination of Phenol. Clara Torda.....	274
XXXIII. Sulfapyrazine: Its Activity Against Experimental Infection with Beta Hemolytic Streptococci as Compared with that of Sulfadiazine, Sulfathiazole, Sulfapyridine and Sulfanilamide. L. H. Schmidt and Clara L. Sesler.....	277
XXXIV. The Effect of Narcotics on the Balance between Central and Chemoreceptor Control of Respiration. Robert D. Dripps and Paul R. Dumke.....	290
XXXV. Studies Concerning the Luteoid Action of Steroid Hormones. Hans Selye and Georges Masson.....	301

NUMBER 4, APRIL, 1943

XXXVI. A Splenic Contracting Substance in Orange Seeds. Francisco T. Macias, Ralph G. Smith and Foster N. Martin, Jr.....	311
XXXVII. Actions of a Series of Diphenyl-Ethylamines. M. L. Tainter, F. P. Luduena, R. W. Lackey, and E. N. Neuru.....	317
XXXVIII. The Stimulant Power of Secondary and Tertiary Phenyl-Isopropyl-Amines. Armando N. Novelli and M. L. Tainter.....	324
XXXIX. The Action of Adrenaline upon the Atropine-Acetyl Choline Reversal Phenomenon. R. L. Stehle and K. I. Melville.....	332
XL. The Action of Benzol on Certain Central Nervous Regulating Mechanisms. Francisco Guerra (Perez-Carral).....	336
XLI. Studies on the Fate of Nicotine in the Body. III. On the Pharmacology of some Methylated and Demethylated Derivatives of Nicotine. P. S. Larson and H. B. Haag.....	343
XLII. Effect of Chloroform and Ether on the Sensitivity of Muscle to Acetylcholine. Clara Torda.....	350
XLIII. Sulfamerizine (2-sulfanilamido-4-methylpyrimidine). I. A Comparison of Sulfamerizine with Sulfadiazine on the Basis of Absorption, Excretion and Toxicity. A. D. Welch, Paul A. Mattis, Albert R. Latven, Wilbur M. Benson and Ethel H. Shiels.....	357

CONTENTS

v

XLIV. The Relationship between Chemical Structure and Inhibitory Action of Barbituric Acid Derivatives on Rat Brain Respiration *in Vitro*. Frederick A. Fuhrman and John Field, 2d..... 392

XLV. Synthetic Glycosides of Digitoxigenin, Digoxigenin, and Periplogenin. K. K. Chen, Robert C. Elderfield, Frederick C. Uhle and Josef Fried.... 401

XLVI. Index..... 407