

CONTENTS

NUMBER 1, SEPTEMBER, 1951

I. Delayed Arrest of Rat Brain Slice Respiration Caused by Pentobarbital during the Metabolism of Glucose. J. L. Karlsson, V. C. Sutherland and H. W. Elliott.....	1
II. A Metabolite of Pamaquine from Chickens. Edward S. Josephson, Joseph Greenberg, D. Jane Taylor and H. L. Bami.....	7
III. The Adrenergic Blocking Action of Some Dibenzazepine Derivatives. Lowell O. Randall and Thomas H. Smith.....	10
IV. Effects of Narcotics and Convulsants on Tissue Glycolysis and Respiration. J. L. Webb and K. A. C. Elliott.....	24
V. Effects of Convulsant and Narcotic Drugs on Acetylcholine Synthesis. Hugh McLennan and K. A. C. Elliott.....	35
VI. Nicotinolytic Drugs. I. Drugs Inhibiting Nicotine-Induced Tremors. Raymond L. Cahen and Thomas E. Lynes.....	44
VII. The Anticonvulsant activity of α -Phenyl Succinimides. Graham Chen, Ruth Portman, Charles R. Ensor and Andrew C. Bratton, Jr.....	54
VIII. The Significance of the Carbonyl Group and Ether Oxygen in the Reaction of Acetylcholine with Receptor Substance. John H. Welsh and Rae Taub.....	62
IX. Relative Hypotensive Activity of Certain Veratrum Alkaloids. George L. Maison, Eleanor Gotz and J. W. Stutzman.....	74
X. 3-Hydroxy-2-Phenyleinchoninic Acid (HPC): Its Absorption, Excretion and Its Effects on Certain Renal Functions and Enzyme Systems. Karl H. Beyer, Horace F. Russo, Grace S. Schuchardt, Jacqueline A. Fishman, Virgil D. Wiebelhaus and Robert L. Kemp.....	79
XI. The Effect of Cortisone, Desoxycorticosterone, and Adrenocorticotrophic Hormone upon the Responses of Animals to Analgesic Drugs. Charles A. Winter and Lars Flataker.....	93

NUMBER 2, OCTOBER, 1951

XII. The Effect of Certain Drugs on Nitrogen Assimilation in <i>Pseudomonas Aeruginosa</i> . Frederick Bernheim and William E. DeTurk.....	107
XIII. Effect of Certain Antihistaminics on Epinephrine-Induced Hyperglycemia and Lacticacidemia. Eugene L. Komrad and Earl R. Loew.....	115
XIV. Metabolic Action of the Cardiac Glycosides. II. Effect of Ouabain and Digoxin on the Energy-Rich Phosphate Content of the Heart. Albert Wollenberger.....	123
XV. The Mode of Action of Sodium Diphenylhydantoinate (Dilantin) in Epilepsy. Robert B. Aird and Louis Strait.....	136
XVI. Toxicology and Addiction Liability of Meperidine (Demerol) in Experimental Animals. O. W. Barlow and John R. Lewis.....	147
XVII. The Elimination of Enzymatic Diffusion Artifacts in the Histochemical Localization of Cholinesterases and a Survey of their Cellular Distributions. George B. Koelle.....	153
XVIII. Veratramine. David F. Marsh, D. A. Herring and A. Howard.....	172
XIX. The Comparative Pharmacology of the Hydroxy and Methyl Derivatives of 6-Methyl-2-Heptylamine. David F. Marsh and D. A. Herring.....	178
XX. Effect of dl-Amphetamine Sulfate and its Isomers on Intestinal Motility. Edward J. Van Liere, J. Clifford Stickney, David W. Northup and Ross O. Bell.....	187

- XXI. The Effect of the Intravenous Administration of Pitressin on Renal Function in Man. Morton H. Maxwell and Ernest S. Breed 190
- XXII. The Pharmacological Activity of 4-Ketoamyltrimethylammonium Iodide and 3-Ketobutyltrimethylammonium Iodide. James E. Edwards and David F. Marsh 196
- XXIII. The Relationship of the Human Plasma Proteins in the Action and Transport of Penicillin. Bernard Halpern, Ralph E. Dolkart, James B. Lesh, Russel L. Kutz, Frederick L. Dey and Bernard Wolnak 202
- XXIV. Excretion and Tissue Distribution Studies on Radioactive Nicotine. Aaron Ganz, F. E. Kelsey and E. M. K. Geiling 209

NUMBER 3, NOVEMBER, 1951

- XXV. Toxicity Studies on Amberlite XE-96, A Carboxylic Type Cation Exchange Resin. Thomas L. Flanagan, Mary F. Sax and Arthur E. Heming 215
- XXVI. Further Studies on the (RC) Analogue of Acetylcholine and Some Additional Derivatives. F. W. Schueler and H. H. Keasling 222
- XXVII. Delineation of the Skin-Twitch Response in Dogs and the Effects thereon of Morphine, Thiopental and Mephenesin. Raymond W. Houde and Abraham Wikler 236
- XXVIII. Comparative Actions of Analgesic, Hypnotic and Paralytic Agents on Hindlimb Reflexes in Chronic Spinal Dogs. Raymond W. Houde, Abraham Wikler and Samuel Irwin 243
- XXIX. Studies on Veratrum Alkaloids. XV. The Quinine-Like Effect of Veratramine upon the Single Twitch and upon the "Veratrine Response" of the Sartorius Muscle of the Frog. Otto Kraymer and H. W. George 249
- XXX. The Atropine-Fast Nicotine Stimulation of the Rabbit's Intestine and of the Muscularis Mucosae of the Dog's Intestine. Sydney Ellis and Holger Rasmussen 259
- XXXI. Some Actions of Procaine and Related Compounds on the Dog's Auricle and A-V Connections. Barbara B. Brown and George H. Acheson 269
- XXXII. The Effects of a Synthetic Curare-Like Compound, the Tri-Iodo Salt of Tris (Triethylaminoethoxy) 1,2,3 Benzene (Flaxedil), on the Anesthetized Surgical Patient. Benjamin E. Marbury, Joseph F. Artusio, Jr., W. Clarke Wescoe and Walter F. Riker, Jr. 280
- XXXIII. Antispasmodic and Local Anesthetic Activity of Dimethylaminoethyl Substituted Compounds. John F. Reinhard, Eugene T. Kimura and John V. Seudi 288
- XXXIV. Some Pharmacological Actions of Polypropylene Glycols of Average Molecular Weight 400, 750, 1200 and 2000. F. E. Shideman and Leonard Procita 293
- XXXV. The Topical Anesthetic Activity of an Isoquinoline Compound. Edwin J. Fellows and Edward Macko 306
- XXXVI. Day-to-Day Variations in the Responses of the Heart Rate to Epinephrine and to Arterenol in Normal Atropinized Bitches. Mary F. Lockett 310
- XXXVII. The Comparative Pharmacology of the Isomeric Nitrogen Methyl Substituted Heptylamines. David F. Marsh, A. Howard and D. A. Herring .. 325
- XXXVIII. Pharmacology of 1,1-Dimethyl-4-Piperazinium Iodide, A Ganglion Stimulating Agent. Graham Chen, Ruth Portman and Agnes Wickel 330

NUMBER 4, DECEMBER, 1951

- XXXIX. Abstracts of Papers—Omaha Meeting 337
- XL. Some Pharmacodynamic Effects of 1-Hydrazinophthalazine (C-5968) with Particular Reference to Renal Function and Cardiovascular Response. John H. Moyer, Carroll A. Handley and Russell A. Huggins 368

XLI. Intermediary Metabolism of Certain Polyoxyethylene Derivatives in Man. I. Recovery of the Polyoxyethylene Moiety from Urine and Feces following Ingestion of Polyoxyethylene (20) Sorbitan Monooleate and of Polyoxyethylene (40) Mono-Stearate. Perry J. Culver, C. S. Wilcox, Chester M. Jones and R. S. Rose, Jr.	377
XLII. The Analysis of the Mode of Action of Curare on Neuromuscular Transmission; the Effect of Temperature Changes. P. E. B. Holmes, D. J. Jenden and D. B. Taylor	382
XLIII. The Effect of Ascorbic Acid on the Urinary Excretion of Citrovorum Factor Derived from Folic Acid. A. D. Welch, C. A. Nichol, R. M. Anker and J. W. Boehne, III	403
XLIV. Studies on Veratrum Alkaloids. XVI. The Action of Epinephrine and of Veratramine on the Functional Refractory Period of the Auriculo-Ventricular Transmission in the Heart-Lung Preparation of the Dog. Otto Kraye, J. J. Mandoki and Carlos Mendez	412
XLV. Comparison of Forty-Two Cardiac Glycosides and Aglycones. K. K. Chen, Francis G. Henderson and Robert C. Anderson	420
XLVI. Bioassay of Diuretic Agents in Patients with Congestive Failure. Theodore Greiner, Harry Gold, C. I. Bliss, Joseph Gluck, Raymond Marsh, Sydney B. Mathes, Walter Modell, Harold Otto, Nathaniel T. Kwit and Leon Warshaw	431
XLVII. The Mechanism of the Vasomotor Action of Quinidine. Go Lu	441
XLVIII. The Effect of BAL on the Excretion and Tissue Distribution of Polonium in Rats. John B. Hursh	450
XLIX. Modification of Barbiturate Anesthesia by Glucose, Intermediary Metabolites and Certain Other Substances. Paul D. Lamson, Margaret E. Greig and Charlie Joe Hobdy	460
L. The Effect of Veratrum Derivatives on the Isolated Intestine of the Rabbit and on the Intact Intestine of the Trained Unanesthetized Dog. James T. Gourzis and Robert O. Bauer	471
LI. The Influence of the Dosage Regimen on the Therapeutic Effectiveness of Penicillin G in Experimental Lobar Pneumonia. L. H. Schmidt and Alice Walley	479
LII. Index	489