

## CONTENTS

NUMBER 1, MAY, 1939

I. The Scientific Proceedings of the American Society for Pharmacology and Experimental Therapeutics, Incorporated.....	1
II. Factors Influencing the Duration of Local Anaesthesia. H. K. Sinha.....	42
III. The Local Anaesthetic Action of Certain Pyrazoline Compounds. H. K. Sinha.....	54
IV. Studies on the Denervated Kidney. V. The Effects of Unilateral Denervation in Acute Experiments on the Uricosuric Effect of Cinchophen. G. P. Grabfield and D. Swanson.....	60
V. Vasodilating Action of Prostigmin. Samuel Perlow, M. D.....	66
VI. The Influence of Phenol Red and Creatinine on the Renal Blood Flow. J. F. Herrick and Frank C. Mann.....	73
VII. The Relative Hypnotic Potencies and Lethal Values of the Eight Amylurea Position Isomers and of the Corresponding 1-amyl-5,5-diethylbarbituric Acids. Axel M. Hjort, Edwin J. De Beer, and David W. Fassett.....	79
VIII. The Effect of Magnesium on the Response of the Uterus to Posterior Pituitary Hormones. A. M. Fraser.....	85
IX. Effects of Repeated Anesthetic Doses of Barbiturates. 1. Nembutal. R. Hafkesbring, E. Greisheimer and H. Magalhaes.....	95
X. Products of Ultra-Violet Irradiation of Sulfanilamide. Charles L. Fox, Jr., James E. Cline and Reuben Ottenberg.....	99
XI. Cardiac Response to Posterior Pituitary Extract as Affected by Sodium Phenobarbital. K. I. Melville.....	107
XII. The Treatment of Gaseous Hydrocyanic Acid Poisoning by Sodium Thiosulfate and Sodium Nitrite Combination. James N. Etteldorf.....	125

NUMBER 2, JUNE, 1939

XIII. Quinine: Effects on Normal and Denervated Skeletal Muscle and on the Acetylcholine and Physostigmine Actions on Skeletal Muscle. Y. T. Oester and Clarence A. Maaske.....	133
XIV. Comparative Pressor Efficiency of Sympathomimetic Amines in the Normal State and in Decerebrate Shock. Cathrine A. Crismon and M. L. Tainter.....	146
XV. Autonomic Drugs and the Biliary System. II. Changes in Liver Secretion and Their Relation to Alterations in Respiration, Arterial Pressure and Portal Pressure Produced by Acetyl- $\beta$ -Methyl Choline Chloride (Mecholyl), Adrenalin and Some Related Compounds. James Flexner and Irving S. Wright.....	171

XVI. Studies of Morphine, Codeine and Their Derivatives. XIV. The Variation with Age in the Toxic Effects of Morphine, Codeine, and Some of Their Derivatives. Nathan B. Eddy.....	182
XVII. The Effect of Potassium Chloride on the Normal and Denervated Iris. L. D. Seager.....	202
XVIII. Studies of Cyclopropane. VII. An Analysis of the Factors Controlling the Heart Rate in Dogs Anesthetized with Cyclopropane or Ether After Premedication with Morphine. Benjamin H. Robbins, O. Garth Fitzhugh and James H. Baxter, Jr.....	206
XIX. The Action of Morphine in Slowing the Pulse. Benjamin H. Robbins, O. Garth Fitzhugh and James H. Baxter, Jr.....	216
XX. Blood Studies Under Anesthesia. I. Ether Administered to the Dog by Open Drop and in a Closed System. Marion Fay, Marie Andersch and Marjorie B. Kenyon.....	224
XXI. Blood Studies Under Anesthesia. II. Cyclopropane and Ethyl Ether. Marion Fay, Marie Andersch and Marjorie B. Kenyon.....	234
XXII. An Analysis of the Relationships Between Environmental Changes and the Duration of Anesthesia in Albino Mice. Edwin J. De Beer, Axel M. Hjort and David W. Fassett.....	241

## NUMBER 3, JULY, 1939

XXIII. The Smooth Muscle Actions of Epinephrine Substitutes. VII. Responses of Denervated Smooth Muscles of Iris and Intestine to Epinephrine, Ephedrine, Amphetamine (Benzedrine) and Cocaine. Miles E. Drake, R. John F. Renshaw, Fred S. Modern and C. H. Thienes.....	251
XXIV. A Comparative Study of the Stimulant Analeptics Picrotoxin, Metrazol and Coramine. H. W. Werner and A. L. Tatum....	260
XXV. An Experimental Comparison of Certain "Skin-Sterilizing" Agents. Allan D. Bass.....	279
XXVI. The Effects of Ingested Lead on the Organism. II. Studies on the Dog. M. K. Horwitt and George R. Cowgill.....	289
XXVII. Studies on the Excretion of Sulfanilamide by the Digestive Glands. Haddon M. Carryer and A. C. Ivy.....	302
XXVIII. Development of Tolerance to Organic Arsenicals in Laboratory Animals. M. L. Kuhs, B. J. Longley and A. L. Tatum.....	312
XXIX. The Effect of Benzedrine Sulfate (Beta-Phenylisopropylamine) on Metabolism and the Cardiovascular System in Man. Karl H. Beyer.....	318
XXX. The Effect of Certain Barbiturates upon the Oxygen Uptake and Anaerobic Reduction of Methylene Blue by Rat Liver and Brain. Carla M. Zorn, Edward Muntwyler and O. W. Barlow.....	326
XXXI. The Action of Certain Drugs on Respiratory Reflexes. V. E. Henderson and H. V. Rice.....	336

XXXII. The Action of Procaine and of Cocaine on Mammalian Skeletal Muscle. D. F. MacGregor.....	350
XXXIII. Pharmacology of Metal Alkyls. II. Trimethylstibine. Joseph Seifter.....	366

## NUMBER 4, AUGUST, 1939

XXXIV. The Response of the Capon's Comb to Androsterone. D. Roy McCullagh and W. Kenneth Cuyler.....	379
XXXV. Effects of Various Agents on the Metabolic Rate in Experimental Hyperthyroidism. Windsor C. Cutting and G. Bernard Robson.....	389
XXXVI. The Relation of Cocaine and of Procaine to the Sympathetic System. D. F. MacGregor.....	393
XXXVII. Experiments on the Potentiation of Procaine Spinal Anesthesia in the Rabbit. Raymond W. Cunningham and Raymond N. Bieter.....	410
XXXVIII. The Role of Molecular Oxygen in the Antispirochetal Activity of Arsenic and Bismuth Compounds in Vitro. Harry Eagle..	423
XXXIX. The Effect of Sulfhydryl Compounds on the Antispirochetal Action of Arsenic, Bismuth, and Mercury Compounds in Vitro. Harry Eagle.....	436
XL. The Anaesthetic Properties of Allene (Propadiene). J. K. W. Ferguson.....	449
XLI. A Comparison of the Actions of Prostigmin and of Guanidine on the Activity of Choline Esterase in Blood Serum. A. S. Minot.....	453
XLII. The Action of Aminopyrin and Antipyrin on the Oxidation of Phospholipid by Various Tissues. Frederick Bernheim.....	459
XLIII. The Action of Syntropan on the Gastrointestinal Tract. Byron B. Clark, E. B. S. Shires, Jr., E. H. Campbell, and C. Stuart Welch.....	464
XLIV. Studies in the Absorption, Distribution and Elimination of Alcohol. IV. The Elimination of Methyl Alcohol. Howard W. Haggard and Leon A. Greenberg.....	479
XLV. Index.....	497