CONTENTS

NUMBER 1, AUGUST, 1918

I. On the Non-influence of Rise in Body Temperature Induced by Drugs upon the Protein Quotient and the Enumeration of White Corpuscles. By Florence McCoy Hill .......................... 1

II. The Detoxifying Action of Sodium Salt on Potassium Salt in the Guinea Pig. By Samuel Amberg and Henry F. Helmholz ............... 19

III. The Acridity of Some Plants Due to a Mechanical Action. By E. D. Brown and D. D. Anderson ........................................ 37

IV. I. Tonus Waves from the Sino-auricular Muscle Preparation of the Terrapin as Affected by Adrenalin. By Charles M. Gruber and Casper Markel ........................................ 43

V. II. Tonus Waves in the Terrapin Auricles as Affected by Pilocarpine, Atropine and Adrenalin. By Charles M. Gruber and Casper Markel .. 53

NUMBER 2, SEPTEMBER, 1918

VI. The Primary Depression and Secondary Rise in Blood Pressure Caused by Epinephrine. By Hugh McGuigan and Emry G. Hyatt .............. 59

VII. The Effects of Various Agents on Superficial Hemorrhage and the Efficiency of Local Hemostatics. By Paul J. Hanzlik .................... 71

VIII. The Effects of Various Systemic Agents on Superficial Hemorrhage. By Paul J. Hanzlik ........................................ 119

NUMBER 3, OCTOBER, 1918

IX. Anthelmintics: Their Efficiency as Tested on Earthworms. By Torald Sollmann ...................................................... 129

X. XVI. Differences in the Action of Drugs on Different Parts of the Bowel. By Walter C. Alvarez .............................................. 171

XI. The Liberation of the Internal Secretion of the Thyroid Gland into the Blood. By J. M. Rogoff ........................................... 193

XII. Note on the Preparation of a Soluble Concentrated Product of the Thyroid Gland. By J. M. Rogoff .................................... 207

NUMBER 4, NOVEMBER, 1918

XIII. The Application of a Concentrated Solution of Magnesium Sulphate to Scalds and Burns. By S. J. Meltzer ............................ 211

XIV. A Transparent Celluloid Renal Onometer or Plethysmograph. By E. W. Schwartz .......................... 215

iii
CONTENTS

XV. An Experimental Investigation of the Cause of Early Death from Arsphenamine, and of Certain Other Features of the Pharmacological Action of the Substance. By D. E. Jackson and M. I. Smith 221

XVI. The Mode of Action of Certain Stimulants in Increasing and of Certain Depressants in Decreasing Oxidation. By W. E. Burge 243

XVII. Adenine Mononucleotide. By Walter Jones and R. P. Kennedy 253

NUMBER 5, DECEMBER, 1918

XVIII. On the Pharmacology of the Ureter. VI. Action of Some Optic Isomers. By David I. Macht 255


NUMBER 6, JANUARY, 1919

XXI. Dichlorethylsulphid (Mustard Gas). I. The Influence of Solvents, Adsorbents and Chemical Antidotes on the Severity of the Human Skin Lesions. By Torald Sollmann 303

XXII. Dichlorethylsulphid (Mustard Gas). II. The Question of Induced Hypersusceptibility of the Skin 319

XXIII. The Effect of Cocaine Hydrochloride on the CO2 Production of the Mixed Nerve Fiber. By Shuichi Niwa 323

NUMBER 7, FEBRUARY, 1919


XXV. On the Pharmacological Action of Allocain S. (A New Local Anesthetic.) By Seiko Kubota 361

XXVI. Effect of Atropin on Ether Hyperglycemia. By Ellison L. Ross 377

NUMBER 8, MARCH, 1919

XXVII. An Apparatus for the Administration of Gases and Vapors to Animals. By E. K. Marshall, Jr., and A. C. Kolls 385


ILLUSTRATIONS

Adrenalin chloride solution, 1: 154,000 (Fig. 1)................................. 46
— chloride 1: 150,000 at the point indicated by the arrow (Fig. 2)........ 47
— chloride 1: 154,000 (Fig. 3).............................................. 48
Epinephrin 1: 80,000,000 dilution (Fig. 4).................................. 49
Adrenalin chloride 1: 174,000,000 dilution (Fig. 5).......................... 49
Beaker contained 80 cc. of Ringer’s solution (Fig. 1)...................... 54
— contained 85 cc. of Ringer’s solution (Fig. 2)............................ 55
— contained 80 cc. of Ringer’s solution (Fig. 3)............................ 56
Action of adrenalin before and after ligation of the carotids and section
of the vags (Fig. 1).................................................................. 61
Effect of adrenalin after nicotine, in large doses (Fig. 2)..................... 64
Action of epinephrine before and after section of vags (Fig. 3).......... 65
Effect of extra-dural pressure (Fig. 4)......................................... 66
— of increasing the pressure of cerebrospinal fluid in the fourth ventricle
(Fig. 5).................................................................................. 67
Comparison of the hemoglobin and urea-nitrogen content of blood and the
effects of different local agents, during the course of hemorrhage from
the dog’s foot-pad (Fig. 1).................................................... 76
Local effect of epinephrin in different concentrations on the course of hem-
orrhage from the dog’s foot-pad (Fig. 2)..................................... 92
Effects of various agents systemically (by intravenous administration)
on blood pressure, and hemorrhage from the dog’s foot-pad (Fig. 1).... 124
Mixed depression and stimulation (Fig. 1)..................................... 173
— depression and stimulation (Fig. 2)....................................... 174
— depression and stimulation (Fig. 3)....................................... 175
Differences in the action of lead acetate on different parts of the bowel
(Fig. 4).................................................................................. 177
Dissimilar effects in small intestine and colon (Fig. 5)....................... 185
Depression most pronounced in the jejunum (Fig. 6)......................... 186
Bloods of dog 1 (series I) (Fig. 1)............................................. 199
— of dog 2 (series I) (Fig. 2)................................................. 200
— of dog 3 (series I) (Fig. 3)................................................... 201
— of dog 3 (series II) (Fig. 4)................................................... 202
Thyroid lobes of dogs 1, 2 and 3 (series II) (Fig. 5).......................... 203
Controls (series I and II) (Fig. 6)............................................. 204
Photomicrograph of sections of thyroid of dogs 1, 2 and 3 (× 33) (Fig. 7).... 205
Product “A” (Kendall) (left); soluble product (Rogoff) (right) (Fig. 1).... 208
(Fig. 1).................................................................................. 212
(Fig. 2).................................................................................. 213
View of the two shells (Fig. 1)................................................ 217
Cardiometer and blood pressure tracings from a dog (Fig. 1).............. 224
vi

ILLUSTRATIONS

Tracing showing the kidney volume, myocardio gram and right carotid blood pressure in a dog of 6.1 kilos injected with 25 cc. of 2 per cent arsphenamine in the form of the monosodium salt (Fig. 2) 225
— showing from above down the respiration, spleen volume and carotid blood pressure in a dog which was injected intravenously with 30 cc. of 2 per cent solution of the monosodium salt of arsphenamine (Fig. 3) 226
— showing from above down, the kidney volume, right carotid blood pressure and the respiration in a dog injected with 35 cc. of 2 per cent monosodium arsphenamine (Fig. 4) 228

Left pulmonary blood pressure (above) and right carotid tracing (below) (Fig. 5) 230

Pulmonary blood pressure (above) and right carotid tracing (below) (Fig. 6) 232

Death records (mounted together) from two dogs (Fig. 7) 234

Curves showing the percentage decrease produced in the catalase of the blood by the narcotics, and the percentage increase produced by caffeine and theobromin (Fig. 1) 245
— showing the decrease produced in the catalase of the blood of the liver and of the jugular vein by chloroform and ether and the increase produced by caffeine and theobromin (Fig. 2) 250

Pig’s ureter (Fig. 1) 255
— ureter (Fig. 2) 256
— ring of pig’s ureter (Fig. 3) 257
Pig’s ureter (Fig. 4) 257
— ureter (Fig. 5) 258
— ureter (Fig. 6) 258
— ureter (Fig. 7) 258
— ureter (Fig. 8) 259
— ureter (Fig. 9) 260
— ureter (Fig. 10) 260
— ureter (Fig. 11) 260
— ureter (Fig. 12) 261
— ureter (Fig. 13) 261
— ureter (Fig. 14) 262

(Dig. 1) 293

Detrimental effects of water (vapor tests) (Fig. 1) 307

Protective action of petroleum when dichlorethylsulphide is applied as “splash,” and when applied through fabric (Fig. 2) 308

Value of protective oiling (Fig. 3) 309

Comparison of oils (Fig. 4) 310

Protective value of dichloramine-T (Fig. 5) 311

Efficiency of dry powders (Fig. 6) 314

Showing the effect of cocaine hydrochloride on the CO₂ output of sciatic nerve of frog (Fig. 1) 336
— the effect of the time of treatment by the drug on the CO₂ output of sciatic nerve of frog (Fig. 2) 337

Rabbit (Fig. 1) 348
ILLUSTRATIONS

Cat, urethane, heart movements (downstroke-systole) and blood pressure
(Fig. 2) .................................................................................. 354
Isolated hearts of rabbits, perfused Langendorff (upstroke-systole) (Fig. 3) 355
Dog, urethane, limb volume, intestinal volume, blood pressure (Fig. 4) .... 357
Diagram .................................................................................. 387
Photograph ............................................................................ 388
Hydrolysis of dichlorehylsulphide in water ................................. 395
— of dichlorehylsulphide .......................................................... 395