

CONTENTS

NUMBER 1, OCTOBER, 1916

I. How Rapidly Does the Intact Thyroid Gland Elaborate its Specific Iodin Containing Hormone? By David Marine and J. M. Rogoff.....	1
II. The Antagonism Between Atropin and Certain Central Emetics. By Cary Eggleston.....	11
III. The Elimination of Strychnin by the Kidneys. By Robert A. Hatcher and Maurice I. Smith.....	27
IV. A Contribution to the Pharmacology of <i>Aconitum heterophylloides</i> , <i>A. nagearum</i> and <i>A. napellus</i> . By Thomas R. Fraser.....	43
V. Effect on Tadpoles of Feeding Thyroid Products Obtained by Alkaline Hydrolysis. By J. M. Rogoff and David Marine.....	57

NUMBER 2, NOVEMBER, 1916

VI. On the Secretion of Lymph. By H. Yanagawa.....	75
VII. Trichlor-tertiarybutyl Alcohol Anesthesia. By L. W. Rowe.....	107
VIII. The Pharmacology of the Seminal Vesicles. By J. A. Waddell.....	113
IX. Action of Opium Alkaloids on the Ducts of the Testis. By David I. Macht.....	121

NUMBER 3, DECEMBER, 1916

X. The Rôle of the Liver in Acute Polycythaemia. IV. Further Observations on the Effect of Shutting off the Arterial Blood Supply to the Liver, the Reaction of the Normal Animal to Epinephrin and Removal of the Liver from the Circulation. By Paul D. Lamson.....	129
XI. Can Adenine Acquire Antineuritic Properties. By Carl Voegtlin and George F. White.....	155
XII. The Action of Strychnine on Certain Invertebrates. By A. R. Moore.....	167
XIII. The Pharmacology of the Uterus Masculinus. By J. A. Waddell.....	171
XIV. The Pharmacology of the Prostate. By J. A. Waddell.....	179
XV. Observations of the Effects of Drugs on the Ileo-Colic Sphincter. By Mikizo Kuroda.....	187
XVI. On the Pharmacology of the Ureter. III. Action of the Opium Alkaloids. By David I. Macht.....	197

NUMBER 4, JANUARY, 1917

XVII. The Salicylates. IV. Salicylate in the Blood and Joint Fluid of Individuals Receiving Full Therapeutic Doses of the Drug. By R. W. Scott, T. W. Thoburn and P. J. Hanzlik.....	217
XVIII. A New Time Marker. By C. C. Lieb.....	227

- XIX. A Contribution to the Pharmacology of Stovaine. By Maurice I. Smith and Robert A. Hatcher..... 231
- XX. The Elimination of Hexamethylenetetramine (Urotropin) as an Index of Renal Function. By K. George Falk and Kanematsu Sugiura..... 241

NUMBER 5, FEBRUARY, 1917

- XXI. The Salicylates. V. Excretion of Salicyl in the Urines of Rheumatic and Non-rheumatic Individuals. By P. J. Hanzlik, R. W. Scott and T. W. Thoburn..... 247
- XXII. The Fate of Iodin, Iodids, and Iodates in the Body. By Torald Sollmann..... 269

NUMBER 6, MARCH, 1917

- XXIII. The Effects of Strychnine, Cocaine and Quinine on the Vas Deferens. By J. A. Waddell..... 279
- XXIV. On the Pharmacology of the Ureter. IV. Action of Hydrastin, Hydrastinin Cotarnin, Emetin and Some Pyridin Derivatives, with a Further Analysis of the Opium Action. By David I. Macht..... 287
- XXV. A Device for Overcoming Clotting During Direct Blood Pressure Experiments. By W. H. MacCraken and I. Werness..... 305
- XXVI. Endermic Reactions. I. By Torald Sollmann and J. D. Pilcher.. 309
- XXVII. Scientific Proceedings of the American Society for Pharmacology and Experimental Therapeutics. Eighth Annual Meeting..... 341

NUMBER 7, APRIL, 1917

- XXVIII. The Action of Strychnine in Certain Types of Cardiac Irregularities. By Maurice I. Smith..... 365
- XXIX. Endermic Reactions. II. Urticaria by Amins and Aromatic and Urea Derivatives. By Torald Sollmann..... 391
- XXX. The Proportion in Which Adrenalin Distributes Itself Between Corpuscles and Serum in Relation to the Technique of Testing for Epinephrin in Blood. By G. N. Stewart and J. M. Rogoff..... 393
- XXXI. The Pharmacology of the Vagina. By J. A. Waddell..... 411

NUMBER 8, MAY, 1917

- XXXII. On the Pharmacology of the Ureter. V. Action of Nitrates and Nitrites. By David I. Macht..... 427
- XXXIII. The Action of Epinephrin and Ergotoxin upon Single, Physiologically Isolated Cells. By R. A. Spaeth and H. G. Barbour..... 431
- XXXIV. Effect of Alcohol on the Respiration and the Gaseous Metabolism in Man. By Harold Higgins..... 441
- XXXV. On the Comparative Effects of the Opium Alkaloids Individually and in Combination with Each Other on the Gall Bladder. By David I. Macht..... 473
- XXXVI. The Vascular Reactions in Experimental Acute Tartrate Nephritis. By Howard T. Karsner..... 483

CONTENTS

v

NUMBER 9, JUNE, 1917

XXXVII. The Action of Sodium Citrate on the Isolated Intestine. By William Salant and E. W. Schwartz..... 497

XXXVIII. The Action of Succinate and its Hydroxy Derivatives on the Isolated Intestine. By William Salant, C. W. Mitchell and E. W. Schwartz..... 511

XXXIX. The Production of Renal Changes by Oil of Chenopodium and Fatty Oils, and the Protective Action of Diet on the Kidneys. By William Salant and Robert Bengis..... 529

ILLUSTRATIONS

Times emetic dose of pilocarpin (Chart).....	14
Distended urinary bladder after administration of aconitum heterophylloid (Fig. 1).....	50
After 7 days feeding with iodine-free hyperplastic lamb thyroid, etc. (Fig. 1) ..	61
— 7 days feeding with iodine-free product "A," etc. (Fig. 2).....	61
— 7 days with ox thyroid, etc. (Fig. 3).....	62
— 7 days feeding with ox thyroid product "A," etc. (fig. 4).....	62
— 7 days feeding with sheep thyroid product "A," etc. (Fig. 5).....	63
Control experiment, etc. (Fig. 6).....	66
After 13 days feeding with ox thyroid product "B," etc. (Fig. 7).....	66
— 13 days feeding with sheep thyroid product "B," etc. (Fig. 8).....	67
— 13 days feeding with hyperplastic lamb thyroid product "B," etc. (Fig. 9).....	67
— 13 days feeding with hyperplastic lamb thyroid product "B," etc. (Fig. 10).....	68
— 13 days feeding with hyperplastic thyroid product "B," etc. (Fig. 11)	68
Seminal vesicle of guinea pig, suspended in Tyrode's solution (Fig. 1).....	115
— vesicle of rat, suspended in Ringer's solution (Fig. 2).....	116
— vesicle of guinea pig, suspended in Tyrode's solution (Fig. 3).....	117
— vesicle of guinea pig, suspended in Tyrode's solution (Fig. 4).....	117
— vesicle of guinea pig, suspended in Tyrode's solution (Fig. 5).....	118
— vesicle of rat, suspended in Ringer's solution (Fig. 6).....	118
Rabbit's vas deferens (Fig. 1).....	124
— vas deferens (Fig. 2).....	124
Ejaculatory duct of sheep (Fig. 3).....	124
Seminal vesicle of guinea pig (Fig. 4).....	125
— vesicle of guinea pig (Fig. 5).....	125
In this figure the normal animal, etc. (Fig. 1).....	149
— animal the stomach, intestine, etc. (Fig. 2).....	149
Animal cut in two transversely, etc. (Fig. 3).....	150
— cut transversely, etc. (Fig. 4).....	150
Two conditions in normal animal, etc. (Fig. 5).....	151
— in which the arterial blood supply to the liver has been shut off, etc. (Fig. 6).....	152
— in which the liver has been functionally removed, etc. (Fig. 7).....	152
Uterus masculinus of rabbit, suspended in Tyrode's solution (Fig. 1).....	172
— of rabbit, suspended in Tyrode's solution (Fig. 2).....	173
— of rabbit, suspended in Tyrode's solution (Fig. 3).....	175
— of rabbit, suspended in Tyrode's solution (Fig. 4).....	175
— of rabbit, suspended in Tyrode's solution (Fig. 5).....	176
— of rabbit, suspended in Tyrode's solution (Fig. 6).....	177
— of rabbit, suspended in Tyrode's solution (Fig. 7).....	177

Prostate of rabbit, suspended in Tyrode's solution (Fig. 1).....	182
— of cat, suspended in Tyrode's solution (Fig. 2).....	182
— of rat, suspended in Ringer's solution (Fig. 3).....	183
— of rabbit, suspended in Tyrode's solution (Fig. 4).....	183
— of rabbit, suspended in Tyrode's solution (Fig. 5).....	184
— of rabbit, suspended in Tyrode's solution (Fig. 6).....	184
— of cat, suspended in Tyrode's solution (Fig. 7).....	185
Cat (Fig. 1).....	188
— (Fig. 2).....	189
— (Fig. 3).....	189
— (Fig. 4).....	190
Cocaine effect, etc. (Fig. 5).....	191
Adrenaline effect, etc. (Fig. 6).....	192
Increased tone, etc. (Fig. 7).....	192
Excitation effect, etc. (Fig. 8).....	193
Nicotine effect, etc. (Fig. 9).....	193
Pig's ureter (Fig. 1).....	198
— ureter (Fig. 2).....	198
— ureter (Fig. 3).....	199
— ureter (Fig. 4).....	199
— ureter (Fig. 5).....	200
— ureter (Fig. 6).....	200
— ureter (Fig. 7).....	200
— ureter (Fig. 8).....	201
— ureter (Fig. 9).....	201
— ureter (Fig. 10).....	201
— ureter (Fig. 11).....	202
— ureter (Fig. 12).....	202
— ureter (Fig. 13).....	203
— ureter (Fig. 14).....	203
— ureter (Fig. 15).....	204
— ureter (Fig. 16).....	204
— ureter (Fig. 17).....	205
— ureter (Fig. 18).....	205
— ureter (Fig. 19).....	206
— ureter (Fig. 20).....	206
— ureter (Fig. 21).....	206
— ureter (Fig. 22).....	207
— ureter (Fig. 23).....	207
— ureter (Fig. 24).....	207
— ureter (Fig. 25).....	209
— ureter (Fig. 26).....	209
Ring of human ureter (Fig. 27).....	211
Pig's ureter (Fig. 28).....	212
— ureter (Fig. 29).....	213
— ureter (Fig. 30).....	214
(Fig. 1).....	228
(Fig. 2).....	229

ILLUSTRATIONS

ix

Perfusion of the rabbit's heart (Fig. 1).....	233
Percentage excretion of salicyl, etc. (Fig 1).....	254
Total quantity of salicyl excreted, etc. (Fig. 2).....	255
Percentage concentration of salicyl, etc. (Fig. 3).....	257
Excretion of urine, etc. (Fig. 4).....	257
Pig's ureter (Fig. 1).....	289
— ureter (Fig. 2).....	289
— ureter (Fig. 3).....	289
— ureter (Fig. 4).....	290
— ureter (Fig. 5).....	290
— ureter (Fig. 6).....	290
— ureter (Fig. 7).....	293
— ureter (Fig. 8).....	294
— ureter (Fig. 9).....	294
— ureter (Fig. 10).....	294
— ureter (Fig. 11).....	295
— ureter (Fig. 12).....	295
— ureter (Fig. 13).....	295
— ureter (Fig. 14).....	296
— ureter (Fig. 15).....	296
— ureter (Fig. 16).....	298
— ureter (Fig. 17).....	298
— ureter (Fig. 18).....	299
— ureter (Fig. 19).....	299
— ureter (Fig. 20).....	300
— ureter (Fig. 21).....	300
— ureter (Fig. 22).....	301
— ureter (Fig. 23).....	301
Urticaria, etc. (Fig. 1).....	312
Reactions of intact skin (Fig. 2).....	312
Epinephrin blanching, etc., (Fig. 3).....	320
Frog's heart perfused, etc. (Fig. 1).....	370
Rabbit's heart perfused, etc. (Fig. 2).....	370
— heart perfused, etc. (Fig. 3).....	372
Perfusion of frog's heart, etc. (Fig. 4).....	372
Frog's heart perfused, etc. (Fig. 5).....	375
Perfusion of rabbit's heart (Fig. 6).....	377
Rabbit's heart perfused, etc. (Fig. 7).....	379
Frog's heart perfused, etc. (Fig. 8).....	380
— heart perfused, etc. (Fig. 9).....	381
— heart perfused, etc. (Fig. 10).....	381
Perfusion of the rabbit's heart (Fig. 11).....	384
Frog's heart perfused, etc. (Fig. 12).....	387
Action of adrenalin, etc. (Fig. 1).....	394
— of adrenalin, etc. (Fig. 2).....	395
Comparison of serum, etc. (Fig. 3).....	397
Specimens of blood pressure tracings, etc. (Fig. 4).....	399
Comparison of effects produced, etc. (Fig. 5).....	399

Blood pressure tracings, etc. (Fig. 6)	400
Rabbit intestine segment (Fig. 7)	401
— uterus segment (Fig. 8)	401
Comparison of effect, etc. (Fig. 9)	403
Rabbit intestine segment (Fig. 10)	404
Ringer was replaced by, etc. (Fig. 11)	404
Rabbit intestine segment (Fig. 12)	406
— intestine segment (Fig. 13)	406
— intestine segment (Fig. 14)	407
Effect of adrenal blood, etc. (Fig. 15)	407
Rabbit intestine segment tests, etc. (Fig. 16)	408
Effect of the sera, etc. (Fig. 17)	409
Vagina of rabbit (Fig. 1)	415
— of cow (Fig. 2)	415
— of rat (Fig. 3)	415
— of cat (Fig. 4)	416
— of sow (Fig. 5)	416
— of rabbit (Fig. 6)	417
— of cat (Fig. 7)	418
— of rabbit (Fig. 8)	419
— of rabbit (Fig. 9)	421
— of rabbit (Fig. 10)	421
— of rabbit (Fig. 11)	422
— of rabbit (Fig. 12)	423
— of rabbit (Fig. 13)	424
— of dog (Fig. 14)	424
Pig's ureter (Fig. 1)	429
— ureter (Fig. 2)	429
— ureter (Fig. 3)	429
Normal contraction, etc. (Fig. 1)	434
After having been immersed, etc. (Fig. 2)	435
Curve showing the behavior, etc. (Fig. 3)	435
The curve, etc. (Fig. 4)	437
Normal effect of epinephrin solutions, etc. (Fig. 5)	438
Isolated gall bladder, etc. (Fig. 1)	475
Strip of cat's gall bladder, etc. (Fig. 2)	475
Isolated gall bladder of dog (Fig. 3)	476
Strip of cat's gall bladder, etc. (Fig. 4)	476
— of dog's gall bladder (Fig. 5)	476
— of cat's gall bladder, etc. (Fig. 6)	477
Cat's gall bladder in situ (Fig. 7)	478
Dog's gall bladder in situ (Fig. 8)	478
— gall bladder in situ (Fig. 9)	479
— gall bladder in situ (Fig. 10)	479
Normal dog A (tracing 1)	486 facing
Dog 8 in second day of tartrate nephritis (tracing 2)	486 facing
Rabbit 2315 IB (Fig. 1)	499
— 2285 IA (Fig. 2)	500
— 2326 IA (Fig. 3)	504

ILLUSTRATIONS

xi

Cat 483A (Fig. 4).....	505
Rabbit 2379 IA (Fig. 1).....	513
— 2353 IB (Fig. 2).....	515
— 2342 IB (Fig. 3).....	519
— 2349 IIB (Fig. 4).....	520