CONTENTS

NUMBER 1, AUGUST, 1924

I. The Treatment of Lobar Pneumonia with Subcutaneous Injections of Pneumococcus Antibody Solution. By Russell L. Cecil and Horace S. Baldwin .......................... 1

II. On Sensitiveness to Drugs in Animals and Men. By W. Storm van Leeuwen ........................................... 13

III. On Antagonism of Drugs. By W. Storm van Leeuwen ........... 21

IV. A Possible Explanation for Certain Cases of Hypersensitiveness to Drugs in Men. By W. Storm van Leeuwen ........................................... 25

V. The Control of the Motility of the Human Stomach by Drugs and Other Means. By W. H. Dickson and M. J. Wilson ................... 33


VII. Contributions to the Pharmacology of Extracts of the Posterior Lobe of the Pituitary Gland. By A. C. Kolls and E. M. K. Geiling ........... 67

VIII. The Diuretic and Antidiuretic Effect of Pituitary Extract and Suggestions for a subsidiary Test. By W. G. Mackersie ........... 83

NUMBER 2, SEPTEMBER, 1924

IX. Natural Resistance of Albino Rats and Mice to Histamine, Pituitary and Certain Other Poisons. By Carl Voegtlin and Helen A. Dyer ....... 101

X. Studies of Chromic Intoxications on Albino Rats. VIII. Yellow phosphorus. By Torald Sollmann ........................................... 119


XII. The Nephropathic Action of the Dicarboxylic Acids and Their Derivatives. II. Glutaric and Malonic Acids. By William C. Rose ........... 147

XIII. A Study of Two Series of Procaine Derivatives with Reference to the Relationship between Their Pharmacological Action and Chemical Constitution. By H. L. Schmitz and A. S. Loevenhart ........... 159

XIV. A Comparative Study of the Local Anesthetic Properties of p-Amino Benzoyl Di-iso-propyl Amino Ethanol Hydrochloride ("Isocaine"), Cocaine, Procaine and Butyn. By H. L. Schmitz and A. S. Loevenhart ....... 167

NUMBER 3, OCTOBER, 1924

XV. The Mechanism of Edema Production by Paraphenylenediamine. By M. L. Tainter and P. J. Hanzlík .......... 179

XVI. Influence of Menotoxin on the Coagulation of Blood. By David I. Maček ........................................... 213

XVII. The Toxicity of Chaulmoogra Oil (Oleum Hydnocarpi). By Bernard E. Read ........................................... 221
CONTENTS

NUMBER 4, NOVEMBER, 1924

XVIII. Barbital Narcosis. II. Blood Sugar and Blood Coagulation Time during Barbital Hypothermia. By M. M. Ellis and O. W. Barlow.............. 259


XX. The Action of Neo-Salvarsan and Carbon Monoxide on the Choroid Plexus and Meninges. By Sergius S. Siengalewicz.................... 289

XXI. A Note on the Passage of Trypan Blue from the Blood Stream into Body Fluids. By S. S. Siengalewicz and A. J. Clark................. 301

XXII. Quantitative Estimation of the Reducing Power of Normal and Cancer Tissue. By Carl Voegtlin, J. M. Johnson and Helen A. Dyer... 305

NUMBER 5, DECEMBER, 1924


XXIV. The Action of Ephedrine, the Active Principle of the Chinese Drug Ma Huang. By K. K. Chen and Carl F. Schmidt.................... 339


XXVII. On the Dialysis of the Physiologically Active Constituents of the Infundibulum. By Maurice I. Smith and Wm. T. McClosky........... 391

XXVIII. A Comparison of the Action of Some Secondary and Tertiary Aromatic Alcohols with Special Reference to Local Anesthesia. By J. P. Quigley and Arthur D. Hirschfelder...................... 405

NUMBER 6, JANUARY, 1925

XXIX. Studies upon the Local Anesthetic and Antispasmodic Actions of Some Ethers and Esters of Saligenin. By Herman H. Jensen and Arthur D. Hirschfelder................................. 423

XXX. The Effects of Excitement on the Action of a Soporific Drug (Sodium Barbital). By A. D. Hirschfelder and Carl H. Rice................... 449

XXXI. The rôle of Epinephrin on the Production of Edema by Local Anesthetics. By Arthur D. Hirschfelder, Irma Backe and Janette Jennison..................... 453

XXXII. The Penetration of Mercurochrome, Acriflavin and Gentian Violet into Edematous Tissues. By A. D. Hirschfelder, George Malmgren and Donald Creavy................................................... 459

XXXIII. Insulin and Tissue Sugar. By Carl F. Cori and Gertrude T. Cori 456
ILLUSTRATIONS

Effect of forced breathing (Fig. 1) ................................ facing p. 40
The increase of intragastric pressure due to forced breathing (Fig. 2) ........... 43
Epinephrine on arterial rings (Fig. 1) .................................... 56
Strychnine on frogs (Fig. 2) ............................................. 60
Chloral hydrate on frogs (Fig. 3) ........................................ 63
Curves showing the action of pituitary liquid on the diastolic and systolic pressure levels and pulse rate in unanesthetized and anesthetized dogs (Fig. 1) ......................................................... 72
Heart shadow. Dog G1 (Fig. 2) ............................................ 73
Photomicrographs of capillaries taken from inner aspect of an unanesthetized dog's ear (Fig. 3) ................................................... 78
Blood pressure tracings (Fig. 1) ........................................... 97
— pressure tracings (Fig. 2) .............................................. 98
Showing fall of blood pressure in a rat weighing 368 grams following the intravenous injection of 24.4 mgm. histamine phosphate per kilogram body weight (Fig. 1) ......................................................... 109
— the effect of histamine phosphate (β-1) on the isolated virgin uterus of rats (Fig. 2) .............................................................. 110
— contraction of isolated uterus of virgin rat produced by an extract of the standard pituitary powder (Fig. 3) .................................. 110
— the contraction produced by histamine phosphate on the isolated loop of the jejunum of a rat (Fig. 4) ............................................. 112
Shows the effect of a purified extract from the posterior lobe of the pituitary extract—Abel's tartrate (A), and an extract of the standard pituitary powder (B) on the jejunum of a rat (Fig. 5) .......................................................... 112
Explanation of growth curves (Figs. 1 to 4) .................................. 120
Influence of a paraphenylene diamine on swelling of umbilical cord (connective tissue) and gelatine in horse serum (Fig. 1) ................................. 187
Effect of paraphenylene diamine on relative concentrations of hemoglobin and total solids of blood in rabbits (Fig. 2) ................................. 202
Perfusion of the head and posterior extremities of rabbits without and with paraphenylenediamine (0.38 per cent concentration in Tyrode's solution containing 6 per cent acacia and 1:1,000,000 pituitary extract— (Fig. 3) ................................. 208
Fatty infiltration of the liver after administration of hydnocarpus oil (Fig. 1) ................................................................. 228
Blood sugar, coagulation time and anal temperature of pigeons during barbital narcosis (Fig. 1) ...................................................... 261
— sugar, coagulation time and anal temperature of cats during barbital narcosis (Fig. 2) .............................................................. 262
Rate of excretion in the bile of rabbits of certain phthalein dyes after their intravenous injection of 5 mgm. per kilo (Chart 1) .............................. 276
ILLUSTRATIONS

Disappearance from the blood stream of certain phthalein dyes after ligation of approximately 80 per cent of the liver in rabbits (Chart 2).................. 282
Sections of rabbits' brains after intravenous injection with trypan blue (Fig. 1)................................................................. 294
The effect of peptone on the passage of trypan blue into fluid in the peritoneal cavity (Fig. 1)................................................................. 303
Reducing power of normal and cancer tissue (Fig. 1).......................... 309
— power of normal and cancer tissue (Chart I).................................. 321
— power of normal and cancer tissue (Chart II)................................. 322
— power of normal and cancer tissue (Chart III)............................... 326
— power of normal and cancer tissue (Chart IV)............................... 327
Effects of insulin injections upon normal dogs and rabbits (Fig. 1)........ 336
Showing the effect of an intravenous injection of ephedrine on kidney volume and blood pressure after paralytic doses of nicotine (Fig. 1)........... 340
— the effect on the heart of intravenous injection of ephedrine (Fig. 2).... 342
— showing the comparative effect on the heart of intravenous injection of epinephrine and of application of ephedrine to the stellate ganglion (Fig. 3)........ 343
— the effects of ephedrine on the venous outflow from a perfused kidney (Fig. 4)........................................................................... 345
— the effect of ephedrine on the isolated intestine (Fig. 5)..................... 346
Effect of pituitary extract on renal secretion of normal man (Chart I)...... 350
Rabbit, female, weight, 3.4 kgm.; urethane per os 3 grams per kilo. Cannula in bladder (Chart II)................................................................. 383
—, female, weight 1.5 kgm.; urethane per os 2 grams per kilo. Cannula in bladder (Chart III)................................................................. 384
Effect of pituitary extract on diuresis in the non-anesthetized rabbit with polyuria (Chart IV)................................................................. 386
Anti-diuretic effect of pituitary extract in the normal non-anesthetized rabbit (Chart V)................................................................. 387
Uterus of guinea pig, 200 grams (Tracings 1 and 2)............................... 395
— of guinea pig, 200 grams (Tracing 3).............................................. 396
Dog, male, 8 kilos. Morphine and chloroform anesthesia. Atropine intravenously (Tracing 4)................................................................. 398
—, male, 10 kilos. Morphine and chloroform anesthesia. Atropine intravenously (Tracing 5)................................................................. 399
Rabbit, female, 2 kilos. Paraldehyde. Cannula in bladder. Diffusion of renal active constituent of infundibulum (Chart I)......................... 400
—, male, 2.2 kilos. Urethane. Cannula in bladder (Chart II)................. 401
Effect of trichloroethylphenylcarbinol on the blood-pressure and respiration of a cat (Fig. 1)................................................................. 420
Intestinal segment from rabbit; di-benzoyl ether of saligenin (Fig. 1)........ 436
— segment from rabbit; benzyl ether of saligenin (Fig. 2)...................... 437
Blood pressure and respiration—rabbit; normal butyl ether of saligenin (Fig. 3).................................................................................. 445
— pressure and respiration—rabbit; dibenzoyl ether of saligenin (Fig. 4).... 446