## CONTENTS

## Number 1, September, 1941

	,,	
I.	The Sweat Response to Drugs with Nicotine-like Action. Julius M. Coon and Stephen Rothman	1
II.	Physico-Chemical Properties of the Arsphenamines in Relation to Toxicity and Therapeutic Efficiency. Harold N. Wright, A. Bieder-	
	mann, E. Hanssen and C. I. Cooper	12
III.	The Local Anesthetic Activity of Certain Derivatives of $\alpha$ and $\beta$ -Naphthol. Edwin J. Fellows, Raymond W. Cunningham and A. E.	
	Livingston	27
IV.	The Relation of the Liver Histamine to Anaphylactic Shock in Dogs.	
	Gaylord Ojers, Carl A. Holmes, and Carl A. Dragstedt	33
V.	Reduction of Arterial Blood Pressure of Hypertensive Rats by Adminis-	
	tration of Renal Extracts. H. Jensen, W. C. Corwin, S. Tolksdorf,	
	J. J. Casey and F. Bamman	<b>3</b> 8
VI.	Hypnotic Action of 5,5-Dialkyl-2,4-Oxazolidinediones with Special	
	Reference to 5,5-DI-n-Propyl-2,4-Oxazolidinedione. Roger W.	
	Stoughton and J. H. Baxter, Jr	45
VII.	The Differential Excretion of Bromide and Chloride Ions and Its Rôle	
	in Bromide Retention. Oscar Bodansky and Walter Modell	51
VIII.	A Method for Studying Expectorant Action in Animals by Direct	
	Measurement of the Output of Respiratory Tract Fluids. William F.	
	Perry and Eldon M. Boyd	65
IX.	The Effect of 2,3,5-Triiodobenzoate and Various Other Compounds on	
	the Growth of the Tubercle Bacillus. Arthur K. Saz and Frederick	
	Bernheim.	<b>7</b> 8
Χ.	Studies on the Toxicity and Pharmacology of Pantothenic Acid. Klaus	~ <b>-</b>
377	Unna and Joseph G. Greslin.	85
X1.	Studies on the Relation of Drug Addiction to the Autonomic Nervous	01
3711	System: Results of Cold Pressor Tests. C. K. Himmelsbach	91
AII.	Pain Threshold Measurements in the Dog. Howard L. Andrews and	99
VIII	Ward Workman	99
AIII.	dine, Sulfathiazole and Sulfadiazine Against Escherichia coli In Vivo	
	and In Vitro. H. J. White, J. T. Litchfield, Jr. and E. K. Marshall,	
	Jr	104
		101
	Number 2, October, 1941	
XIV.	Potentiation of Acetylcholine by Alcohol and Ether. G. H. Ettinger,	
	Albert B. Brown and A. Hugh Megill	119
XV.	Studies Concerning the Anesthetic Action of Steroid Hormones. Hans	
	Selye	127
XVI.	The Effect of Sodium Amytal on the Emptying Time of the Normal	
	Human Stomach. Edward J. Van Liere and David W. Northrup	142
XVII.	The Effect of Various Agents on Blood Coagulation Time in Dogs. J.	
	A. Richardson, F. C. Hays and R. P. Walton	146
	:::	

iv CONTENTS

XVIII. The Action of Lupine Alkaloids on the Motility of the Isolated Rabbit Uterus. E. William Ligon, Jr	151
XIX. Effect of Atabrine Upon Experimental Cysticercosis of Mice. James T.  Culbertson and Sylvia H. Greenfield	
XX. The Depression of Experimental Polycythemias by Various Substances	100
in Dogs, Rabbits, and Man. John Emerson Davis	162
XXI. Studies on the Acute Toxicity of Sulfacetimide (Para-Aminobenzene Sulfonyl Acetyl Imide). Richard Donovick and Edward Henderson	170
XXII. The Therapeutic Effect of Sulfacetimide in Experimental Infections	110
Due to Escherichia Coli. Richard Donovick and Edward Henderson.	173
XXIII. The Toxicity and Effect of Certain Fluorinated Derivatives of Phenyl- alanine and Tyrosine on the Basal Metabolic Rate of the Rat. Paul	
D. Boyer, Robert J. Evans and Paul H. Philips	176
XXIV. A Study of the Acquired Resistance of Fixed Tissue Cells Morpho-	•••
logically Altered Through Processes of Repair. V. Concerning	
Physical Modifications of Cells Associated With the Development of a Resistance to Certain Chemical Agents. The Acquired Resistance	
of the Kidney to Bichloride of Mercury. Wm. De B. MacNider	186
XXV. Metabolism, Toxicity and Manner of Action of Gold Compounds in the	
Treatment of Arthritis. II. A Comparative Study of the Distribu- tion and Excretion of Gold Following the Intramuscular Injection of	
Five Different Gold Compounds. Walter D. Block, Oliver H.	
Buchanan and R. H. Freyberg.	200
XXVI. The Selenium Content of "Normal" Urine. James H. Sterner and Viola Lidfeldt.	205
XXVII. The Relative Activity of Digitalis Preparations in the Frog, the Cat,	200
and Man, and Its Bearing on the Problem of Bio-Assay and So-called	
Deterioration. Harry Gold, McKeen Cattell, Nathaniel T. Kwit and Milton Kramer	212
Number 3, November, 1941	
XXVIII. The Respiratory Effects of Morphine, Codeine, and Related Substances. VIII. The Effect of Substitutions on Carbon-14. Margaret Sumwalt	
and Harry R. Oswald	229
XXIX. The Respiratory Effects of Morphine, Codeine, and Related Substances.	
IX. The Effect of Muzzling the Phenolic Hydroxyl. Margaret Sumwalt, Charles I. Wright and Augustus T. Miller	246
XXX. The Respiratory Effects of Morphine, Codeine, and Related Substances.	
X. The Effect of Substituting an Additional Group in Ring-Three.	oro.
Margaret Sumwalt and Harry R. Oswald	258
XI. The Influence of the Acetoxyl Group. Margaret Sumwalt,	
Harry R. Oswald and Harry A. Lusk.	274
XXXII. Changes in Susceptibility to the Convulsant Action of Metrazol.  Jacob Sacks and Nathan M. Glaser	289
XXXIII. The Effects of Estrone, Diethylstilbestrol and Testosterone on the In	
Vitro Response of the Spayed Rat Uterus to Pitocin. Gerald J.	000
Duffner and Richard W. Whitehead	296
R. L. Masland	304
XXXV. Studies on a Series of New Triazole Derivatives. Raymond W. Cun-	010
ningham, Edwin J. Fellows and A. E. Livingston	312

CONTENTS V

XXXVI. The Pharmacology and Toxicology of the Ethyl Ester of 1-methyl-4- phenyl-piperidine-4-carboxylic Acid (Demerol). Charles M. Gruber, E. Ross Hart and Charles M. Gruber, Jr.  XXXVII. The Effect of Calcium and Strontium Salts on the Action of Sodium Pentobarbital. Versa V. Cole.  XXXVIII. On the Mode of Action of the Sulfonamides. I. Action on Escherichia coli. Henry I. Kohn and Jerome S. Harris.	335
Number 4, December, 1941	
XXXIX. A Method for the Rapid Isolation and Spectrographic Measurement of Cocaine from Brain Tissue. L. A. Strait, R. B. Aird and S. Weiss	363
XLI. On the Mode of Action of the Sulfonamides. II. The Specific Antagonism between Methionine and the Sulfonamides in Escherichia coli. Jerome S. Harris and Henry I. Kohn	383
XLII. Relationship of the Chemical Structure of Morphine Derivatives to Their Urinary Excretion and Free and Bound Forms. Fred W.	
Oberst	401
Rabbits. M. Rocha e. Silva and Carl A. Dragstedt	405
XLIV. The Use of Clorarsen in the Treatment of Syphilis. Ralph R. Tompsett, Wilbur G. Downs, Walsh McDermott and Bruce Webster	412
XLV. A Comparison of Calcium Acetylsalicylate (as Calsamate) to Acetylsalicylic Acid. J. W. Stutzman, O. S. Orth and C. H. Mellish	<b>42</b> 0
XLVI. The Effect of Metrazol upon the Blood Pressure of Man and Dog. R. A. Woodbury, W. F. Hamilton, H. M. Cleckley and Perry P. Volpitto	421
XLVII. The Effect of Certain Anesthetics on Blood Keto Acid Levels. Wm. M.	
Govier and C. M. Greer	
XLVIII. Hypnotics and Blood Sugar Regulating Centres. F. E. Rosenthal	446
Prostigmine and Guanidine on Serum and Muscle Potassium. Vin-	
<b>1</b>	455
L. The Effects of Mecholyl, Potassium Chloride and Prostigmine on	
Neuromuscular Atrophy and Regeneration. H. M. Hines, J. D.	400
Thomson and B. Lazere	403
Activity as Compared with that of Sulfapyridine, Sulfathiazole and Sulfadiazine. L. H. Schmidt, J. M. Ruegsegger, Clara L. Sesler and	
Morton Hamburger, Jr	468
LII. Index	475