

CONTENTS

NUMBER 1, SEPTEMBER, 1953

I. Effect of Fluoroacetate on the Conversion of Isotopic Acetate to Carbon Dioxide by the Mouse. Nathan Lifson and Joyce A. Swanson.....	1
II. N-Allylnormorphine: Effects of Single Doses and Precipitation of Acute "Abstinence Syndromes" During Addiction to Morphine, Methadone or Heroin in Man (Post-Addicts). Abraham Wikler, Havelock F. Fraser and Harris Isbell.....	8
III. Heparin-Like Anticoagulant Action of Sulfonated Lignins from Commercial Waste Sulfite Liquor. T. A. Loomis and R. E. Beyer.....	21
IV. The Fate of Pentobarbital in Man and Dog and a Method for its Estimation in Biological Material. Bernard B. Brodie, J. J. Burns, Lester C. Mark, Philip A. Lief, Eleonore Bernstein and E. M. Papper.....	26
V. An Examination of Some Spinal and Ganglionic Actions of Analgetic Materials. Leonard Cook and Desmond D. Bonnycastle.....	35
VI. Clinical Pharmacology of Digoxin. Harry Gold, McKeen Cattell, Theodore Greiner, Lawrence W. Hanlon, Nathaniel T. Kwit, Walter Modell, Elaine Cotlove, Joseph Benton and Harold L. Otto.....	45
VII. Reflex Hyperpnea Induced by Papaverine Acting upon the Carotid and Aortic Bodies. Robert G. Nims, John W. Severinghaus and J. H. Comroe, Jr.....	58
VIII. Studies on Sympathomimetic Amines. I. The Biotransformation and Physiological Disposition of <i>l</i> -Ephedrine and <i>l</i> -Norephedrine. Julius Axelrod....	62
IX. Urinary Excretion of <i>d</i> -Tubocurarine in Man. Werner Kalow.....	74
X. Comparative Pharmacological Study of the Mono and Dicholine Esters of Succinic Acid. C. H. Ellis, A. L. Wnuck, R. V. Fanelli and E. J. de Beer....	83
XI. Effects of Single Doses of N-Allylnormorphine on Hindlimb Reflexes of Chronic Spinal Dogs During Cycles of Morphine Addiction. Abraham Wikler and Robert L. Carter.....	92
XII. The Appearance of Procaine in the Spinal Fluid During Peridural Block in Man. M. Jack Frumin, Herman Schwartz, J. J. Burns, Bernard B. Brodie and E. M. Papper.....	102

NUMBER 2, OCTOBER, 1953

XIII. Similarity of Acute Hemodynamic Response to <i>l</i> -Epinephrine and <i>l</i> -Arterenol. Mary E. Zanetti and David F. Opdyke.....	107
XIV. Estimating the Dose of a Cardiac Glycoside. C. I. Bliss, Theodore Greiner and Harry Gold.....	116
XV. The Renal Hemodynamic Effects of a Xanthine Compound, Diethylaminoethyl Theophylline Hydrochloride (Parephyllin). W. R. Livesay and John H. Moyer.....	123
XVI. Reversal of the Pressor Response to Carotid Clamping by Fluoroacetate-Fluoride Mixtures. M. N. Guruswami and Maynard B. Chenoweth.....	136
XVII. Effects of Hydergine (CCK #179) on the Modification of Tolerance to Morphine and <i>l</i> -Isomethadone Hyperglycemia in Rabbits. Nilkanth M. Phatak and Norman A. David.....	139
XVIII. Atrolactamide (Themisone, M-144): Its Determination, Absorption and Excretion. T. R. Sherrod and H. I. Zubaidi.....	148
XIX. N-Allylnormorphine as an Antagonist to the Intestinal Spasm Produced by the Addicting Analgesics. Charles M. Gruber, Jr. and Charles M. Gruber.....	157

XX.	Toxicologic Studies on Zinc and Disodium Ethylene Bisdithiocarbamates. R. Blackwell Smith, Jr., J. K. Finnegan, P. S. Larson, P. F. Sahyoun, M. L. Dreyfuss and H. B. Haag	159
XXI.	The Use of the Cat in the Bioassay of Choleric Agents. Donald L. Cook, Lyle D. Calvin and Mary Anne Kalm	167
XXII.	Further Cardiovascular and Renal Hemodynamic Studies Following the Administration of Hydrallazine (1-Hydrazinophthalazine) and the Effect of Ganglionic Blockade with Hexamethonium on these Responses. John H. Moyer, Russell A. Huggins and Carroll A. Handley	175
XXIII.	The Relation Between Skin Temperature and the Effect of Morphine upon the Response to Thermal Stimuli in the Albino Rat and the Dog. Charles A. Winter and Lars Flataker	183
XXIV.	Comparative Pharmacology of Levorphan, Racemorphan and Dextrorphan and Related Methyl Ethers. Wilbur M. Benson, Paul L. Stefko and Lowell O. Randall	189
XXV.	Urinary Excretion of Vioform and Diodoquin in Rabbits. W. T. Haskins and George W. Luttermoser	201
XXVI.	The Effect of Histamine on Renal Hemodynamics. William P. Blackmore, Vernon E. Wilson and Theodore R. Sherrod	206
XXVII.	The Transport of Priscoline by the Renal Tubules. Jack Orloff, Lewis Aronow and Robert W. Berliner	214
XXVIII.	Observations on the Metabolism of Nicotine by Tissue Slices. Archie W. Miller, Jr. and P. S. Larson	218
XXIX.	Aureomycin Absorption and Distribution in the Gastro-Intestinal Tract of the Dog. William D. Gray, Ronald T. Hill, Robert Winne and Raymond W. Cunningham	223

NUMBER 3, NOVEMBER, 1953

XXX.	The Importance of Metabolic Pathways for the Positive Inotropic Actions of Cardiac Glycosides and Calcium Ions. Sydney Ellis	233
XXXI.	The Metabolic Fate of the Optical Isomers of Methadone. Chen-Yü Sung and E. Leong Way	244
XXXII.	Coronary Dilator Action of the Adenine-ATP Series. Martin M. Winbury, Dolores H. Papierski, Miriam L. Hemmer and W. E. Hambourger	255
XXXIII.	The Action of Veriloid on Carotid Pressoreceptors. Carl C. Gruhzt, W. A. Freyburger and G. K. Moe	261
XXXIV.	The Effect of Halogenation on the Hypnotic and Anticonvulsant Activities of Acetylenic Carbinols. S. Y. P'an, L. Markarian, W. M. McLamore and A. Bavley	268
XXXV.	Effects of Epinephrine and Typhoid Vaccine on Segmental Vascular Resistances in the Human Kidney. Morton H. Maxwell, Domingo M. Gomez, Alfred P. Fishman and Homer W. Smith	274
XXXVI.	The Persistence of Mental Impairment following a Hypnotic Dose of a Barbiturate. John M. von Felsing, Louis Lasagna and Henry K. Beecher	284
XXXVII.	Effects of Dimercaprol on the Metabolism of Pentobarbital in Mice. J. B. Kahn, Jr.	292
XXXVIII.	The Reflex Respiratory and Circulatory Activity of 1-Pyridindene Derivatives. Harry A. Walker, Passie S. Jones and Arthur P. Richardson	301
XXXIX.	A New Technique for the Simultaneous Recording of Oxygen Consumption and Contraction of Muscle: the Effect of Ouabain on Cat Papillary Muscle. Kwang Soo Lee	304
XL.	The Simultaneous Recording of Oxygen Uptake and Contraction of Papillary Muscles as Affected by <i>l</i> -Epinephrine and <i>l</i> -Norepinephrine. Kwang Soo Lee	313

NLI. Distribution and Excretion of C ¹⁴ Labeled Priscoline-HCl in Rats. Bernard Century, L. E. Ellinwood, J. D. Kohli and J. M. Coon.....	318
NLII. The Chemical Transformations of Dibenamine and Dibenzylidine and Biological Activity. Stewart C. Harvey and Mark Nickerson.....	328
NLIII. Quantitative Studies of the Physiological Disposition of 3-Methyl-5-Ethyl-5-Phenyl Hydantoin (Mesantoin) and 5-Ethyl-5-Phenyl Hydantoin (Nirvanol). Thomas C. Butler.....	340
NLIV. The Physiological Disposition of Phenylbutazone (Butazolidin) in Man and a Method for Its Estimation in Biological Material. J. J. Burns, Rose K. Rose, Theodore Chenkin, A. Goldman, Arthur Schuler and Bernard B. Brodie.....	346
NLV. Effect of the Isomers of Amphetamine and Desoxyephedrine on Gastric Emptying in Man. David W. Northup and Edward J. Van Liere.....	358
NLVI. The Inhibitory Effects of Colchicine on the Gastric Secretion Produced by Histamine and Other Secretagogues. W. Koskowski and M. Mahfouz ..	361

NUMBER 4, DECEMBER, 1953

NLVII. The Effect of Sodium Dehydrocholate upon the Oxygen Uptake of Liver and Cerebral Cortex Slices of Fed and Starved Rats. L. S. Schanker and L. Eisenbrandt.....	367
NLVIII. Ganglionic Blocking Action of Atropine and Methylatropine. Lewis D. Fink and Peter Cervoni.....	372
NLIX. The Effects of Nutritional Deficiency on Response to Thiopental. Howard A. Levy, Joseph R. DiPalma and Carl Alper.....	377
L. Acute and Chronic Toxicity of Butazolidin. Lloyd W. Hazleton, Thomas W. Tusing and Emily G. Holland.....	387
LI. The Effectiveness of Oral Analgesics (Morphine, Codeine, Acetylsalicylic Acid) and the Problem of Placebo "Reactors" and "Non-Reactors". Henry K. Beecher, Arthur S. Keats, Frederick Mosteller and Louis Lasagna.....	393
LII. The Intracellular Distribution of Histamine. J. H. Copenhaver, Jr., Mary Nagler and Andres Goth.....	401
LIII. The Convulsant and Analeptic Action of Substituted 1,3-Diamino-2-Propanols in Mephenesin Paralysis. F. M. Berger and T. E. Lynes.....	407
LIV. The effect of N-Allylnormorphine upon the Development of Tolerance to Morphine in the Albino Rat. Peter D. Orahovats, Charles A. Winter and Edward G. Lehman.....	413
LV. Actions and Addiction Liability of the Dithienylbutenylamines in Man. Harris Isbell and H. F. Fraser.....	417
LVI. Pharmacologic Observations on Two Quaternary Ammonium Germicides. J. K. Finnegan, P. S. Larson, R. Blackwell Smith, Jr., H. B. Haag, J. Douglas Reid and M. L. Dreyfuss.....	422
LVII. The Metabolism of Ethyl Alcohol. E. K. Marshall, Jr. and William F. Fritz.....	431
LVIII. On the Metabolic Fate of Isoniazid. Hettie B. Hughes.....	444
LIX. The Effect of Sympathomimetic Amines on Arterial Plasma Potassium and Cardiac Rhythm in Anesthetized Dogs. G. S. O'Brien, Quillian R. Murphy, Jr. and W. J. Meek.....	453
LX. The Effect of the Ethylenediamine Component of Aminophylline on the Duration of Reversal of Cardiac Failure. Harold F. Hardman, Albert C. Yard and Maynard B. Chenoweth.....	461
LXI. Index.....	467