

## CONTENTS

### NUMBER 1, MAY, 1952

I. Anesthesia. XXXVII. The Anesthetic Action of Isopropyl Vinyl Ether. John C. Krantz, Jr., C. Jelleff Carr, Go Lu and Mary Jane Fassel.....	1
II. Synthetic Curare-Like Agents Which are Reversible by Tensilon. Lowell O. Randall.....	7
III. The Conversion of Decamethonium-Like Agents to Tensilon-Reversible Agents by Aromatic Substituents. Lowell O. Randall.....	16
IV. Effect of Adrenocortical Steroids and Adrenocorticotrophic Hormone on Electroshock Seizure Threshold. Dixon M. Woodbury.....	27
V. Effects of Chronic Anticonvulsant Administration upon Cortisone-Induced Brain Hyperexcitability. E. Fingl, L. J. Olsen, B. W. Harding, A. T. Cockett and L. S. Goodman.....	37
VI. Effects of Chronic Administration of Anticonvulsant Drugs, Alone and in Combination with Desoxycorticosterone, on Electroshock Seizure Threshold and Tissue Electrolytes. Dixon M. Woodbury.....	46
VII. The Vascular Action of Natural Serotonin, 5- and 7-Hydroxytryptamine and Tryptamine. Irvine H. Page.....	58
VIII. The Action of Barbiturate on the Carbohydrate Metabolism of the Isolated Rat Diaphragm. David E. Haft and I. Arthur Mirsky.....	74
IX. The Pharmacology of 5-Hydroxytryptamine (Serotonin). W. A. Freyburger, B. E. Graham, M. M. Rapport, P. H. Seay, W. M. Govier, O. F. Swoap and M. J. Vander Brook.....	80
X. The Site of Cardiovascular Action of Veratrum Derivatives. Edward D. Swiss and George L. Maisson.....	87
XI. The Effect of Aluminum Hydroxide Gel (Amphojel) and Hydrated Alumina Powder on the Intensity and Duration of Action of Anticholinergic Drugs. Joseph Seifter, Jerome M. Glassman, Albert J. Begany and Edward M. Gore.....	96
XII. The Pressor Effect of Histamine after Autonomic Ganglionic Blockade. Irwin H. Slater and Peter E. Dresel.....	101

### NUMBER 2, JUNE, 1952

XIII. Analgesic Potency and Side Action Liability in Man of Heptazone, WIN 1161-2, 6-Methyl Dihydromorphine, Metopon, Levo-Isomethadone and Pentobarbital Sodium, as a Further Effort to Refine Methods of Evaluation of Analgesic Drugs. Arthur S. Keats and Henry K. Beecher.....	109
XIV. Synthetic Oxytocics. II. Pharmacology of 3-(Piperidyl-(N)-Methyl)-Indoles and Related Compounds. D. K. de Jongh and E. G. van Proosdij-Hartzema.....	130
XV. Dose-Response Curves for the Blood Pressure Effects Produced by Graded Doses of 1-Epinephrine, a Commercial Epinephrine, and 1-Norepinephrine. Robert V. Brown.....	139
XVI. A Comparative Pharmacological and Toxicological Study of Organic Phosphate-Anticholinesterase Compounds. John P. Frawley, Ernest C. Hagan and O. Garth Fitzhugh.....	156
XVII. Homatropine Methylbromide: A Pharmacological Reevaluation. Raymond L. Cahen and Kristen Tvede.....	166
XVIII. The Relationship of Force of Contraction to High-Energy Phosphate in Heart Muscle. Theodore Greiner.....	178
XIX. A Comparison of Preparations of NPH Insulin. A. H. Lacey.....	196

XX. The Action of Angelica Lactones on the Toxicity of Digitoxin and on the Cardiac Irregularities Produced by Digitoxin and Barium. I. T. Beck and J. E. Boulding.....	203
XXI. Analgesic Activity and Toxic Effects of Acetylmethadol Isomers in Man. Arthur S. Keats and Henry K. Beecher.....	210
XXII. The Ultraviolet Spectra and Neurophysiological Effects of "Veratrine" Alkaloids. Abraham M. Shanes.....	216
XXIII. Mytolon and Related Compounds as Antagonists of Acetylcholine on the Heart of Venus Mercenaria. F. P. Luduena and Theodore G. Brown, Jr....	232
XXIV. The Effect of Subnauseant Doses of Syrup of Ipecac on Gastric Acidity and Activity. Wilbur D. Hagamen, Charles M. Berry and Stewart Wolf....	240
XXV. The Effect of Chloramphenicol and Certain Other Drugs on the Oxidation of Aromatic Amino Acids by a Strain of <i>Pseudomonas Aeruginosa</i> . Frederick Bernheim and William E. DeTurk.....	246

## NUMBER 3, JULY, 1952

XXVI. The Inhibition of the Hydrolysis of Procaine and 2-Chloroprocaine in Plasma by Neostigmine and Dimethylcarbamate of (2-Hydroxy-5-Phenylbenzyl) Trimethylammonium Bromide (Ro 2-683). Francis F. Foldes and Manuel H. Aven.....	253
XXVII. The Hydrolysis of Procaine and 2-Chloroprocaine in Spinal Fluid. Francis F. Foldes and Manuel H. Aven.....	259
XXVIII. Phenol Studies XII. The Percutaneous and Alimentary Absorption of Phenol by Rabbits with Recommendations for the Removal of Phenol from the Alimentary Tract or Skin of Persons Suffering Exposure. Wm. B. Deichmann, Sylvan Witherup and Marjorie Dierker.....	265
XXIX. The Gastrointestinal Non-Absorption of Sodium Cellulose Sulfate Labeled with S <sup>35</sup> . Paul E. Morrow, Harold C. Hodge, W. F. Neuman, Elliott A. Maynard, Harvey J. Blanchet, Jr., David W. Fassett, R. E. Birk and Spencer Manrodt.....	273
XXX. The Effect of Perfusion Pressure on Papaverine Vasodilation in Rabbit Hearts. Claude V. Winder and Richard W. Thomas.....	282
XXXI. Quinidine Activity of Thephorin. William Schallek.....	291
XXXII. The Distribution, Metabolism, and Excretion of D-Tubocurarine Chloride and Related Compounds in Man and Other Animals. David Fielding Marsh.....	299
XXXIII. Mechanism of Veratrum-Induced Emesis in the Cat. Herbert L. Borison and Virgil F. Fairbanks.....	317
XXXIV. Autonomic Blocking Compounds. I. Ganglion Blocking Action of Some Aliphatic Quaternary Ammonium Salts, Related Alkyl Piperidinium Salts and 1,2,3,4-Tetrahydroisoquinolinium Salts. Martin M. Winbury..	326
XXXV. Toxicological Studies of a New Mercurial Diuretic: Mercumatilin (Cumer-tilin). Harold Blumberg, Albert Schlesinger and Samuel M. Gordon....	336
XXXVI. The Effect of Amphetamine and Related Compounds on Maze Performance of White Rats. Paul L. Ewing, Bernice M. Moore and William T. Moore..	343
XXXVII. The Relationship between Cholinesterase Inhibition and Ganglionic Transmission. Kazuya Kamijo and George B. Koelle.....	349
XXXVIII. The Effect of Cortisone, Desoxycorticosterone, Adrenocorticotrophic Hormone and Diphenhydramine upon the Responses of Albino Mice to General Anesthetics. Charles A. Winter and Lars Flataker.....	358
XXXIX. Effects of Liver Injury and Nephrectomy on the Anticonvulsant Activity of Oxazolidine-2, 4-Diones. Ewart A. Swinyard, Donald O. Schiffman and Louis S. Goodman.....	365
XL. Studies on Cell Enzyme Systems. VII. Luciferase Inactivation by Alcohols. Aurin M. Chase.....	371

## NUMBER 4, AUGUST, 1952

XLI. The Influence of Enzyme Inhibitors on the Action of Epinephrine on the Frog's Heart. Sydney Ellis. . . . .	381
XLII. Mode of Action of Antagonists to Curare. Cedric M. Smith, Hyman L. Cohen, Edward W. Pelikan and Klaus R. Unna. . . . .	391
XLIII. Depression of Transmission through Sympathetic Ganglia during General Anesthesia. Martin G. Larrabee and Duncan A. Holaday. . . . .	400
XLIV. Bioassay of Veratrum Viride. I. Effect of Vergitryl on Carotid Sinus Pressor Reflex. Bernard Rubin and John C. Burke. . . . .	409
XLV. The Role of Body Fat in Limiting the Duration of Action of Thiopental. Bernard B. Brodie, Eleonore Bernstein and Lester C. Mark. . . . .	421
XLVI. The Role of the Liver in the Metabolic Disposition of Isopropyl Alcohol. Fred W. Ellis. . . . .	427
XLVII. Nature of the Hypotensive Action of a Thiophanium Derivative (Ro 2-2222) in Dogs. J. W. McCubbin and Irvine H. Page. . . . .	437
XLVIII. The Effects of Progesterone and Some Related Steroids on the Contraction of Isolated Myocardium. Bernard Rubin and William T. Salter. . . . .	443
XLIX. Central Depressant and Anticonvulsive Properties of Glycerol Ethers Isomeric with Mephesisin. F. M. Berger. . . . .	450
L. Actions and Addiction Liabilities of Alpha-Acetylmethadols in Man. H. F. Fraser and Harris Isbell. . . . .	458
LI. Effects of Regitine (C-7337) upon the Blood Flow Responses to Epinephrine in the Innervated Hind Limb of the Dog. Gwen Roberts, Alfred W. Richardson and Harold D. Green. . . . .	466
LII. Effect of a Cardiac Glycoside on the Contraction and the Energy-Rich Phosphate Content of the Heart Poisoned with Dinitrophenol. Albert Wollenberger and Max L. Karsh. . . . .	477
LIII. Pharmacological Properties of Benzazoles. I. Relationship between Structure and Paralyzing Action. Edward F. Domino, Klaus R. Unna and James Kerwin. . . . .	486
LIV. Comparative Effects of 20 Mgm. of Morphine Sulfate on Non-Addicts and Former Morphine Addicts. H. F. Fraser and Harris Isbell. . . . .	498
LV. Index. . . . .	503