CONTENTS

NUMBER 1, JANUARY, 1953


II. Studies on the Relationship of Metabolic Fate and Hormonal Effects of d,l-Methadone to the Development of Drug Tolerance. Chen-Yi Sung, E. Leong Way and Kenneth G. Scott .................................................. 12

III. The Action of Cardiac Glycosides on the Refractory Period of Heart Tissues. Rafael Mendez and Carlos Mendez ................................................... 24


V. l-Arginine Monohydrochloride as an Acid-Forming Salt. Ranita Aiman and Douglas S. Riggs ................................................................. 54

VI. The Antimalarial Properties of 2,4-Diamino-5-p-Chlorophenyl-6-Ethylpyrimidine (Daraprim). L. H. Schmidt and Clara S. Genther .................. 61

VII. The Pharmacological Properties of 2,4-Diamino-5-p-Chlorophenyl-6-Ethylpyrimidine (Daraprim). L. H. Schmidt, Hettie B. Hughes and Ida G. Schmidt ........................................... 92

NUMBER 2, FEBRUARY, 1953

VIII. Seasonal Variation in Response to Ouabain. K. K. Chen, Francis G. Henderson and E. Brown Robbins .................................................. 131

IX. The Effect of Procaine Amide on Excitability, Refractoriness and Conduction in the Mammalian Heart. Harry Woske, Julius Belford, F. N. Fastier and Chandler McC. Brooks ........................................... 134

X. Cardiovascular Stimulation and Gut Depression During High Spinal Anesthesia in Dogs Without Pre-Medication. James A. Richardson and Robert P. Walton .................................................. 141

XI. Action of Analgesic Drugs (Morphine, Meperidine, Methadone) on Rotary Nystagmus in the Rabbit. V. G. Longo and L. Napolitano .................. 154

XII. The Effects of Ovarian Extracts upon Activity of the Guinea Pig Uterus In Situ. Lloyd C. Felton, Edward H. Frieden and Harold H. Bryant ........ 160

XIII. Effects of Frequency of Stimulation on the Paralyzing Dose of Neuro-muscular Blocking Agents. James B. Preston and E. F. Van Maanen .... 165


XV. Distribution and Excretion of Radioactive Thallium in the Chick Embryo, Rat, and Man. Ralph K. Barelley, Wendell C. Peacock and David A. Karnofsky .................................................. 178

XVI. Binding of Dihydro-β-Erythroidine by a Constituent of Blood Plasma. L. B. Kirschner and W. E. Stone .................................................. 188

XVII. Ammonium Ion Content and Electrical Activity of the Brain During the Preconvulsive Phases Induced by Various Convulsants. Clara Torda .... 197

XVIII. Effects of Epinephrine and Norepinephrine on Electrically Induced Seizures. Bruno Minz and Edward F. Domino ........................................... 204

XIX. Absorption, Distribution and Excretion of Isoniazid (Nydrazid) in the Dog. Bernard Rubin and John C. Burke ........................................... 219

CONTENTS

XXI. Chemotherapeutic Activity of Nucleic Acids and High Protein Diets Against the Infection Caused by the MM Virus in Mice. Thomas B. O’Dell, Harold N. Wright and Raymond N. Bieter ................................................................. 232

XXII. The Absorption and Excretion of Dromoran. A. L. Fisher and J. P. Long .............................................. 241

XXIII. The Analeptic Action of 1-n-Butylamino-3-p-Toluidino-2-Propanol (W181) in Mephenesin Paralysis. F. M. Berger ................................................................. 250

XXIV. Isolation of an Epoxide Metabolite from Fat Tissues of Dogs Fed Heptachlor. Bernard Davidow and Jack L. Radomski ................................................................. 259

XXV. The Metabolite of Heptachlor, its Estimation, Storage, and Toxicity. Jack L. Radomski and Bernard Davidow ................................................................. 266


XXVII. Responses to Sympathomimetic Amines after Dibenamine Blockade. Mark Nickerson and George M. Nomaguchi ................................................................. 284

XXVIII. Blockade of Responses to Epinephrine and Norepinephrine by Dibenamine Congeners. Mark Nickerson, James W. Henry and George M. Nomaguchi ................................................................. 300

XXIX. A Preliminary Study of the Anthelmintic Activity of Cyanine Dye S715 in Dogs. Donald R. Hales and Arnold D. Welch ................................................................. 310

XXX. Antioxyurid Activity, Toxicology and Pathology in Laboratory Animals of a Cyanine Dye [6-Dimethylamino-2-(2,5-Dimethyl-1-Phenyl-3-Pyrryl(Vinyl)]-1-Methyl-Quinolinium Chloride]. J. K. Weston, P. E. Thompson, J. W. Reinertson, R. A. Fisken and T. F. Reutner ................................................................. 315

XXXI. Effect of Mercurial Diuretics upon the Respiration of the Rat Heart and Kidney. IV. The Inhibition of the Succinic Dehydrogenase Activity of the Rat Heart by Mercuhydrin and the Protective Action of Some Sulphydryl Compounds. Arthur Ruskin and Belle Ruskin ................................................................. 325

XXXII. Comparative Physiological Actions of Some Alkane-Diamines. Gordon A. Alles, Charles H. Ellis and Mildred A. Redemann ................................................................. 332

XXXIII. Site of Action of 2,2-Diethyl 1,3-Propanediol (Prenderol) on the Central Nervous System. W. H. Funderburk and K. R. Unna ................................................................. 344


XXXV. The Distribution and In Vivo Rate of Metabolism of Thiopental. F. E. Shideman, Thelma C. Gould, Wallace D. Winters, Robert C. Peterson and Warren K. Wilner ................................................................. 368

XXXVI. Anti-Ejaculatory Effect of Sympatholytic, Gangliolytic and Spasmolytic Drugs. S. Loewe and Susanne L. Puttuck ................................................................. 379

XXXVII. Synthetic Analgesics. II. Dithienylbutenyl- and Dithienylbutylamines. Nathan B. Eddy and Dorothy Leimbach ................................................................. 385

XXXVIII. Protective Effect of Thiouracil and Dibenamine Against Renal Injury Due to Choline Deficiency: Influence of Endocrine and Autonomic Systems. James H. Baxter ................................................................. 394

NUMBER 4, APRIL, 1953

XXXIX. The Pharmacology of N-Benzyl-β-Chloropropionamide (Hibicon), a New Anticonvulsant. B. K. Harned, Raymond W. Cunningham, Mary C. Clark, Carolyn H. Hine, Margaret Meaney Kane, Frank H. Smith, Jr., R. E. Vessey, H. N. Yuda and F. W. Zabransky ................................................................. 403

XL. Nicotinolytic Drugs. II. Action of Adrenergic Blocking Agents on Nicotine-Induced Tremors. Raymond L. Cahen, Joan M. Thomas and Kristin M. Tvede ................................................................. 424
<table>
<thead>
<tr>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLI. The Effects of Thiopental and Pentobarbital on Voluntary Muscle. Charles P. Kraatz, Melvyn I. Gluckman and H. L. Shields</td>
</tr>
<tr>
<td>XLII. Pharmacology of Vinyl Ethynyl Carbinols—A New Class of Central Nervous System Depressants. S. Y. P'an, J. F. Gardocki, M. Harfenist and A. Bavley</td>
</tr>
<tr>
<td>XLV. Correlation between Pharmacological Responses to Benzoylcholine, Methacholine and Acetylcholine and Activity of Cholinesterases. Theodore Koppanyi, Alexander G. Karczmar and Guy C. Sheats</td>
</tr>
<tr>
<td>XLVII. The Fate of Caffeine in Man and a Method for Its Estimation in Biological Material. Julius Axelrod and Jules Reichenthal</td>
</tr>
<tr>
<td>XLVIII. Actions and Addiction Liabilities of Dromoran Derivatives in Man. Harris Isbell and H. F. Fraser</td>
</tr>
<tr>
<td>XLIX. Index</td>
</tr>
</tbody>
</table>