

CONTENTS OF VOLUME 142

No. 1, OCTOBER 1963

Effects of Acetylsalicylic Acid on the Edema and Hyperesthesia of the Experimentally Inflamed Rat's Paw. THOMAS M. GILFOIL, INESE KLAVINS AND LEONARD GRUMBACH.....	1
Toxicity and Catecholamine Releasing Actions of <i>d</i> - and <i>l</i> -Amphetamine in Isolated and Aggregated Mice. KENNETH E. MOORE.....	6
Influence of Imipramine and Related Psychoactive Agents on the Effect of 5-Hydroxytryptamine and Catecholamines on the Cat Nictitating Membrane. E. B. SIGG, L. SOFFER AND L. GYERMEK.....	13
The Effect of Acetylcholine on the Neuromuscular Transmission in the Frog. SERGIO CIANI AND CHARLES EDWARDS.....	21
The Influence of Hemicholinium No. 3 and Vagal Stimulation on Acetylcholine Content of Rabbit Atria. B. LEWARTOWSKI AND K. BIELECKI.....	24
Local Cholinergic-Adrenergic Interaction: Mechanism for the Biphasic Chronotropic Response to Nerve Stimulation. FLOYD E. LEADERS.....	31
Actions and Interactions of Norepinephrine, Tyramine and Cocaine on Aortic Strips of Rabbit and Left Atria of Guinea Pig and Cat. ROBERT F. FURCHGOTT, S. M. KIRPEKAR, MARIA RIEKER AND ALBERT SCHWAB.....	39
Effect of Cocaine, Phenoxybenzamine and Phentolamine on the Catecholamine Output from Spleen and Adrenal Medulla. S. M. KIRPEKAR AND PETER CERVONI.....	59
Depletion and Recovery of Catecholamines and Adenosine Triphosphate of Rat Adrenal Medulla after Reserpine Treatment. S. M. KIRPEKAR, PETER CERVONI AND DANIEL COURI.....	71
Microcirculation: Effects of Guanethidine and Reserpine. ARTHUR M. ZIMMERMAN AND LAURENCE S. HARRIS.....	76
Vascular Dilator Action of <i>t</i> -Butylamine and Its Dependence on Sympathetic Tone. THOMAS BAUM AND DONALD R. BENNETT.....	83
The Effect of Dipyridamole on Retrograde Pressure in Obstructed Coronary Arteries. THOMAS N. JAMES AND REGINALD A. NADEAU.....	93
The Response of Isolated Strips of Cat Spleen to Sympathomimetic Drugs and Their Antagonists. ROBERT K. BICKERTON.....	99
A Pteridine Diuretic, Wy-3654. MARVIN E. ROSENTHALE AND C. GORDON VAN ARMAN.....	111
The Metabolic Fate of Chlortetracycline and Some Comparisons with Other Tetracyclines. H. J. EISNER AND R. J. WULF.....	122
An Azasterol That Induces Hypocholesterolemia in Rats. R. E. RANNEY, D. L. COOK, W. E. HAMBOURGER AND R. E. COUNSELL.....	132

No. 2, NOVEMBER 1963

Influence of Isoproterenol and 1-(2',4'-Dichlorophenyl)-2- <i>t</i> -Butylaminoethanol (DCB) on Free Fatty Acid Release and Glucose Metabolism in Adipose Tissue. WILLIAM C. LOVE, LUCINDA CARR AND JAMES ASHMORE.....	137
The Influence of Drug-Tissue Interactions on the Inhibition of Monoamine Oxidase by Pheniprazine and Iproniazid. A. HORITA.....	141
Comparison of Some Pharmacologic Effects of Certain 6-Substituted Dopamine Derivatives with Reserpine, Guanethidine and Metaraminol. CLEMENT A. STONE, JOHN M. STAVORSKI, CARL T. LUDDEN, HERBERT C. WENGER, CHARLES A. ROSS, JAMES A. TOTARO AND CURT C. PORTER.....	147
Norepinephrine Synthesis and Release <i>in vivo</i> Mediated by 3,4-Dihydroxyphenethylamine. WILLIAM H. HARRISON, MORTON LEVITT AND SIDNEY UDENFRIEND.....	157
Relaxation of the Nictitating Membrane of the Spinal Cat by Sympathomimetic Amines. C. B. SMITH.....	163
Induction of Automaticity by Catecholamines in Isolated Cat Atrial Appendages. GERALD E. GROBLEWSKI AND VICTOR DIStEFANO.....	171

The Adrenergic Receptive Mechanism of the Rat Uterus. BERNARD LEVY AND SAL TOZZI.....	178
Effects of Acetylcholine on the Intestinal Vasculature of the Dog. DENNIS L. BOATMAN AND MICHAEL J. BRODY.....	185
Action of Muscarine on the Superior Cervical Ganglion of the Cat. INDRAVADAN SANGHVI, SATOSHI MURAYAMA, CEDRIC M. SMITH AND KLAUS R. UNNA.....	192
Acetylcholine Release at the Neuromuscular Junction. ARTHUR HULL HAYES, JR. AND WALTER F. RIKER, JR.	200
Studies on the Cardiovascular Effects of Synthetic Oxytocin. JIRO NAKANO AND ROBERT DARRYL FISHER.....	206
Some Effects of Cassaine on Cardiovascular Dynamics in the Dog. J. B. KAHN, JR., R. A. VAN ATTA, JR. AND G. L. JOHNSON.....	215
Distribution and Excretion of Ouabain-H ³ and Dihydro-Ouabain-H ³ in Rats and Sheep. S. DUTTA, B. H. MARKS AND C. R. SMITH.....	223
The Effect of Chlorothiazide on the Excretion of Uric Acid and Electrolytes by the Chicken. THOMAS R. CASTLES AND HAROLD E. WILLIAMSON.....	231
Pyrogenic Effect of Purified Staphylococcal Enterotoxin. WESLEY G. CLARK AND HERBERT L. BORISON.....	237
<i>p</i> -Aminosalicylic Acid Induced Prolongation of Hexobarbital Sleeping Time. LARRY A. ROGERS, G. A. ALCANTARA AND JAMES R. FOUTS.....	242
Tritium-Labeled Nalorphine: Its CNS Distribution and Biological Fate in Dogs. C. C. HUG, JR. AND L. A. WOODS.....	248
The Metabolism of FD&C Red No. 1. II. The Fate of 2,5- <i>para</i> -Xylidine and 2,6- <i>meta</i> -Xylidine in Rats and Observations on the Toxicity of Xylidine Isomers. HAROLD V. LINDSTROM, WALTER H. HANSEN, ARTHUR A. NELSON AND O. GARTH FITZHUGH..	257
The Effect of pH Upon the Antitumor Activity and Delayed Lethal Toxicity of Nitrogen Mustard. LAURENS P. WHITE AND ELIZABETH F. CLAFLIN.....	265

No. 3, DECEMBER 1963

Effects of Hydroquinone and of Hypophysectomy Upon the Pigment Cells of Black Goldfish. WALTER CHAVIN.....	275
Subcellular Localization of Catecholamines in Tissues of the Rat. LINCOLN T. POTTER AND JULIUS AXELROD.....	291
Properties of Norepinephrine Storage Particles of the Rat Heart. LINCOLN T. POTTER AND JULIUS AXELROD.....	299
Metabolism of <i>dl</i> -Norepinephrine-7-H ³ in Rabbits Tolerant to <i>l</i> -Norepinephrine. META KAPLAN, STANLEY GITLOW AND ALFRED A. SMITH.....	306
The Metabolism of Drugs by Liver Microsomes from Alloxan-Diabetic Rats: Long Term Diabetes. ROBERT L. DIXON, LARRY G. HART, LARRY A. ROGERS AND JAMES R. FOUTS.....	312
Mechanism of the Potassium Mobilizing Action of Epinephrine and Glucagon. SYDNEY ELLIS AND SIBYL B. BECKETT.....	318
Blocking of the <i>in vivo</i> Effects of Bradykinin and Kallidin with Carboxypeptidase B. ERVIN G. ERDÖS, J. RICHARD WOHLER AND MACY I. LEVINE.....	327
Time Course of Changes in Sensitivity after Denervation of the Nictitating Membrane of the Spinal Cat. U. TRENDELENBURG.....	335
Enhancement by Reserpine and α -Methyl Dopa of the Effects of <i>d</i> -Amphetamine Upon the Locomotor Activity of Mice. CHARLES B. SMITH.....	343
The Enhancement of Salicylate Teratogenicity by Maternal Immobilization in the Rat. ALLEN S. GOLDMAN AND WILLIAM C. YAKOVAC.....	351
The Gastric Antiulcer Activity of Chlorbenzoxamine, a Non-Anticholinergic Piperazine Compound. IRA W. HILLYARD AND ROBERT P. GRANDY.....	358
Index, Volume 142, October-December 1963.....	365