CONTENTS OF VOLUME 144

No. 1, APRIL 1964

Distribution and Metabolism of Mescaline-C ¹⁴ in the Cat Brain. N. NEFF, G. V. Rossi, G. D. Chase and J. L. Rabinowitz	1
Use of Hindlimb Reflexes of the Chronic Spinal Dog for Comparing Analgesics. W. R. Martin, C. G. Eades, H. F. Fraser and A. Wikler	
The Analgesic Efficacy and Respiratory Effects in Man of a Benzomorphan "Narcotic	
Antagonist." Louis Lasagna, Thomas J. De Kornfeld and John W. Pearson Effects of Amphetamine, Chlorpromazine, Pentobarbital, and Ethanol on Operant	12
Response Duration. Bernard Weiss and Victor G. Laties	17
LLOYD J. ROTH	24 37
The Role of Endogenous Norepinephrine in the Toxicity of d-Amphetamine in Aggre-	
gated Mice. Kenneth E. Moore Effect of Epinephrine and Norepinephrine on Excitability of Central Nervous System	45
of Mice. EWART A. SWINYARD, FRANCISCO C. B. BOSON AND LOUIS S. GOODMAN Adrenergic Mechanisms and the Outflow of Aqueous Humor from the Rabbit Eye.	52
Kenneth E. Eakins and Helena M. T. Eakins	60
pathetic Nervous System. W.R. Burack and P.R. Draskóczy	66
Nelson Eble	76
The Chronotropic Action of Tyramine Studied by Direct Perfusion of the Sinus Node Through Its Artery. Thomas N. James and Reginald A. Nadeau	83
Hemodynamic Effects of Tyramine. Concetta Harakal, Roger W. Sevy and Ben F. Rusy	89
The Modification of Digitalis Intoxication by Excluding Adrenergic Influences on the Heart. David Erlij and Rafael Mendez	97
Cardiac Muscle. Joseph V. Levy and Victor Richards	
The Positive Inotropic Activity of Tetraethylammonium Ions and Their Effect on	110
Radiocalcium Movement. W. G. NAYLER AND P. F. EMERYSustained Hypertension in Dogs Following Chronic Administration of Ganglionic	
Blocking Agents. Efrain G. Pardo and Horacio Vidrio	124
K. McShane, J. W. Constantine and S. Miknius	131
ine Muscles. Ira Rosenblum and Arthur A. Stein	138
No. 2, May 1964	
Comparative Bioassays and the Role of Parallelism. Jerome Cornfield The Disposition of Catecholamines in the Rat Uterus and the Effect of Drugs and Hormones. Richard J. Wurtman, Julius Axelrod and Lincoln T. Potter	
Alpha and Beta Adrenergic Receptor Mechanisms in the Systemic Venous Bed.	
GERARD A. KAISER, JOHN ROSS, JR. AND EUGENE BRAUNWALD	
(B.W. 61-43). J. J. Burns, K. I. Colville, L. A. Lindsay and R. A. Salvador Inhibition of Lipid Mobilization by N-Isopropyl Methoxamine (B.W. 61-43). R. A. Salvador, K. I. Colville, S. A. April and J. J. Burns	

Reserpine as an Antagonist of Tyramine. D. R. Varma, R. A. Gillis and B. G. Benfey	181
Effects of Reserpine and Chlorpromazine on the Vasomotor Center in the Medulla Oblongata of the Dog. HSUEH-HWA WANG, TATSUYA KANAI, SHIRLEY MARKEE AND S. C. WANG	196
Antagonism of Certain Effects of Catecholamine-Depleting Agents by Antidepressant and Related Drugs. CLEMENT A. STONE, CURT C. PORTER, JOHN M. STAVORSKI,	100
CARL T. LUDDEN AND JAMES A. TOTARO. The Action of Ouabain on Cardiac Muscle Treated With Reserpine and Dichloroiso-	196
•	205
	214
(U-558). R. K. BICKERTON, R. F. DAILEY, W. T. ROCKHOLD AND R. H. BULLER The Stabilizing Actions of Adenosine Triphosphate and Related Nucleotides on Calcium-Deficient Nerve. MICHIKO OKAMOTO, AMIR ASKARI AND ALBERT S. KUPER-	
MAN	22 9
	23 6
SCHWEIGERDT AND HAROLD E. HIMWICH Possible Sites of Action of the Respiratory Stimulant Effect of Doxapram Hydrochlo-	
ride. HITOSHI KATO AND JOSEPH P. BUCKLEY	260
dence for the Formation of Codeine From Morphine in Rats and Dogs. CHRISTIAN ELISON AND HENRY W. ELLIOTT. Potentiation of Diuretic Effects of Methyl Xanthines and Pyrimidines by Carbonic	265
Anhydrase Inhibitors. Bohdan R. Nechay	276
RICHARD M. TAYLOR AND ALAN A. RUBIN	284
No. 3, June 1964	
Effect of Curare Concentration, Temperature and Potassium Ion Concentration on the Rate of Uptake of a Neuromuscular Blocking Agent Labeled With Radioactive Iodine. D. B. Taylor, R. Creese and N. W. Scholes	293
Some Effects of Soman on Neuromuscular Function and on Acetylcholinesterase in the Rat. T. A. Loomis and B. Salafsky	
The Effect of Topically Applied Substances on the Blood-Brain Barrier. S. I. RAPO- PORT.	310
Effects of Cortisol and Diphenylhydantoin on Spinal Cord Convulsions in Developing Rats. Antonia Vernadakis and Dixon M. Woodbury	316
The Action of Desmethylimipramine in Counteracting Sedation and Cholinergic Effects of Reserpine-Like Drugs. Fridolin Sulser, Marcel H. Bickel and	
BERNARD B. BRODIE	321
in the Rat. ROBERT MEGIRIAN. The Relative Analgesic and Respiratory Effects of Phenazocine and Morphine. RAY-	
MOND W. HOUDE, STANLEY L. WALLENSTEIN, J. WELDON BELLVILLE, ADA ROGERS AND LOURDES AGUTO ESCARRAGA	227
Antagonism of Morphine-Induced Respiratory Depression and Analgesia and Inhibition of Narcotic N-Demethylation in vitro by N-Substituted Analogues of l-3-Hy-	301
droxymorphinan and by N-Allyl-Normorphine. A. Rubin, H. I. Chernov, J. W.	246
MILLER AND G. J. MANNERING. Meperidine N-Demethylase Activity in Rat Liver. Doris H. Clouet	
The Effect of Altering Liver Microsomal N-Demethylase Activity on the Development of Tolerance to Morphine in Rats. Doris H. Clouet and M. Ratner	
of Tolerance to Morphine in Rats. Dords H. Clouet and M. Rather	362
The Fate of C14-Histamine in Animal Tissues. Solomon H. SNYDER, JULIUS AXELROD AND HUGO BAUER.	

In vitro Histamine Release from Rat Peritoneal Cells by Beta-Mercaptoethylamine and Cystamine. Gale E. Demaree, Roy L. Mundy, Melvin H. Heiffer and David P. Jacobus.	380
The Presence of Norepinephrine and 5-Hydroxytryptamine in Vesicles from Disrupted	•••
Nerve-Ending Particles. E. W. MAYNERT, ROBERTO LEVI AND A. J. D.	
	385
The Hydroxylation of Tyramine in the Isolated Canine Heart. C. A. CHIDSEY, G.	
A. Kaiser and B. Lehr	393
On the Mechanism of Heart Norepinephrine Depletion by Tyramine, Guanethidine	
and Reserpine. Ronald Kuntzman and Martin M. Jacobson	399
Mode of Action of Impramine and 5-(3'-Methylaminopropyliden)-Dibenzo[a,e]-	
Cyclohepta[1,3,5]Trien Hydrochloride (Ro 4-6011), a New Antidepressant Drug, on Peripheral Adrenergic Mechanisms. H. Thoenen, A. Huerlimann and W.	
Haefely	405
Adrenocortical Suppression: Blood Pressure Responses Under Hemorrhagic and Surgi-	
cal Stress. Charles A. Papacostas, Myron L. Kanis and Jasper P. Reed	415
The Influence of the Cardiac Glycoside Ouabain on the Intraocular Pressure and Dy-	
namics of the Rabbit and the Cat. MAURICE E. LANGHAM AND KENNETH E.	
Eakins	421
Teratogenic Interaction of Chemical Agents in the Rat. James G. Wilson	429
Index, Volume 144, April-June 1964	437