CONTENTS OF VOLUME 170

No. 1, November 1969

Parasympathetic Responses in Hyperthyroid Rats. ALAN FRAZER AND MARILYN E.	,
Hess. The Effects of Thyroxine on Rat Heart Adenosine 3',5'-Monophosphate, Phosphoryl-	1
ase b Kinase and Phosphorylase a Activity. Alan Frazer, Marilyn E. Hess and Joseph Shanfeld	10
The Effect of Ouabain on Sodium- and Potassium-Activated Adenosine Triphosphatase from the Hearts of Several Mammalian Species. Tai Akera, Fran S. Larsen	
AND THEODORE M. BRODY	17
Interactions of Acetylcholine and Epinephrine on Contractility, Glycogen and Phos-	
phorylase Activity of Isolated Mammalian Hearts. JACOB A. BLUKOO-ALLOTEY,	27
NORMA H. VINCENT AND SIDNEY ELLIS	41
M. I. Gluckman	37
The Mechanism of Action of Guanethidine on the Isolated Mammalian Heart. S. Plu-	01
CHINO, A. J. MUSKUS AND R. PLUCHINO	44
Chemical Sympathectomy of the Cat with 6-Hydroxydopamine. G. HAEUSLER, W.	
HAEFELY AND H. THOENEN	50
Mechanism of the Sympathomimetic Action of Cyclohexylamine and Hexylamine: Release of Catecholamines from Nerve Endings. Andrew S. Wechsler, Stephen E.	
Epstein and Gerald Glick	62
Blockade of Cardiac Effects of Isoproterenol by 4-(2-Hydroxy-3-Isopropylaminopro-	
poxy)-Acetanilide (ICI 50,172). PITAMBAR SOMANI AND ATUL R. LADDU	72
Antiarrhythmic Actions of 4-(2-Hydroxy-3-Isopropylaminopropoxy)-Acetanilide (ICI 50,172) in the Dog Heart-Lung Preparation. Atul R. Laddu and Pitambar So-	
MANI	79
Action of Diphenylhydantoin on Rhythmicity and Contractility of Cultured Embry-	• •
onic Heart Cells. Morris Kleinfeld, Otto Schade and Frances Gruen	84
Pharmacologic Isolation of Sinoatrial Activity from Effects of Neural Excitation by	
Use of Tetrodotoxin. Koroku Hashimoto and Shigetoshi Chiba	91
Effects of Chronic Pretreatment with Pargyline upon Responses of the Atrial Pace-	
maker and of Left Atrial Strips of Guinea Pigs to Tyramine, Mephentermine, d-Am-	05
phetamine and Adrenergic Nerve Stimulation. M. J. Antonaccio and C. B. Smith Cardiac and Peripheral Effects of Dopamine Infusion in Endotoxin Shock in the Dog.	97
LINDA L. SHANBOUR AND LERNER B. HINSHAW	108
On the Measurement of the Affinity of Partial Agonists for Receptors. D. R. WAUD	
Effects of Potassium, Acetylcholine, Carbachol and Histamine on Na ²² Movements in	
Ileal Smooth Muscle. George B. Weiss	123
The Relation of Changes in Sodium Transport to Protein-Bound Disulfide and Sulfhy-	
dryl Groups in the Toad Bladder Epithelium. A. Farah, N. D. Yamodis and N.	
Pessah	132
Drug Metabolism in Hypothermia. Uptake, Metabolism and Biliary Excretion of Pen-	
tobarbital-2-C ¹⁴ by the Isolated, Perfused Rat Liver in Hypothermia and Euthermia. SARAH C. KALSER, MARGARET P. KELLY, ELEANORE B. FORBES AND MARY	
M. RANDOLPH	145
The Effect of Hexafluorenium on the Neuromuscular Refractory Period of Anesthetized	
Man. Ralph A. Epstein and Stephen H. Jackson	153
Differential Effects of Cholinergic Agonists on Self-Stimulation and Escape Behavior.	
MARIANNE E. OLDS AND EDWARD F. DOMINO	157
Factors Influencing the Incidence of Reversible Lens Opacities in Solitary and Aggre-	
gated Mice. Marta Weinstock and A. S. Marshall	168
Studies on the Relative Insensitivity of the Immature Rat to the Neurotoxic Effects of 1,1,1-Trichloro-2,2-Bis(p-Chlorophenyl)Ethane (DDT). GARY L. HENDERSON	
1,1,1-1 ricmore-2,2-Dis(p-Cmorepheny)/Ethane (DD1). GARY L. HENDERSON	173

iv contents

No. 2, DECEMBER 1969

Some Effects of Pentobarbital and Strychnine on Transmission through the Ventrobasal Complex of the Cat Thalamus. Eleanor E. Hurlbrink and Eugene S.	101
BOYD	-
MAN AND EDWARD F. DOMINO	
J. INGENITO AND LEONARD PROCITA	199
James P. Barrett and Leonard Procita	210
ficity in Different Areas. JOSEPH T. COYLE AND SOLOMON H. SNYDER	
E. Costa, N. H. Neff, C. T. Wang and S. H. Ngai	
tem. M. F. Sugrue and P. A. Shore Effect of False Transmitters on Norepinephrine Synthesis. Irwin J. Kopin, Virginia K. Weise and Göran C. Sedvall	
An Enzymatic Assay for Octopamine and Other β-Hydroxylated Phenylethylamines. Perry B. Molinoff, Lewis Landsberg and Julius Axelrod	
_ ·	
Separation of the Effects of Alpha and Beta Adrenergic Receptor Stimulation on Taenia Coli. N. W. Weisbrodt, C. C. Hug, Jr. and P. Bass	
Effect of Propranolol on Epinephrine-Induced Changes in Cardiac Rhythm and Arterial Potassium in Dogs Anesthetized with Cyclopropane. H. P. Gutgesell, J. V. Temte and Q. R. Murphy	281
• • • • • • • • • • • • • • • • •	287
Depression by Reflexes of the Pressor and Cardiotoxic Responses to Ouabain. Richard A. Gillis, John A. Quest and Frank G. Standaert	
Some Drug Effects on Calcium Movements in Aortic Strips. Patricia M. Hudgins. The Effect of Ouabain on Calcium in Subcellular Fractions of Cardiac Muscle. Denise Chipperfield and Winifred G. Nayler	
Factors That Regulate Ouabain-H ² Accumulation by the Isolated Guinea-Pig Heart. S. Dutta and B. H. Marks	
Simultaneous Assay of Angiotensin I and II and Determination of Converting Enzyme Activity. Jack D. Barrett and Mohinder P. Sambhi	
Angiotensin Blocking Actions of Guancydine. J. R. Cummings, A. N. Welter, J. L. Grace, Jr. and W. D. Gray	
	347
The Metabolism of R(+)- and RS-Pentobarbital. Keith H. Palmer, Mary S. Fowler, Monroe E. Wall, L. Sue Rhodes, William J. Waddell and Billy Baggett	355
The Ocular Effects of Repeated Dermal Applications of Dimethyl Sulfoxide to Dogs and Monkeys. Emil R. Smith, Marcus M. Mason and Eugene Epstein	364
The Effects of N-γ-Phenylpropyl-N-Benzyloxy Acetamide (W-1372) on Experimental Atherosclerosis and Hypercholesteremia. F. M. Berger, J. F. Douglas, B. J.	
Ludwig and S. Margolin. Index, Volume 170, November-December 1969	