## CONTENTS OF VOLUME 159

## No. 1, JANUARY 1968

Effects of Adrenergic Blocking Agents on Lipid Mobilization from Canine Subcutaneous Adipose Tissue after Sympathetic Nerve Stimulation. BERTIL FRED-	
HOLM AND SUNE ROSELL	1
Stimulated Glycogenolysis. J. Kypson, L. Triner and G. G. Nahas	8 18
THOMAS  Effects of Adrenergic Blocking Agents on Epinephrine- and 3',5'-AMP-Induced Responses in the Perfused Rat Liver. Gretajo Northeop	22
Catechol-O-Methyl Transferase and Monoamine Oxidase Activities in the Heart and Liver of the Embryonic and Developing Chick. Louis J. Ignarro and F. E. Shideman	29
Appearance and Concentrations of Catecholamines and Their Biosynthesis in the Em-	43
bryonic and Developing Chick. Louis J. Ignarro and F. E. Shideman	38
Uptake and Subcellular Distribution. Louis J. Ignarro and F. E. Shideman  The Requirement of Sympathetic Innervation for the Active Transport of Norepi-	49
nephrine by the Heart. Louis J. Ignarbo and F. E. Shideman.  The Uptake of l- and d-Norepinephrine by the Isolated Perfused Rabbit Heart in Relation to the Stereospecificity of the Sensitizing Action of Cocaine. P. R.	59
Draskóczy and U. Trendelenburg	66
and upon Tissue Catecholamines. Deane N. Calvert and Bert K. G. Lum	74
Myocardial Alpha Adrenergic Receptors and Their Role in the Production of a Positive Inotropic Effect by Sympathomimetic Agents. WILLIAM C. GOVIER	82
Differential Effects of Calcium Removal upon Vascular Smooth Muscle Contraction Induced by Norepinephrine, Histamine and Potassium. Patricia M. Hudgins and George B. Weiss	91
Sensitivity Changes in the Dog Heart to Norepinephrine, Calcium and Aminophylline Resulting from Pretreatment with Reserpine. David P. Westfall and William	
W. Fleming Stimulation of the Cat Stellate Ganglion by Angiotensin. James W. Aiken and Ernest	98
REIT  Prevention of Ventricular Fibrillation during Induced Hypothermia by N,N-Diiso- propyl-N'-Isoamyl-N'-Diethylaminoethylurea (P-286). C. RICHARD BENNETT, HAR-	107
OLD H. SMOOKLER AND JOSEPH P. BUCKLEY On Diffusion from a Point Source. D. R. WAUD	
Electromechanical and Pharmacomechanical Coupling in Vascular Smooth Muscle.  AVRIL V. SOMLYO AND ANDREW P. SOMLYO	129
Electrophysiologic Effects of 3-(p-Chlorophenyl)-(2-Imadazolin-2-yl-methyl)-1,2,3,-4-Tetrahydro-1-Benzepine Hydrochloride (SU-13197), a New Antiarrhythmic Agent.	1 40
YOSHIO WATANABE AND LEONARD S. DREIFUS Studies on Veratrum Alkaloids. XLII. The Action of Some Esters of Protoverine with Acetic Acid on Mammalian Skeletal Muscle. Pramod K. Gujral and Werner	
FLACKE  Modification of the Fatty Acid-Induced Thrombocytopenia by Anticoagulants and	153
Compounds Which Inhibit in Vitro Platelet Aggregation. Gerhard Zbinden Some Characteristics of Hepatic Microsomal Systems Which Metabolize Aminopyrine in the Rat and Rabbit. Theodore E. Gram, John T. Wilson and James R.	163
Fours	172
Species and Sex Variation in the Hepatic Metabolism of H*-Digoxin in Vitro. G. L. LAGE AND J. L. SPRATT	182

iv contents

Hypotensive Metabolite Production and Sequential Metabolism of N,N-Diallylmelamine in Rats, Dogs and Man. G. R. Zins, D. E. Emmert and R. A. Walk  The Role of Fibrin in the Inflammatory Response to Carrageenin. Edward H. Wise-	194
MAN AND YI-HAN CHANG  The Effect of 6-Mercaptopurine on the Turnover of I <sup>181</sup> -Gamma Globulin and I <sup>186</sup> -Al-	206
bumin in Rabbits. Peter D. Mott, R. Dean Wochner and Sheldon M. Wolff	
Hallucinogenic Compounds and Swimming Response. Edward T. Uyeno	
Influence of Drugs, Implanted into the Hypothalamus, on the Water Consumption of	
Rats. Felix Bergmann, Abraham Zerachia, Moshe Chaimovitz and Yehuda	
GUTMAN	
Studies on the Hyperglycemic Effects of Nonthiazide Diuretics. John K. Wales,	
Alison Grant and Frederick W. Wolff	229
A Technique for Accurate Measurement of Moderate Degrees of Alcohol Intoxication	
in Small Animals. R. J. Gibbins, H. Kalant and A. E. Le Blanc	. <b>236</b>
No. 2, February 1968	
Effects of Some Autonomic Drugs on Circular Esophageal Smooth Muscle. J.	
CHRISTENSEN AND E. E. DANIEL	
The Effects of Caffeine on Free Fatty Acids and Blood Coagulation Parameters of	
Dogs. Samuel Bellet, Leonard J. Feinberg, Herschel Sandberg and Masami	
Hirabayashi	
Effects of Hemicholinium on Choline Uptake in the Isolated Perfused Rabbit Heart.	
G. G. BUTERBAUGH AND J. L. SPRATT	255
An Electron Microscopic Analysis of Large Granular Synaptic Vesicles of the Brain	
in Relation to Monoamine Content. FLOYD E. BLOOM AND GEORGE K. ACHAJANIAN	261
The Rate of Norepinephrine Synthesis Measured in Vivo during Short Intervals;	
Influence of Adrenergic Nerve Impulse Activity. Göran C. Sedvall, Virginia	
K. Weise and Irwin J. Kopin	
Uptake of Normetanephrine and Norepinephrine by Cocaine-Treated Rat Heart. M. A.	
SIMMONDS AND C. N. GILLIS	
Cholinergic Actions in the Sinoatrial Node of the Reserpine-Pretreated Rabbit.	
Noboru Toda	290
The Influence of Sympathetic Stimulation on Transmembrane Potentials in the S-A	
Node. Noboru Toda and Kiro Shimamoto	
The Pulmonary and Systemic Hemodynamic Effects Produced by Meperidine and	
Hydroxyzine. Stanley J. Goldberg, Leonard M. Linde, Peter G. Gaal and David	000
SACHS	306
The Effect of Reserpine on the Metabolism of Tritiated Digoxin in the Dog and in Man. Frank I. Marcus, Josef Pavlovich, Muriel Lullin and Gesta Kapadia	214
Subcellular Distribution of Digoxin-H <sup>3</sup> in Isolated Guinea-Pig and Rat Hearts. S.	314
DUTTA, S. GOSWAMI, J. O. LINDOWER AND B. H. MARKS	324
The Effect of Ryanodine on Peripheral Vascular Resistance in the Anesthetized Cat.	
Evidence for a Centrally-Induced Vasoconstriction. Leonard Procita, Barbara	
JEAN STIBLER, ROBERT L. MAROIS AND PERCY LINDGREN	
Ganglion Cell Depolarization and Transmission Block by ACh: Independent Events.	
W. K. Riker	345
The Effects of Local Anesthetics on Motor Nerve Terminals. Jose E. Usubiaga and	
Frank Standaert	353
Effect of Phenobarbital and Other Drugs on the Metabolism and Uterotropic Action	
of Estradiol-17β and Estrone. W. Levin, R. M. Welch and A. H. Conney	362
Metabolism of Diethylpropion-1-C14 Hydrochloride by the Human. E. C. Schreiber,	
B. H. Min, A. V. Zeiger and J. F. Lang	372
Urinary Excretion of Primidone and Its Metabolites in Rabbits. J. M. Fujimoto,	
W. H. MASON AND M. MURPHY	379
Drug Metabolism in Hypothermia. Uptake, Metabolism and Excretion of S <sup>86</sup> -Sulfanila-	
mide by the Isolated, Perfused Rat Liver. SARAH C. KALSER, ELAINE J. KELVING-	
TON AND MARY M. RANDOLPH	389

CONTENTS V