CONTENTS OF VOLUME 204

No. 1, January 1978

The Effects of Subhypnotic Doses of Ethanol on Regional Catecholamine Turnover. N. G. Bacopoulos, R. K. Bhatnagar and L. S. Van Orden III	1
Effect of General Anesthetics on Handling- and Decapitation-induced Increases in Sympathoadrenal Discharge. MICHAEL F. ROIZEN, JONATHAN MOSS, DAVID P. HENRY, VIRGINIA WEISE AND IRWIN	
J. Kopin	11
The Effect of Serotonin Precursors on α- and γ-Motoneuron Activity. Norbert R. Myslinski and	10
EDMUND G. ANDERSON	19
BLOCKADE OF para-Methoxyamphetamine-induced Serotonergic Effects by Chlorimipramine. Liang- Fu Tseng, R. Adron Harris and Horace H. Loh	27
Effects of Intravenous and Intraventricular Prostaglandin $E_{\scriptscriptstyle 1}$ on Thermoregulatory Responses in	
Rabbits. M. T. Lin	39
The Effect of Pancuronium and Gallamine on Muscarinic Transmission in the Superior Cervical	
Ganglion. Robert W. Gardier, Estelle J. Tsevdos and Daniel B. Jackson	46
Sensitivities of the Isolated Ileal Longitudinal Smooth Muscle-Myenteric Plexus and Hypogastric	
Nerve-Vas Deferens of the Guinea Pig After Chronic Morphine Pellet Implantation. Stephen	E 4
M. JOHNSON, DAVID P. WESTFALL, STEPHEN A. HOWARD AND WILLIAM W. FLEMING	54
Correlation of Urinary Excretion of Methadone Metabolites with Methadone Metabolism and Analgesia in the Rat. Shean-Jang Liu, David B. Evans and Richard I. H. Wang	67
The Effects of Acute and Chronic Phencyclidine on Schedule-controlled Behavior in the Squirrel	01
Monkey. L. D. Chait and Robert L. Balster	77
Conflict Behavior in the Squirrel Monkey: Effects of Chlordiazepoxide, Diazepam and N-Desmethyl-	• •
diazepam. Jerry Sepinwall, Fred S. Grodsky and Leonard Cook	88
Effects of d-Amphetamine, Monomethoxyamphetamines and Hallucinogens on Schedule-controlled	
Behavior. R. Adron Harris, Diane Snell and Horace H. Loh	103
$ Effects \ of \ Intravenous \ Cocaine, \ Diethylpropion, \ d\text{-}Amphetamine \ and \ Perphenazine \ on \ Responding $	
Maintained by Food Delivery and Shock Avoidance in Rhesus Monkeys. Chris E. Johanson	118
Phenylbutazone-induced Decrease in Renal Blood Flow. HAROLD E. WILLIAMSON, GARY R. GAFFNEY,	
WILLIAM A. BOURLAND, DONNA B. FARLEY AND DIANNA E. VAN ORDEN	130
Distribution of Intracortical Renal Blood Flow Induced by Bumetanide in the Dog. Kenneth L.	105
Duchin and Duncan E. Hutcheon	135
Comparison of the Effects of Aminosugar Cardiac Glycosides with Ouabain and Digoxin on Na ⁺ , K ⁺ -Adenosine Triphosphatase and Cardiac Contractile Force. ROBERT W. CALDWELL AND CLINTON	
B. Nash	141
Effects of Inosine on the Metabolism and Performance of Isolated Oxygenated and Hypoxic Rabbit	
Hearts. Jindrich Kypson and Gershon Hait	149
Electrophysiological Effects of Bretylium Tosylate on Subendocardial Purkinje Fibers from Infarcted	
Canine Hearts. Rene Cardinal and Betty I. Sasyniuk	159
Effects of 2,4,6-Triaminopyrimidine on the Electromechanical Properties of Guinea-Pig	
Myocardium. Martin Frank and Lynda L. Flom	175
Histamine Enhances Anaphylactic Histamine Release from Bovine Lung and Leukocytes via Hista-	
mine H ₂ -Receptor. Martin C. Holroyde and Peter Eyre	183
Hydantoin Drugs Inhibit Polymerization of Pure Microtubular Protein. ARCHIE A. MACKINNEY,	100
RAMLAL S. VYAS AND DONALD WALKER	189
cytes. Archie A. MacKinney, Jr., Ramlal Vyas and Kenneth Powers	195
Chloramphenical Glucuronyl Transferase: Assay, Ontogeny and Inducibility. W. Scott Young, III	100
AND PAUL S. LIETMAN	203
The Effect of Hydralazine and Other Drugs on the Kinetics of Procainamide Acetylation by Rat Liver	
and Kidney N-Acetyltransferase. D. W. SCHNECK, J. S. SPROUSE, A. H. HAYES, JR., AND R. A.	
Shiroff	212
The Quantitative Disposition of Procainamide and N-Acetylprocainamide in the Rat. D. W.	
Schneck, K. Grove, F. O. Dewitt, R. A. Shiroff and A. H. Yayes, Jr.	219
Blockade of Tissue Uptake of the Antineoplastic Agent, Doxorubicin. John Somberg, Norman	

Cagin, Barrie Levitt, Helene Bounous, Pedda Ready, Daniel Leonard and Constantine
Anagnostopoulos Effect of Sulfhydryl-binding Reagents on Islet Tissue Permeability: Protection and Reversal by D-Glucose and Phlorizin. S. J. Cooperstein and Dudley Watkins Pharmacokinetics and Effects on Fecal Blood Loss of a Controlled Release Potassium Chloride Tablet. Richard L. Tannen and Angel Cordano
No. 2, February 1978
Relation of the Gonadal Hormones to Growth Hormone Actions on Hepatic Drug Metabolism in Rats. R. E. Kramer, J. W. Greiner, R. C. Rumbaugh, T. D. Sweeney and H. D. Colby Serum Protein Binding and Pharmacokinetics of Valproate in Man, Dog, Rat and Mouse. Wolfgang Löscher.
Increased Clearance of Digoxin in Rabbits during Repeated Administration. Hermann R. Ochs, Gunther Bodem, Gerd Bales, David J. Greenblatt and Thomas W. Smith. SQ 14,225 (d-3-Mercapto-2-Methylpropanoyl-L-Proline), a Novel Orally Active Inhibitor of Angiotensin I-Converting Enzyme. Bernard Rubin, Robert J. Laffan, Dorothy G. Kotler, Eugene H. O'Keefe, Donald A. Demaio and Morton E. Goldberg.
Antihypertensive Activity in Rats of SQ 14,225, an Orally Active Inhibitor of Angiotensin I-Converting Enzyme. Robert J. Laffan, Morton E. Goldberg, John P. High, Thomas R. Schaeffer, Margaret H. Waugh and Bernard Rubin
Effect of Lung Transit on Systemic Depressor Responses to Arachidonic Acid and Prostacyclin in Dogs. H. M. Waldman, I. Alter, P. A. Kot, J. C. Rose and P. W. Ramwell
The Effect of the Combination of Quinidine and Propranolol upon Atrial and Ventricular Automaticity in Dogs. Don W. Korte, Jr. and Clinton B. Nash
Effects of Lidocaine on Slow Response and Depressed Fast Response Action Potentials of Canine Cardiac Purkinje Fibers. F. James Brennan, Paul F. Cranefield and Andrew L. Wit Denervation-Induced Changes in Electrophysiological Parameters of the Smooth Muscle of the Guinea-Pig and Rat Vas Deferens. Katsutoshi Goto, David P. Westfall and William W.
FLEMING Effects of Histamine on the Lower Esophageal Sphincter in Vivo: Evidence for Action at Three Different Sites. Satish Rattan and Raj K. Goyal
Potentiation by Dipyridamole of the Inhibition of Guinea-Pig Ileum Twitch Response Caused by Adenine Derivatives. HIDEKI MORITOKI, TOSHIMI KANBE, MICHIYO MARUOKA, MASAYUKI OHARA
AND YUKIO ISHIDA Purinergic Inhibition of Adrenergic Transmission in Rabbit Blood Vessels. Che Su The Effect of L-Dopa on Peripheral Sympathetic Nerve Function: Role of Presynaptic Doapmine Receptors. Mustafa F. Lokhandwala and Joseph P. Buckley
Effects of L-Dopa, GPA 1734 and Other Agents on Basement Membrane Biosynthesis. MICHAEL E. MARAGOUDAKIS, HELEN J. KALINSKY AND JAMES WASVARY
Enhanced Catecholamine Synthesis in Isolated Rat Superior Cervical Ganglia Caused by Nerve Stimulation: Dissociation between Ganglionic Transmission and Catecholamine Synthesis. MITCHELL I. STEINBERG AND CHARLES E. KELLER
The Effect of Haloperidol on the Ionic Currents in the Voltage-clamped Node of Ranvier. T. L. Pencek, C. L. Schauf and F. A. Davis
Role of Lever Responding and Water Presentation in Altering Rat Brain Catecholamine Metabolism. M. W. EMMETT-OGLESBY, A. J. LEWY, L. H. ALBERT AND L. S. SEIDEN
5-Hydroxytryptamine. J. C. Winter
RECKY, BARBARA NEWMAN, JENNIFER SUN AND WILLIAM H. BAILY
Effects of Elabutoxins on Neuromuscular Transmission in Frog Skeletal Muscles. E. Kato, K. Kubaand K. Koketsu
Hyperthermic Effects of Supracortically Applied Prostaglandins after Systemic Pretreatment with Inhibitors of Prostaglandin Transport and Synthesis. M. C. WALLENSTEIN AND L. Z. BITO Effect of Televisian and Prostaglandin Metabolism. B. Noonparium V. G.

Stygles, J. B. Hook and R. Z. Gussin	461
The Effect of Diatrizoate Salts on Vasopressin-induced Volume Flow across the Excised Toad Urinary Bladder. John T. Gatzy and Gilbert H. Mudge	469
Continuous Intravenous Naltrexone Effects on Morphine Self-administration in Rhesus Monkeys. Stephen E. Harrigan and David A. Downs	481
A Comparison of the Analgesic Effect of Intramuscular Nalbuphine and Morphine in Patients with Postoperative Pain. WILLIAM T. BEAVER AND GRACE A. FEISE	487
No. 3, March 1978	
Physical Dependence to Barbital Compared to Pentobarbital. I. "Chronically Equivalent" Dosing	
Method. Norman R. Boisse and Michiko Okamoto	497
R. Boisse and Michiko Okamoto	507
R. Boisse and Michiko Okamoto	514
Kinetics. Norman R. Boisse and Michiko Okamoto	526
and Physical Dependence. Chakwan Siew and Dora B. Goldstain	541
Weid The Reinforcing Properites of Procaine and d-Amphetamine Compared in Rhesus Monkeys. D. M. Hammerbeck and C. L. Mitchell.	547
Behavioral and Electrophysiological Effects of Peptides Related to Lipotropin (β-LPH). David de Wied, Bela Bohus, Jan M. van Ree and Ivan Urban	558 570
Effects of Carbamazepine on Muscle Spindle Discharges. Norman Hershkowitz and Arthur Raines	581
Effects of Catecholamine Depleting Drugs and d-Amphetamine on Self-Stimulation of the Substantia	001
Nigra and Locus Coeruleus. Barrett R. Cooper, Richard J. Konkol and George R. Breese [3H]Dihydroergocryptine Binding to Alpha Adrenergic Receptors in Canine Aortic Membranes. Bie	592
Shung Tsai and Robert J. Lefkowitz	606
GRUNEWALD AND CHARLES O. RUTLEDGE.	615
Modification of the Effects of Histamine and Norepinephrine on the Sinoatrial Node Pacemaker by Potassium and Calcium. Roberto Levi and Achilles J. Pappano	625
one-hydrochloride After Coronary Flow Reduction in Pigs. PIETER D. VERDOUW, HENK C. SCHAMHARDT, WILLEM J. REMME AND JAN WILLEM DE JONG	634
Effects of Some Coronary Vasodilator Drugs on Collateral Hemodynamics After Chronic Myocardial Ischemia in the Anethetized Dog: Appropriate or Inappropriate Redistribution? P. Lacroix, Ph.	
LINEE AND J. B. LE POLLES	
Iris Smooth Musice. Rashid A. Akhtar and Ata A. Abdel-Latif	
Enhancement of Choline of the Induction of Adrenal Tyrosine Hydroxylase by Phenoxybenzamine, 6-Hydroxydopamine, Insulin or Exposure to Cold. ISMAIL H. ULUS, MICHAEL C. SCALLY AND RICHARD J. WURTMAN	676
Renal Gluconeogenesis in Clofibrate-Treated Rats. CARL R. MACKERER AND JANET R. HAETTINGER.	683
Renal Tubular Transport of Saccharin. Robin S. Goldstein, Jerry B. Hook and Jenny T. Bond Urinary Anthracycline Metabolites from Mice Treated with Adriamycin and N-Trifluoroacetylandria-	690
mycin-14-Valerate. Mervyn Israel, William J. Pegg and Peter M. Wilkinson	696
Ascorbic Acid and Cytochrome P-450. L. E. RIKANS, C. R. SMITH AND V. G. ZANNONI	702
GERARD FELDMANN AND JEAN-PIERRE BENHAMOU	714
Errata	724 725