CONTENTS OF VOLUME 215

No. 1, October 1980

Hydrolysis of Diacetylmorphine (Heroin) by Human Serum Cholinesterase. ORSONA LOCKRIDGE, NANCY MOTTERSHAW-JACKSON, HARRY W. ECKBORN AND BERT N. LA DU

Effects of Drugs on Behavior in Rats Maintained on Morphine, Methadone or Pentobarbital. D. E. McMillan, W. T. McGivney AND W. C. HARDWICK

The Effect of Arginine Vasopressin and Its Analog on the Synthesis of Prostaglandin E_2 by Rat Renal Medullary Interstitial Cells in Culture. THOMAS R. BECK, AVIV HASSID AND MICHAEL J. DUNN

The Effects of Cocaine and Metanephrine on the Cardiac Responses to Norepinephrine Infusions. YUKITAKA MASUDA, YASUO MATSUDA AND MATTHEW N. LEVY

Effects of Lanthanum and Trifluoperazine on [^{125}I]Calmodulin Binding to Rat Striatal Particulates. YUEN-SUM LAU AND MARGARET E. GREGY

Tolerance and Dispersion of Tetrahydrocannabinol in Man. C. ANTHONY HUNT AND REESE T. JONES

The Effects of Methadone on Respiration and Ventilation in Pygmy Goats. RICHARD C. NEAL AND GEORGE D. OLSEN

Presynaptic and Postsynaptic Neuromodulatory Effects of a Specific Inhibitor of Acetylcholinesterase. RICHARD T. BOIS, RICK G. HUMMEL, WOLF D. Dettbarn AND MICHAEL B. LASKOWSKI


The Role of Norepinephrine in the Regulation of Fluid Absorption in the Rat Proximal Tubule. Y. L. CHAN

The Effect of Estradiol-17β Treatment on the Metabolism and Biliary Excretion of Phenytoin in the Isolated Perfused Rat Liver and in Vivo. MARY VORE AND CHRISTOPHER MONTGOMERY


Live Protein Synthesis and Catabolism in Mirex-Pretreated Rats with Enlarging Livers. KEITH M. ROBINSON AND JAMES D. YARBROUGH

Oxazepam Kinetics: Effects of Age and Sex. DAVID J. GREENBLATT, MARCIA DIVOLL, JEROLD S. HARMATZ AND RICHARD I. SHADER

Differential Effects of the Anticonvulsants, Phenobarbital, Ethosuximide and Carbamazepine on Neuromuscular Transmission. MARC T. ALDERIDGE AND BRAH A. TRUMMER

The in Vitro Formation of Glutathione Conjugates with the Microsomal Pulmonary Bronchiolar Alkylation Agent Cytotoxin: 1,4-Deoxymann. ALAN R. BUCKFITT AND MICHAEL R. BOYD

Mechanism of Captopril-Induced Renal Vasodilatation in Anesthetized Dogs after Nonhypotensive Hemorrhage. P. C. WONG AND B. G. ZIMMERMANN

Transit Patterns of Marker Compounds Given by Segmented Retrograde Intrabiliary Injection (SRII) in the Isolated in Situ Perfused Rat Liver. TOSHIKO IMAMURA AND JAMES M. FUJIMOTO

Site of Action of Dehydrocholate in Inhibiting the Biliary Excretion of Morphine in the Isolated in Situ Perfused Rat Liver. TOSHIKO IMAMURA AND JAMES M. FUJIMOTO

A New Mode of Action of SKF 525-A on Morphine Disposition Studied by Segmented Retrograde Intrabiliary Injection (SRII) in the Isolated in Situ Perfused Rat Liver. TOSHIKO IMAMURA AND JAMES M. FUJIMOTO

Behavioral and Biochemical Effects of the Antidepressant Bupropion (Wellbutrin): Evidence for Selective Blockade of Dopamine Uptake in Vivo. BARRETT R. COOPER, TERRA J. HESTER AND ROBERT A. MAXWELL

Amphetamine-Haloperidol Interactions on Striatal and Mesolimbic Tyrosine Hydroxylase Activity and Dopamine Metabolism. RONALD KUCZKINSKI

Potentiation of Responses to Adrenergic Nerve Stimulation in Isolated Rat Atria during Chronic Tricyclic Antidepressant Administration. FULTON T. CREWS AND CHARLES B. SMITH

Pimozide: Delayed Onset of Action at Rat Striatal Pre- and Postsynaptic Dopamine Receptors. BRIAN A. McMILLEN, DWIGHT C. GERMAN, MANJIT K. SANGHERA, WORTHY WARMARC AND PARKBURST A. SHORE

The Pulmonary Vascular Effects of Three Prostaglandin I_2 Analogs in Conscious Newborn Lambs. JAMES E. LOCK, FLAVIO COCEANI, FRANCIS HAMILTON, ALISON GREENAWAY-COATES AND PETER M. OLLEY

Ibuprofen Improves Survival from Endotoxic Shock in the Rat. W. C. WISE, J. A. COOK, T. ELLE AND P. V. HALUSHA

Effect of Plasma Protein Binding on Quinidine Kinetics in the Rabbit. THEODORE W. GUENTERT AND SVEIN OIE


Characterization of Alpha-1 Adrenergic Receptors in the Heart Using [^{125}I]HJWB101: Effect of 6-Hydroxypoline Treatment. SHIZUO YAMADA, HENRY I. YAMAMURA AND WILLIAM R. ROESKE

Cephalosporin Nephrotoxicity. Transport, Cytotoxicity and Mitochondrial Toxicity of Cephaloglycin. BRUCE M. TUNE AND DORIS FRAVERT


Changes in Cardiac Glycose Activity Produced by Aminosugar Addition. L. SCOTT COOK, ROBERT W. CALDWELL AND CLINTON B. NASH

Stereospecific Radioimmunoassay of alpha-l-Acetylmandehal (LAAM). KIP L. MCGILLARD AND GEORGE D. OLSEN

Regulation of Calcium Fluxes in Rat Pancreatic Islets: The Role of K* Conductance. A. HERCHUELZ, N. THONNART, A.
Studies on the Effect of Chronic Oral Administration of Minoxidil and Hydralazine on Vascular Function in Spontaneously Hypertensive Rats. Stanley Greenberg

Prednisolone Clearance at Steady State in Dogs. Felix J. Frey, Brigitte M. Frey, Andreas Greither and Leslie Z. Benet

Disposition of Enflurane in Obese Patients. Matthew S. Miller, A. Jay Gandolfi, Robert W. Vaughan and John B. Bentley

The Cyclic Nucleotide of the Rat Superior Cervical Ganglion. Linda F. Quenzer, Brian A. Patterson and Robert L. Volle

Phenytin, Renal Function and Renin Release. Stephen D. Migdal, Gary L. Slick, Daoud Abu-Hamdan and Franklin D. McDonald

Modulatory Effect of Brain Acetylcholine on Reflex-Induced Bradycardia and Tachycardia in Conscious Rats. A. P. Caputi, F. Rossi, K. Carney and H. E. Breezeoff

Effects of Castration and Chronic Morphine Administration on Liver Alcohol Dehydrogenase and the Metabolism of Ethanol in the Male Sprague-Dawley Rat. Theodore J. Cicero, Jerrold D. Bernand and Karin Newman


Effects of Transmembrane Potential on Oscillatory Afterpotentials Induced by Acetylsphathomidin in Canine Ventricular Tissues. Gregory R. Ferrier

Maturation of Sympathetic Neurotransmission in the Rat Heart. VI. The Effect of Neonatal Central Catecholaminergic Lesions. Randy Deskin, Elliott Mills, William L. Whitmore, Frederic J. Seidler and Theodore A. Slotkin

Muscarnic Antagonism of the Effects of a Phosphodiesterase Inhibitor (Methylisobutylxanthine) in Embryonic Chick Ventricile. Rebecca L. Biegon, Paul M. Epstein and Achilles J. Pappano

Possible Generation of Potent Vasocontracting Substance from Prostaglandin Endoperoxide Analogs, Human Platelets Mixture. Shoji Shibata, W. K. W. Ho and U. Ichida

Dissociation of Varied Actions of Norepinephrine on 45Ca Uptake and Release at Different Sites in Rabbit Aortic Smooth Muscle. Hideaki Karaki and George B. Weiss

Stereoselectivity of the Stimulus Effects of Morphine and Cyclazocine in the Squirrel Monkey. Janice J. Teal and Stephen G. Holtzman

Potentiative Effects of Alpha Agonist Sympathomimetic Amines on Vasoconstriction by Adrenergic Nerve Stimulation. Che Su

Comparative Study of the Electrophenochromepathy and Behavioral Effects of I-α-Acetylmethadol (LAAM), Two of Its Metabolites and Morphine and Methadone in the Rat. Scott E. Lukas, J. Edward Moreton and Naim Khazan


Differing Electrophysiologic Effects of Slow Response Inhibiting Agents Manganese and Verapamil on Ischemic, Infarcted and Normal Tissue in Situ. Joel Kupermann and Robert Cohen

Metabolism of Benzidine by a Prostaglandin-Mediated Process in Renal Inner Medullary Slices. Neville S. Rapp, Terry V. Zenser, Wendy W. Brown and Berand B. Davis

Effect of the Angiotensin Converting Enzyme Inhibitor, Captopril, on NaCl Appetite of Rats. Melvin J. Freely

Increase of Neurotensin Content Elicited by Neuroleptics in Nucleus Accumbens. S. Govoni, J. S. Hong, H.-Y. T. Yang and E. Costa

Inhibition of Depressor Cardiovascular Reflexes by a Derivative of γ-Aminobutyric Acid (GABA) and by General Anesthetics
with Suspected GABA-Mimetic Effects. Peter M. Lalley
Response and Sensitivity of Female Guinea-Pig Respiratory Tissues to Agonists during Ontogenesis. Charles Brine, Pamela G. Duncan, Malinda Miedezens and James S. Douglas
Cyclic Nucleotides and Contractions/Relaxations in Airway Muscle: H1 and H2 Agonists and Antagonists. Pamela G. Duncan, Charles Brine, Richard L. Adolphson and James S. Douglas
Mechanism of Renal Tubular Secretion of Norepinephrine in the Rabbit. Rodney W. Lappe, David P. Henry and Lynn R. Willis
A Comparative Study of the Pharmacological Properties of the Positive Potential Recorded from the Superior Cervical Ganglia of Several Species. N. J. Dun and A. G. Karczew
The Presence of the Type A Form of Monoamine Oxidase within Nigrostriatal Dopamine-Containing Neurons. Keith T. Demarest, David J. Smith and Albert J. Azzaro
Hydrocortisone and Human Lymphocytes: Increases in Cyclic Adenosine 3'-5'-Monophosphate and Potentiation of Adenylate Cyclase-Activating Agents. Gianni Marone, Lawrence M. Lichtenstein and Marshall Plaut
The Ionic Mechanism of Prolongation of Action Potential Duration of Cardiac Ventricular Muscle by Anthopleurin-A and Its Relationship to the Inotropic Effect. Keitaro Hashimoto, Reiko Ochi, Kobu Hashimoto, Jun Iiou and Yuji Miura
Presynaptic Effects of 2-Aminotetralins on Striatal Dopaminergic Neurons. Irene S. Hoffman, Robert J. Naylor and Luigi X. Cereduzzo
Antidopaminergic Properties of Yohimbine. Bernard Scatton, Branimir Zivkovic and Jaroslav Dedek
Effects of Acebutolol and Other Structurally Related Beta Adrenergic Blockers on Transmembrane Action Potential in Guinea-Pig Papillary Muscles. Hideaki Sada and Takashi Ban
Does Histamine Influence Vasodilation Caused by Prolonged Arteriovenous Occlusion or Heavy Exercise? Alan Daniel and Carl R. Honig

No. 3, December 1980

The Effects of Chronic Methylenebis Treatment on Growth and Endocrine Function in the Developing Rat. George H. Gereely, Jr. and J. S. Kizer
Histaminergic Mechanisms Involved in the Centrally Mediated Effects of Ouabain. Randall L. Tackett and J. E. Holl
Different Mechanisms of Action of Acetazolamide and Parathyroid Hormone on Proximal Tubular Absorption of Fluid and 5,5-Dimethyl-2,4-Oxazolidinedione. Y. L. Chan
Transport of Choline Out of the Cranial Cerebrospinal Fluid Spaces of the Rabbit. Robert C. Lanman and Lewis S. Schanker
Sodium Dependence of the Positive Inotropic Effect of Cardiac Glycosides. Jay R. Wiggins and Juan Jose Bentolila
Phenytoin Inhibition of Cyclic Guanosine 3'-5'-Monophosphate (cGMP) Accumulation in Neuroblastoma Cells by Calcium Channel Blockade. Robert E. Study
Regulation of Serotonin (5-HT) Receptors Labeled with [3H]Spiroperidol by Chronic Treatment with the Antidepressant Amitriptyline. Stephen J. Peroutka and Solomon H. Snyder
Three Day Pleural Inflammation: A New Model to Detect Drug Effects on Macrophage Accumulation. N. Ackerman, A. Tomolonis, L. Miram, J. Kheifets, S. Martinez and A. Carter
Maturation of Sympathetic Neurotransmission in the Rat Heart. V. Development of Baroreceptor Control of Sympathetic Tone. Jorge Bartolome, Elliott Mills, Christopher Law and Theodore A. Slotkin
Induction of Aryl Hydrocarbon Hydroxylase Activity in the Rat Prostate Glands by 2,3,7,8-Tetrachlorodibenz-p-Dioxin. I. P. Lee and K. Suzuki
Electrophysiological Evidence for Presynaptic Actions of Phencyclidine on Noradrenergic Transmission in Rat Cerebellum. JwaharLah Marwaha, Michael R. Palmer, Donald J. Woodward, Barry J. Hoffer and Robert Freedman
Estrogen-Induced Alterations in the Autonomic Responses of the Rabbit Urinary Bladder. Robert M. Levin, Frances S. Shoffer and Alan J. Wein
Alterations in Pentobarbital and Meperidine Pharmacokinetics Induced by Bile Duct Ligation in the Rat. Robert G. Kno dell, David A. Brooks, Richard C. Allen and Walter T. Kyner
Sites of Antinociceptive Action of Systemically Injected Morphine: Involvement of Supraspinal Loci as Revealed by Intracere-
Contents

broventricular Injection of Naloxone. Joseph C. Yeung and Thomas A. Rudy 626

Multiplicative Interaction between Narcotic Agonisms Expressed at Spinal and Supraspinal Sites of Antinociceptive Action as Revealed by Concurrent Intrathecal and Intracerebroventricular Injections of Morphine. Joseph C. Yeung and Thomas A. Rudy 633

Stereospecific Assay for (−)- and (±)-Propranolol in Human and Dog Plasma. Bernie Silver and Sidney Riegelman 643


Consistent Unmasking of Dopamine-Induced Dilation of the Canine Femoral Vasculature Bed. Jay J. Listinsky, Jai D. Kohli and Leon I. Goldberg 662

Comparative Studies of the Pharmacological Effects of the d- and l-Isomers of Codeine. Thuy T. Chau and Louis S. Harris 668

Effect of Carbonic Anhydrase Inhibitors and Acidosis on Choroid Plexus Epithelial Cell Sodium and Potassium. Quentin R. Smith and Conrad E. Johanson 673

The Renal Clearance of Digoxin is Dependent upon the Serum Digoxin Concentration. Thomas P. Gibson and Antonio P. Quintanilla 681

Purine Release from Vascular Adrenergic Nerves by High Potassium and a Calcium Ionophore, A-23187. Takeshi Katsuragi and Che Su 685


The Effect of Theophylline and Other Methylxanthines on Presynaptic Inhibition of the Longitudinal Smooth Muscle of the Guinea-Pig Ileum Induced by Purine Nucleotides. F. K. Okeuassaba and M. A. Cook 704

Neuronal Uptake of Choline Following Release of Acetylcholine in the Perfused Heart. Ruth Lindmair, Konrad Löffelholz, Wolfgang Weide and Jutta Witteke 710

Specific Changes in the Cholinergic System in Guinea-Pig Vas Deferens after Denervation. Fumiaki Hata, Kunio Takeyasu, Yoshih Morikawa, Ron-Tian Lai, Hajime Ishida and Hiroshi Yoshida 716

Index, Volume 215, October–December, 1980 723