CONTENTS OF VOLUME 215
No. 1, October 1980

Hydrolysis of Dicacylmorphine (Heroin) by Human Serum Cholinesterase. OKASANA LOCKRIDGE, NANCY MOTTERSHEW-JACKSON, HARRY W. ECKBERG 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 Analogue on the Synthesis of Prostaglandin E2 by Rat Renal Medullary Interstitial Cells in Culture. THOMAS R. BECK, AVIV HASID AND MICHAEL J. DUNN
The Effects of Cocaine and Metanephrine on the Cardiac Responses to Norepinephrine Infusions. YUKITAKA MASUDA, YASUO MATSUURA AND MATTHEW N. LEVY
Effects of Lanthanum and Trifluoperazine on [3H]Calmodulin Binding to Rat Striatal Particulates. YUEN-SUM LAU AND MARGARET E. NEGEY
Tolerance and Disposition 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. DETTMANN 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
Pharmacokinetic-Dynamic Analysis of the Indomethacin-Piroxicam Interaction in Man. P. CHENNANASIV, R. SEITWELL AND D. C. BRATER
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
Different Effects of the Antiinvoluants, Phenobarbital, Ethosuximide and Carbamazepine on Neuromuscular Transmission. MARC T. ALDERIDGE AND BRAD A. TROMMER
The in Vitro Formation of Glutathione Conjugates with the Microsomal Activated Pulmonary Bronchial Alkylating Agent and Cytotoxin, 4-Impenem. ALAN R. BUCKPIT 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 322-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. BARNETT R. COOPER, TERRA J. HESTER AND ROBERT A. MAXWELL
Amphetamine-Haloperidol Interactions on Striatal and Mesolimbic Tyrosine Hydroxylase Activity and Dopamine Metabolism. RONALD KUCZENSKI
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 WAMBURG AND PARKHURST A. SHORE
The Pulmonary Vascular Effects of Three Prostaglandin I2 Analogs in Conscious Newborn Lambs. JAMES E. LOCK, FLAVIO COCEANI, FRANCIS HAMILTON, ALISON GREENWAY-CATES AND PETER M. OLLEY
Ibuprofen Improves Survival from Endotoxic Shock in the Rat. W. C. WISE, J. A. COOK, T. ELLER AND P. V. HALUHSHA
Effect of Plasma Protein Binding on Quinidine Kinetics in the Rabbit. THEODORE W. GUNTERT AND SVEIN ØIE
Cephalosporin Neuropeptidase Inhibitor, Transport, Cytotoxicity and Mitochondrial Toxicity of Cephaloglycin. BRUCE M. TUNE AND DORIS FRAVART
Changes in Cardiac Glycoside Activity Produced by Aminosugar Addition. L. SCOTT COOK, ROBERT W. CALDWELL AND CLINTON B. NASH
Stereospecific Radioimmunoassay of α-l-Acetylmethadol (LAAM). KIP L. MCGILLARD AND GEORGE D. OLSEN
Regulation of Calcium Fluxes in Rat Pancreatic Islets: The Role of K+ Conductance. A. HERCHELZ, N. THONNART, A.
Carpinelli, A. Sener and W. J. Malaisse
Is the Antihypertensive Effect of Propranolol Caused by an Action within the Central Nervous System? Jos F. M. Smits, Helma van Essen and Harry A. J. Struyker-Boudier

Adrenergic Regulation of Blood Glucose Levels: Possible Involvement of Postsynaptic Alpha-2 Type Adrenergic Receptors Regulating Insulin Release. Teruo Nakadate, Toshio Nakagi, Takamura Muraki and Ryuichi Kato

Dose-Dependent Pharmacokinetics of Tolcaimide in the Rat. Ramon Venkataramanan and James E. Axelsson

The Effect of Phenobarbital and SKF 559A on Tolcaimide Pharmacokinetics in the Rat. Ramon Venkataramanan and James E. Axelsson

Prostacyclin and Thromboxane A2 Synthesis by Rabbit Pulmonary Artery. Phyllis M. Salzman, John A. Salmon and Salvador Moncada

Binding of Drugs to Muscle Tissue: Dependence on Drug Concentration and Lipid Content of Tissue. Burkhard Fichth, Brigitta Bondy and Hermann Kurz

Interaction of Calcium and Microtubules in the Action of Cyclic AMP on the Road Urinary Bladder. Shigekazu Yuasa, Yoshihiro Takamitsu, Shigeo Ikeda, Yoshimasa Ori, Hiroshi Abe and Takehiko Watanabe

Comparative Cardiac Contractile Actions of Six Narcotic Analgesics: Morphine, Meperidine, Pentazocine, Fentanyl, Methadone and Ia-Acetylmethadol (LAAM). Stephen V. Rendic, Ezra A. Amsterdam, Gary L. Henderson and Dean M. Mason


No. 2, November 1980

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 Grether 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

Phenytoin, 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. C. and H. E. Brezenoff

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


Effects of Transmembrane Potential on Oscillatory Afterpotentials Induced by Acetylstrophanthidin 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 Ventricle. Rebecca L. Biegow, Paul M. Epstein and Achilles J. Pappano

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

Dissociation of Varied Actions of Norepinephrine on 42Ca 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 Symptomimetic Amines on Vasocostriction by Adrenergic Nerve Stimulation. Che Su

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

Gentamicin Uptake by Renal Tubule Brush Border Membrane Vesicles. James L. Lipsky, Linda Cheng, Bertram Sacktor and Paul S. Liemman

Differing Electrophysiologic Effects of Slow Response Inhibiting Agents Manganese and Verapamil on Ischemic, Infarcted and Normal Tissue in Situ. Joel Kuppermith 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 Bernard 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 Deppressor Cardiovascular Reflexes by a Derivative of 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 BRINK, PAMELA G. DUNCAN, MALINDA MIDEZENSK and JAMES S. DOUGLAS
Cyclic Nucleotides and Contraction/Relaxation in Airway Muscle: H₁ and H₂ Agonists and Antagonists. PAMELA G. DUNCAN, CHARLES BRINK, RICHARD L. ADOLPHSON and JAMES S. DOUGLAS
Mechanism of Renal Tubular Secretion of Norepinephrine in the Rabbit. RODNEY W. LAPPF, DAVID P. HENRY and LYNN R. WILLIS
Regulatory Role of Glutathione and Soluble Sulfhydryl Groups in the Toxicity of Adriamycin. RICHARD D. OLSON, JAMES S. MACDONALD, CHRIS J. VAN BOXTEL, ROBERT C. BOERTH, RAYMOND D. HARRISON, ALFRED E. SLONIM, RICHARD W. FREEMAN and JOHN A. AUSTIN
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. KARCZMAR
The Presence of the Type A Form of Monoamine Oxidase within Nigrostriatal Dopamine-Containing Neurons. KEITH T. DEMAEST, DAVID J. SMITH and JEREMY A. 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. KEITORO HASHIMOTO, REKUS OCHI, KOROKU HASHIMOTO, JUN NIUI and YUIJI MIURA
Presynaptic Effects of 2-Aminotetrinalin on Striatal Dopaminergic Neurons. IRENE S. HOFFMAN, ROBERT J. NAYLOR and LUIGI X. CUBEDDU
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. HIRED SADA and TAKASHI BAN
Tolerance to the Effects of Morphine on Intestinal Motility of Unanesthetized Dogs. NORMAN W. WEISBRODT, PIOTR J. THOR, E. M. COPELAND and THOMAS F. BURKS
Effects of Alpha Adrenergic Blockade, Combined Nicotinic and Muscarinic Ganglion Blockade and Spinal Anesthesia upon Norepinephrine Deposition in the Heart. JAMES H. GILTON
Improvement of Human Myocardial Mitochondria after Dobutamine: A Quantitative Ultrastructural Study. DONALD V. UNVERFERTH, CARL V. LIERS, RAYMOND D. MAGORIEN, RAYMOND CROSBERY, JOHN R. SIRBELY, ALBERT J. KOLIVASH, MICHAEL R. DICK, JOSEPH A. MEACHAM and NOBUISHA BABA
Does Histamine Influence Vasodilation Caused by Prolonged Arterial Occlusion or Heavy Exercise? ALAN DANIEL and CARL R. HONG
Propranolol Effects on Membrane Repolarization Time in Isolated Canine Purkinje Fibers: Threshold Tissue Content and the Influence of Exposure Time. JACK K. PRUETT, THOMAS WALLACE and U. KRISTINA WALLACE

No. 3, December 1980

The Effects of Chronic Methylphenidate Treatment on Growth and Endocrine Function in the Developing Rat. GEORGE H. GREELEY, 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 BENTOLILÁ
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. KIEFFER, S. MARTINEZ and A. CARTER
Maturation of Sympathetic Neurotransmission in the Rat Heart. V. Development of Baroreceptor Control of Sympathetic Tone. JORGE BARTLOMIE, ELLIOTT MILLS, CHRISTOPHER LAU and THOMAS A. SLOTKIN
Induction of Aryl Hydrocarbon Hydroxylase Activity in the Rat Prostate Glands by 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. I. P. LEE and K. SUZUKI
Electrophysiological Evidence for Presynaptic Actions of Phencyclidine on Noradrenergic Transmission in Rat Cerebellum. JWAHARLAL MARWAHA, MICHAEL R. PALMER, DONALD J. WOODWARD, BARRY J. HOFER and ROBERT FREEDMAN
Estrogen-Induced Alterations in the Autonomic Responses of the Rabbit Uterine Bladder. ROBERT M. LEVIN, FRANCES S. SHOFER and ALAN J. WAIN
Alterations in Pentobarbital and Meperidine Pharmacokinetics Induced by Bile Duct Ligation in the Rat. ROBERT G. KNODELL, DAVID A. BROOKS, RICHARD C. ALLEN and WALTER T. KNYER
Sites of Antinoceptive Action of Systemically Injected Morphine: Involvement of Supraspinal Loci as Revealed by Intracere-
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 Vascular 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. Okwuassaba and M. A. Cook 704
Neuronal Uptake of Choline Following Release of Acetylcholine in the Perfused Heart. Ruth Lindmar, Konrad Löffelholz, Wolfgang Weide and Jutta Witzke 710
Specific Changes in the Cholinergic System in Guinea-Pig Vas Deferens after Denervation. Fumiaki Hata, Kunio Takeyasu, Yoshih Morikawa, Ron-Tsan Lai, Hajime Ishida and Hiroshi Yoshida 716
Index, Volume 215, October–December, 1980 723