

CONTENTS OF VOLUME 210

No. 1, July 1979

| | |
|---|-----|
| Neuro-Cardiovascular Effects Produced by Bicuculline in the Cat. JOSEPH A. DiMICCO AND RICHARD A. GILLIS | 1 |
| Cholinergic Mechanisms in Heart: Interactions with 4-Aminopyridine. SHIRLEY E. FREEMAN | 7 |
| Characteristics of Hepatic Excretory Function during Development. STUART Z. CAGEN AND JAMES E. GIBSON | 15 |
| Ethanol-Induced Spontaneous Norepinephrine Release from the Rat Vas Deferens. NAEEMA C. DEGANI, EDWARD M. SELLERS AND KRZYSZTOF KADZIELAWA | 22 |
| Involvement of the Sodium-Potassium Pump in the Mechanism of Postjunctional Supersensitivity of the Vas Deferens of the Guinea Pig. W. T. GERTHOFFER, J. S. FEDAN, D. P. WESTFALL, K. GOTO AND W. W. FLEMING | 27 |
| A New Platelet Aggregation Inhibitor Which Possesses Hypolipemic and Uricosuric Properties, 2-[3-(2-Thiazolylthio) Phenyl]-Propionic Acid (TPA). D. H. MINSKER, G. M. FANELLI, JR., J. L. GILFILLAN, J. W. HUFF, P. JORDAN AND P. KLING | 37 |
| A Model of Cardiac Arrhythmias and Sudden Death: Cantharidin-Induced Toxic Cardiomyopathy. SIMON W. RABKIN, JANET M. FRIESEN, JOHN A. J. FERRIS AND HENRY Y. M. FUNG | 43 |
| Variation in Contractile Response Characteristics of Rabbit Aorta Strips with Surface of Drug Entry. R. PASCUAL AND J. A. BEVAN | 51 |
| Adrenergic Mechanisms in Postvagal Tachycardia. JERROD M. LOEB AND MARIO VASSALLE | 56 |
| Interaction of Lidocaine and Calcium on the Electrical Characteristics of Rabbit Atria. OSWALDO J. BETANCOURT AND PETER E. DRESEL | 64 |
| A Laboratory Animal Model for Malignant Hyperpyrexia. CHARLES G. DURBIN, JR. AND HENRY ROSENBERG | 70 |
| Spontaneous Histamine Secretion from Leukocytes in the Presence of Strontium. JOHN C. FOREMAN AND LAWRENCE M. LICHTENSTEIN | 75 |
| Effect of Tissue Adenosine 3':5'-Monophosphate on the Potassium Contracture of Myometrium: Role of Endogenous Norepinephrine. E. A. KROEGER | 82 |
| Additive Physical Dependence: Evidence for a Common Mechanism in Alcohol Dependence. JANET A. MCCOMB AND DORA B. GOLDSTEIN | 87 |
| Studies on the Behavioral and Biochemical Effects of Hemicholinium <i>in Vivo</i> . J. J. FREEMAN, J. R. MACRI, R. L. CHOI AND D. J. JENDEN | 91 |
| Effect of Cephaloridine on Respiration by Renal Cortical Mitochondria. BRUCE M. TUNE, KAI YIN WU, DORIS FRAVERT AND DAVID HOLTZMAN | 98 |
| Blockade by Saralasin of Adrenergic Potentiation Induced by Renin-Angiotensin System. B. G. ZIMMERMAN AND E. KRAFT | 101 |
| Arrest of Cultured Cells in the G ₁ Phase of the Cell Cycle by Indomethacin. BARBARA M. BAYER, HOWARD S. KRUTH, MARTHA VAUGHAN AND MICHAEL A. BEAVEN | 106 |
| Further Studies of Glucocorticoid Effects on Spinal Cord Function: Single and Repetitive Monosynaptic Transmission and Apparent 1a Afferent Transmitter Turnover. EDWARD D. HALL AND THOMAS BAKER | 112 |
| Isolation of the Sino-Atrial Node with Veratramine. HAROLD A. SURES AND IAN R. INNES | 116 |
| The Role of Sympathetic Nervous System in the Vascular Actions of Dopamine. MUSTAFA F. LOKHANDWALA AND BHAGAVAN S. JANDHYALA | 120 |
| Disposition of Phenacetin in Dog and Man Determined by a Sensitive and Specific Radioimmunoassay. JOHN W. A. FINDLAY, RICHARD L. DEANGELIS, ROBERT F. BUTZ, JEFFREY B. SAILSTAD AND RICHARD M. WELCH | 127 |
| Evidence for Distinct Prostaglandin I ₂ and D ₂ Receptors in Human Platelets. OLGA V. MILLER AND ROBERT R. GORMAN | 134 |
| Pharmacological Evaluation of New Calcium Antagonists: 2-Substituted 3-Dimethylamino-5,6-Methylenedioxyindenes. Effects on Isolated Hearts and Coronary Vessels. MARY F. PIASCIK, RALF G. RAHWAN AND DONALD T. WITIAK | 141 |
| Action of Indomethacin on Furosemide-Induced Renin Release in the Dog and the Rat. LUIZ NASCIMENTO, ALFREDO J. FIALLO, MARÍA T. NEGRÓN, NIVIA CRUZ, JOSÉ M. AYALA, RAFAEL BAQUERO AND MANUEL MARTÍNEZ-MALDONADO | 147 |

No. 2, August 1979

| | |
|---|-----|
| Effects of Goniopora Toxin, a Polypeptide Isolated from Coral, on Electromechanical Properties of Rabbit Myocardium. MOTOHATSU FUJIWARA, IKUNOBU MURAMATSU, HIROYOSHI HIDAKA, SHINOBU IKUSHIMA AND KATSURO ASHIDA | 153 |
| The Behavioral Effects of <i>d</i> -Amphetamine Alone and in Combination with Acute and Chronic Morphine Treatments in Rats. JAMES B. LUCOT, D. E. McMILLAN AND J. DAVID LEANDER | 158 |
| Inhibition by Pentobarbital of the Acetylcholine Release from the Post-ganglionic Parasympathetic Neuron of the Heart. RUTH LINDMAR, KONRAD LÖFFELHOLZ AND WOLFGANG WEIDE | 166 |

| | |
|--|-----|
| Electroencephalographic and Behavioral Tolerance to and Cross-Tolerance between D-Ala ² -Methionine-Enkephalinamide and Morphine in the Rat. FRANK C. TORTELLA, J. EDWARD MORETON AND NAIM KHAZAN | 174 |
| Effect of Phenytoin (DPH) Treatment on Methoxyflurane Metabolism in Rats. GEORGE H. CAUGHEY, SUSAN A. RICE, JON C. KOSEK AND RICHARD I. MAZZE | 180 |
| Urate Excretion: Drug Interactions. G. M. FANELLI, JR. AND I. M. WEINER | 186 |
| Effects of Norcocaine and Some Norcocaine Derivatives on Schedule-Controlled Behavior of Pigeons and Squirrel Monkeys. R. D. SPEALMAN, S. R. GOLDBERG, R. T. KELLEHER, W. H. MORSE, D. M. GOLDBERG, C. G. HAKANSSON, K. A. NIEFORTH AND E. S. LAZER | 196 |
| Behavioral Effects of Self-Administered Cocaine: Responding Maintained Alternately by Cocaine and Electric Shock in Squirrel Monkeys. ROGER D. SPEALMAN AND R. T. KELLEHER | 206 |
| Multiple Effects of Guanosine Triphosphate on <i>Beta</i> Adrenergic Receptors and Adenylate Cyclase Activity in Rat Heart, Lung and Brain. LINDA R. HEGSTRAND, KENNETH P. MINNEMAN AND PERRY B. MOLINOFF | 215 |
| Electrophysiological Effects of Mexiletine (Kö1173) on Ovine Cardiac Purkinje Fibers. FRANCIS M. WELD, J. THOMAS BIGGER, JR., DANIEL SWISTEL, JOHN BORDIUK AND YAT H. LAU | 222 |
| Cellular Pharmacology of 7(R)-O-Methylnoganol: A New Anticancer Agent. MERRILL J. EGORIN, RONALD E. CLAWSON, JEFFREY L. COHEN, LOUIS A. ROSS AND NICHOLAS R. BACHUR | 229 |
| Pharmacokinetics of Heparin I. Studies of Dose Dependence in Rats. THORIR D. BJORNSSON AND GERHARD LEVY | 237 |
| Pharmacokinetics of Heparin II. Studies of Time Dependence in Rats. THORIR D. BJORNSSON AND GERHARD LEVY | 243 |
| Evidence for Luminal Uptake of Gentamicin in the Perfused Rat Kidney. VIRGINIA U. COLLIER, PAUL S. LIETMAN AND WILLIAM E. MITCH | 247 |
| Analysis of the Cardiac Stimulant Properties of (3,4-Dihydroxyphenyl)-Cyclopropylamine (ASL-7003) and 2-Amino-6,7-Dihydroxy-1,2,3,4-Tetrahydronaphthalene (A6,7DTN). R. J. GORCZYNSKI, W. G. ANDERSON, P. W. ERHARDT AND D. M. STOUT | 252 |
| Alterations in High-Affinity Choline Uptake in Brain after Acute and Chronic Ethanol Treatment. WALTER A. HUNT, EDWARD MAJCHROWICZ AND THOMAS K. DALTON | 259 |
| The Effects of Amiloride and Ouabain on Urinary Acidification by Turtle Bladder. RUSSELL F. HUSTED AND PHILIP R. STEINMETZ | 264 |
| An Electrophysiological Analysis of the Effects of Paraoxon at the Neuromuscular Junction. MICHAEL B. LASKOWSKI AND WOLF-D. DETTBARN | 269 |
| Depression of Adenosine Triphosphatase Activities in Isolated Liver Surface Membranes of 2,3,7,8-Tetrachlorodibenzo- <i>p</i> -Dioxin-Treated Rats: Correlation with Effects on Ouabain Biliary Excretion and Bile Flow. RICHARD E. PETERSON, B. V. MADHUKAR, K. H. YANG AND FUMIO MATSUMURA | 275 |
| Effects of a Prostaglandin E ₁ Derivative, SC-29333, and Aspirin on Gastric Ionic Fluxes and Potential Differences in Dogs. DOUGLAS G. COLTON, DAVID A. CALLISON AND ESAM. Z. DAJANI | 283 |
| The Effects of Phenytoin and Lidocaine on a Proprioceptor of the Cockroach, <i>Blaberus discoidalis</i> : A Simple Method for Discriminating between Inhibitors of Sensory Transduction and Axonal Conduction. STANLEY M. SPINOLA, MICHAEL P. LILLY, THOMAS M. MAHANY AND ARTHUR RAINES | 289 |
| Isoproterenol Excretion and Metabolism in the Isolated Perfused Rat Kidney. STANLEY J. SZEFLER AND MARGARET ACARA | 295 |
| Human Drug Self-Administration: Double-Blind Comparison of Pentobarbital, Diazepam, Chlorpromazine and Placebo. ROLAND R. GRIFFITHS, GEORGE BIGELOW AND IRA LIEBSON | 301 |

No. 3, September 1979

| | |
|--|-----|
| Microiontophoretic Studies on Noradrenergic Inhibition from Locus Coeruleus of Spinal Trigeminal Nucleus Neurons. MASASHI SASA, SAKAE FUJIMOTO, SEISHI IGARASHI, KATSUNORI MUNEKIYO AND SHUJI TAKAORI | 311 |
| Clofibrate Displaces Warfarin from Plasma Proteins in Man: An Example of a Pure Displacement Interaction. THORIR D. BJORNSSON, PETER J. MEFFIN, SARAH SWEZEY AND TERRENCE F. BLASCHKE | 316 |
| Effects of Clofibrate and Warfarin Alone and in Combination on the Disposition of Vitamin K ₁ . THORIR D. BJORNSSON, PETER J. MEFFIN, SARAH E. SWEZEY AND TERRENCE F. BLASCHKE | 322 |
| Dissociation between Opiate-Like and Antidiarrheal Activities of Antidiarrheal Drugs. C. J. E. NIEMEGERES, J. L. MCGUIRE, J. J. P. HEYKANTS AND P. A. J. JANSSEN | 327 |
| Comparative Nephrotoxicities of Gentamicin, Netilmicin and Tobramycin in the Rat. LEONARDO SOBERON, RALPH L. BOWMAN, ENRIQUE PASTORIZA-MUNOZ AND GEORGE J. KALOYANIDES | 334 |
| Vasopressin Stimulates Thromboxane Synthesis in the Toad Urinary Bladder: Effects of Imidazole. RONALD M. BURCH, DANIEL R. KNAPP AND PERRY V. HALUSHKA | 344 |
| Effect of Cholera Enterotoxin on Pacemaker Rate and Cyclic Adenosine 3':5'-Monophosphate in Isolated Rabbit Sinoatrial Node. TAKASHI TANIGUCHI, MOTOHATSU FUJIWARA, JEUNG JA LEE AND HIROYOSHI HIDAKA | 349 |
| Consequent Events as Determinants of Drug Effects on Schedule-Controlled Behavior: Modification of Effects of Cocaine and <i>d</i> -Amphetamine Following Chronic Amphetamine Administration. MARC N. BRANCH | 354 |

| | |
|--|-----|
| The Effects of Opiates on the Levels of Cyclic 3':5'-Guanosine Monophosphate in Discrete Areas of the Rat Central Nervous System. JAMES P. O'CALLAGHAN, QUINTUS CHESSE, CHRISTINE MCKIMMEY AND DORIS H. CLOUET | 361 |
| Role of Peripheral Adrenoreceptors and Vasopressin in the Suppression of Plasma Renin Activity by L-Dopa in Carbidopa-Treated Dogs. MARTHA L. BLAIR, IAN A. REID, LANNY C. KEIL AND WILLIAM F. GANONG | 368 |
| Synergistic Actions of Propantheline Bromide with Cimetidine and Thiopropazate Hydrochloride in the Prevention of Stress Ulcer Formation in Rats. ESAM Z. DAJANI, ROBERT G. BIANCHI AND DAVID W. CALHOUN | 373 |
| Blockade of Myocardial Slow Channels by Bepridil (CERM-1978). STEVE VOGEL, RICHARD CRAMPTON AND NICK SPERELAKIS | 378 |
| Analysis of the Effect of Indomethacin on the Response to Furosemide in Man: Effect of Dose of Furosemide. D. CRAIG BRATER | 386 |
| Warfarin Enantiomer Disposition: Determination by Stereoselective Radioimmunoassay. C. E. COOK, NOEL H. BALLENTINE, TATIANA B. SELTZMEN AND C. RAY TALLENT | 391 |
| Effects of Systemic and Intraventricular Administration of Cannabinoids on Schedule-Controlled Responding in the Squirrel Monkey. JOHN M. CARNEY, ROBERT L. BALSTER, BILLY R. MARTIN AND LOUIS S. HARRIS | 399 |
| Mechanism of Inhibition of Renal Prostaglandin Production by Acetaminophen. MICHAEL B. MATTAMMAL, TERRY V. ZENSEN, WENDY W. BROWN, CEIL A. HERMAN AND BERNARD B. DAVIS | 405 |
| Effects of Prostaglandins E ₁ and E ₂ on the Maximal Capacity of the Dog Kidney to Reabsorb Glucose. J. W. STRANDHOY, G. W. DOYLE AND T. E. ZOOK | 410 |
| The Effect of Anthopleurin-A on Crayfish Giant Axon. PHILLIP A. LOW, CHAU H. WU AND TOSHIO NARAHASHI | 417 |
| Comparison of the Effects of the Isomers of Amphetamine, Methylphenidate and Deoxypipradrol on the Uptake of <i>l</i> -[³ H]-Norepinephrine and [³ H]Dopamine by Synaptic Vesicles from Rat Whole Brain, Striatum and Hypothalamus. R. M. FERRIS AND F. L. M. TANG | 422 |
| Cardiac Inotropic <i>Beta</i> Adrenoceptors are Fully Active at Low Temperature. B. G. BENFEY | 429 |
| Agonist-Induced Changes in <i>Beta</i> Adrenergic Receptor Density and Receptor-Mediated Responsiveness in Slices of Rat Cerebral Cortex. MARK D. DIBNER AND PERRY B. MOLINOFF | 433 |
| Investigation of the Drug-Binding Defect in Plasma from Rats with Glycerol-Induced Acute Renal Failure. CHRISTOPHER J. BOWMER AND W. EDWARD LINDUP | 440 |
| Anesthetics: Molecular Correlates of Voltage- and Frequency-Dependent Sodium Channel Block in Nerve. JOAN J. KENDIG, KENNETH R. COURTNEY AND ELLIS N. COHEN | 446 |
| Pharmacodynamic Profiles of <i>l</i> - α -Acetylmethadol (LAAM) and Its N-Demethylated Metabolites, Nor-LAAM and Dinor-LAAM, during Self-Administration in the Dependent Rat. GERALD A. YOUNG, GEORGE F. STEINFELS AND NAIM KHAZAN | 453 |
| The Influence of Endogenous Glucagon Release on Hyperglycemic Responses to Catecholamines in Normal Fed and Diabetic Rats. LEE C. WOODSON AND DAVID E. POTTER | 458 |
| Index, Volume 210, July-September 1979 | 465 |