

CONTENTS OF VOLUME 194

No. 1, JULY 1975

Interaction of Angiotensin with Exogenous and Neurally Released Norepinephrine on the Cat Nictitating Membrane <i>in Vitro</i> . PETER CERVONI AND ERNEST REIT	1
The Activity of Tyrosine Hydroxylase in Intact Adrenergic Neurons of the Mouse Vas Deferens. RICHARD A. BJUR AND NORMAN WEINER	9
Postnatal Elevation of Brain Tyrosine Hydroxylase Activity, without Concurrent Increases in Steady-State Catecholamine Levels, Resulting from <i>d</i> - α -Methylparatyrosine Administration during Embryonic Development. R. B. LYDIARD, L. H. FOSOM AND S. B. SPARBER	27
Effect of Thioridazine, Clozapine and Other Antipsychotics on the Kinetic State of Tyrosine Hydroxylase and on the Turnover Rate of Dopamine in Striatum and Nucleus Accumbens. B. ZIVKOVIC, A. GUIDOTTI, A. REVUELTA AND E. COSTA	37
Amphetamine: Evaluation of <i>d</i> - and <i>l</i> -Isomers as Releasing Agents and Uptake Inhibitors for ^3H -Dopamine and ^3H -Norepinephrine in Slices of Rat Neostriatum and Cerebral Cortex. RICHARD E. HEIKKILA, HERBERT ORLANSKY, CATHERINE MYTILINEOU AND GERALD COHEN	47
Application of Principles of Steady-State Kinetics to the Estimation of Brain Acetylcholine Turnover Rate: Effects of Oxotremorine and Physostigmine. M. TRABUCCHI, D. L. CHENEY, I. HANIN AND E. COSTA	57
Brain Acetylcholine and Choline following Acute and Chronic Morphine Treatment and during Withdrawal. HEMENDRA N. BHARGAVA AND E. LEONG WAY	65
Cannabinoids: Influence on Neurotransmitter Uptake in Rat Brain Synaptosomes. SHAILESH P. BANERJEE, SOLOMON H. SNYDER AND RAPHAEL MECHOULAM	74
The Transport of Gentamicin in the Choroid Plexus and Cerebrospinal Fluid. REYNOLD SPECTOR	82
Permeability of Selected Drugs and Chemicals across the Blood-Testis Barrier of the Rat. KATSUHIKO OKUMURA, INSU P. LEE AND ROBERT L. DIXON	89
The Absence of Renal Bicarbonate Reabsorption Maxima during Carbonic Anhydrase Inhibition. LAL C. GARG	96
Influence of Tetrahydouridine on the Phosphorylation of 1- β -D-Arabinofuranosylcytosine (ara-C) by Enzymes from Solid Tumors <i>in Vitro</i> . R. L. FURNER, L. B. MELLETT AND T. C. HERREN	103
Pentobarbital Pharmacokinetics in the Normal and in the Hepatectomized Rat. FRIEDRICH-WILHELM OSSENBERG, MICHELE PEIGNOUX, DENISE BOURDIAU AND JEAN-PIERRE BENHAMOU	111
Study of the Hepatic Metabolism of Primidone by Improved Methodology. JOHN ALVIN, EDWARD GOH AND MILTON T. BUSH	117
A Study of Absorption of Compounds from the Rat Biliary Tree by Retrograde Intrabiliary Injection (RII). RICHARD E. PETERSON AND JAMES M. FUJIMOTO	126
The Relationship between Nitro Group Reduction and the Intestinal Microflora. LARRY A. WHEELER, FRANCES B. SODERBERG AND PETER GOLDMAN	135
Immunopharmacological Studies Using 5-Hydroxytryptamine Antibody. R. A. O'BRIEN, M. BOUBLIK AND S. SPECTOR	145
Mechanism of Action of Colchicine. I. Effects of Colchicine and Its Analogs on the Reversed Passive Arthus Reaction and the Carrageenan-Induced Hindpaw Edema in the Rat. YI-HAN CHANG	154
Mechanism of Action of Colchicine. II. Effects of Colchicine and Its Analogs on Phagocytosis and Chemotaxis <i>in Vitro</i> . YI-HAN CHANG	159
Effects of Sodium Acetylsalicylate on Body Temperature of Monkeys under Heat Exposure. M. T. LIN AND C. Y. CHAI	165
Effects of Mercury on Spermatogenesis Studied by Velocity of Sedimentation Cell Separation and Serial Mating. I. P. LEE AND R. L. DIXON	171
Intestinal Smooth Muscle Contraction and the Effects of Cadmium and A23187. C. R. TRIGGLE, W. F. GRANT AND D. J. TRIGGLE	182
Comparison of Aortic Calcium and Contractility in Male, Female and Lactating Female Rats. ALBERT F. DEFELICE AND PAUL D. JOINER	191
Receptor Binding and Pharmacological Activity of Opiates in the Guinea-Pig Intestine. IAN CREESE AND SOLOMON H. SNYDER	205
Comparative Antihypertensive Effects and Tissue Distribution of Beta Adrenergic Blocking Drugs. H. LLOYD GARVEY AND NAND RAM	220

Effects of Dimethyl Quaternary Propranolol (UM-272) on Oxygen Consumption and Ischemic ST Segment Changes in the Canine Heart. FRANK J. KNIFFEN, TIMOTHY E. LOMAS, WILLIAM E. BURMEISTER AND BENEDICT R. LUCCHESI	234
Studies on the Mechanism of Inhibition of the Red Cell Metabolism by Cardiac Glycosides. P. O. OKONKWO, G. LONGENECKER AND A. ASKARI	244
Ouabain-Induced Changes in Electrophysiologic Properties of Neonatal, Young and Adult Canine Cardiac Purkinje Fibers. MICHAEL R. ROSEN, ALLAN J. HORDOF, ARTHUR B. HODESS, MARIAGNES VEROISKY AND YVONNE VULLIEMOZ	255
The Cardiac Pharmacology of Tolbutamide. GUY P. CURTIS, JAMES SETCHFIELD AND BENEDICT R. LUCCHESI	264
Efficacy and Interactions of Oxandrolone, Halofenate and Clofibrate in a Factorial Study on Experimental Acute Nephrotic Hyperlipidemia. G. J. SCHAPEL AND K. D. G. EDWARDS	274

No. 2, AUGUST 1975

Interactions of Tricyclic Antidepressants and Barbiturates in Barbiturate-Tolerant and Nontolerant Rats. SHEAN-JANG LIU, CHIAN L. HUANG AND I. W. WATERS	285
Head-Turning Induced by Electrical Stimulation of the Caudate Nucleus and Its Antagonism by Anti-Parkinson Drugs. ALLEN BARNETT AND JEFFREY GOLDSTEIN	296
Depletion of S-Adenosyl-L-Methionine in Mouse Brain by Antidepressive Drugs. K. M. TAYLOR AND P. K. RANDALL	303
Molecular Mechanisms in the Action of Morphine and Viminol (R_2) on Rat Striatum. A. CARENZI, A. GUIDOTTI, A. REVUELTA AND E. COSTA	311
Noradrenergic Sensitivity of the Cerebral Cortex after Chronic Ethanol Ingestion and Withdrawal. S. W. FRENCH, D. S. PALMER, M. E. NAROD, P. E. REID AND C. W. RAMEY	319
Effects of d-Amphetamine on the Behavior of Pigeons Maintained by a Second-Order Schedule of Reinforcement. N. W. BOND, D. J. SANGER AND D. E. BLACKMAN	327
Separating the Effects of Response Rate and Reinforcement Frequency in the Rate-Dependent Effects of Amphetamine and Scopolamine on the Schedule-Controlled Performance of Rats and Pigeons. ROBERT C. MACPHAIL AND LEWIS R. GOLLUB	332
Rate-Dependent Effects of Drugs on the Variable-Interval Behavior of Rats. D. J. SANGER AND D. E. BLACKMAN	343
Presynaptic Effects of Neuromuscular Cholinesterase Inhibition. MICHAEL B. LASKOWSKI AND WOLF-D. DETTBARN	351
Modification by Lithium of Transmitter Release at the Neuromuscular Junction of the Frog. DIMITRIE D. BRANISTEANU AND ROBERT L. VOLLE	362
Characterization of Neuromuscular Blocking Action of Piperidine Derivatives. J. Z. YEH, TOSHIO NARASHI AND RICHARD R. ALMON	373
Abnormal Secretory Response to Parasympathomimetic and Sympathomimetic Stimulation from the Submaxillary Gland of Rats Treated with Reserpine. J. RICARDO MARTINEZ, DAVID O. QUISSELL, DOUGLAS L. WOOD AND MARILYN GILES	384
Changes in Mechanical Events and Adenosine 3',5'-Monophosphate Levels Induced by Enantiomers of Isoproterenol in Isolated Rat Atria and Uteri. J. E. BIRNBAUM, P. W. ABEL, G. L. AMIDON AND C. K. BUCKNER	396
Effects of Ketamine on Left Ventricular Performance. DAVID A. SCHWARTZ AND LAWRENCE D. HORWITZ	410
The Antiarrhythmic and Hemodynamic Actions of α,α -Dimethyl-4-($\alpha,\alpha,\beta,\beta$ -Tetrafluorophenethyl)Benzylamine (MK-251). MARY LOU TORCHIANA, CLEMENT A. STONE, HERBERT C. WENGER, ROSE EVANS, BARBARA LAGERQUIST AND THERESA O'MALLEY	415
Antiarrhythmic and Antifibrillatory Properties of Aprindine. DONALD A. KROLL AND BENEDICT R. LUCCHESI	427
Pharmacology of a Potent, New Antithrombotic Agent, 6-Methyl-1,2,3,5-Tetrahydroimidazo[2,1-b]Quinazolin-2-one Hydrochloride Monohydrate (BL-3459). J. S. FLEMING, J. P. BUYNISKI, R. L. CAVANAGH AND M. E. BIERWAGEN	435
Potassium Prrenoate: A New Steroidal Aldosterone Antagonist. LORENZ M. HOFMANN, LELAND J. CHINN, HIDANIA A. PEDRERA, MICHAEL I. KRUPNICK AND OSMAN D. SULEYMANOV	450
Effect of Cromolyn Sodium and Deuterium Oxide on Anaphylactic Histamine Release from Rat Peritoneal Mast Cells <i>in Vitro</i> . DAVID J. HERZIG AND EDWARD J. KUSNER	457
An Enzymatic Method (Phospholipase B) for Studies on Cestode Infection (<i>Hymenolepis Nana</i>) and Its Suppression by Chemotherapy. ATHOS OTTOLENGHI AND JOHN T. ROWLAND	463

Hepatic Microsomal Ethanol-Oxidizing System (MEOS): Dissociation from Reduced Nicotinamide Adenine Dinucleotide Phosphate Oxidase and Possible Role of Form I of Cytochrome P-450. YASUSHI HASUMURA, ROLF TESCHKE AND CHARLES S. LIEBER	469
No. 3, SEPTEMBER 1975	
Enhancement of the Antitumor Effect of 1,3-Bis(2-Chloroethyl)-1-Nitrosourea by Various Psychotropic Drugs in Combination with Caffeine. MARTIN H. COHEN	475
Onset of Audiogenic Seizures in Rodents after Intake of Near-Toxic Doses of Rubidium Chloride. GEORGE J. ALEXANDER AND HERBERT L. MELTZER	480
Animal Pharmacology of Wy-16,225, a New Analgesic Agent. JERRY L. MALIS, MARVIN E. ROSENTHALE AND MELVYN I. GLUCKMAN	488
Studies on the Localization of Central Cough Mechanism; Site of Action of Antitussive Drugs. DOROTHY T. CHOU AND S. C. WANG	499
Site of Action and Active Form of Procaine in Squid Giant Axons. TOSHIO NARAHASHI AND DONALD T. FRAZIER	506
Excitability Modulation by Taurine: Action on Axon Membrane Permeabilities. RAPHAEL GRUENER AND HOWARD J. BRYANT	514
Extraneuronal Monoamine Oxidase in Rat Heart: Biochemical Characterization and Electron Microscopic Localization. M. C. LOWE, D. D. REICHENBACH AND A. HORITA	522
Multiple Forms of Amine Oxidase in Perfused Rabbit Lung. JEROME A. ROTH AND C. N. GILLIS	537
The Pharmacodynamics of 5-Hydroxytryptamine Uptake and Metabolism by the Isolated Perfused Rabbit Lung. R. D. PICKETT, M. W. ANDERSON, T. C. ORTON AND T. E. ELING	545
Contractile Responses of the Guinea-Pig Trachea <i>in Vitro</i> : Modification by Prostaglandin Synthesis-Inhibiting Drugs. JEAN OREHEK, JAMES S. DOUGLAS AND AREND BOUHUYS	554
On the Use of Functional Antagonism to Estimate Dissociation Constants for Beta Adrenergic Receptor Agonists in Isolated Guinea-Pig Trachea. C. K. BUCKNER AND R. K. SAINI	565
Interactions of Morphine, Adenosine, Adenosine Triphosphate and Phosphodiesterase Inhibitors on the Field-Stimulated Guinea-Pig Ileum. ALAN R. GINTZLER AND JOSE M. MUSACCIO	575
Saturable Binding of Dihydromorphine and Naloxone to Rat Brain Tissue <i>in Vitro</i> . CHENG-YI LEE, TAI AKERA, SHELDON STOLMAN AND THEODORE M. BRODY	583
Distribution of Chlorpromazine in the Gastrointestinal Tract of the Rat and Its Effect on Absorptive Function. P. R. SUNDARESAN AND L. RIVERA-CALIMLIM	593
Effect of Chlorpropamide on Renal Response to Parathyroid Hormone in Normal Subjects and in Patients with Hypoparathyroidism and Pseudohypoparathyroidism. RICHARD COULSON AND ARNOLD M. MOSES	603
Effect of Diuretics on Oxidative Phosphorylation of Dog Kidney Mitochondria. G. EKNOYAN, H. SAWA, S. HYDE III, J. M. WOOD, A. SCHWARTZ AND W. SUKI	614
Cardiovascular Effects of 1-Benzylimidazole. RICHARD S. TUTTLE, CLARA GARCIA-MINOR AND MORTON SIMON	624
Altered Intracardiac Conduction after Acute Administration of Ethanol in the Dog. M. JAY GOODKIND, NORRIS H. GERBER, JR., JOHN R. MELLEN AND JOHN B. KOSTIS	633
Index, Volume 194, July-September 1975	639