

CONTENTS OF VOLUME 191

No. 1, OCTOBER 1974

Pharmacologic Regulation of the Early Steps of Purine Biosynthesis in Burkitt Lymphoma Cells and in Ehrlich Ascites Tumor Cells. GABRIELLE H. REEM	1
Synergism between Ammonia and Fatty Acids in the Production of Coma: Implications for Hepatic Coma. FRANKLIN J. ZIEVE, LESLIE ZIEVE, WILLIAM M. DOIZAKI AND ROBERT B. GILSDORF ...	10
Clearance and Biologic Half-Life as Indices of Intrinsic Hepatic Metabolism. Donald Perrier and Milo Gibaldi	17
Comparison of the Effects of Two-thirds Hepatectomy and Bile Duct Ligation on Hepatic Excretory Function. CURTIS D. KLAASSEN	25
Perinatal Drug Metabolism and Morphological Changes in the Hepatocytes of Normal and Phenobarbital-Treated Guinea Pigs. W. KUENZIG, J. J. KAMM, M. BOUBLIK, F. JENKINS AND J. J. BURNS	32
Effects of Enzyme Induction on Intestinal Phenacetin Metabolism in the Rat. E. J. PATRICK, K.-C. HSIAO, S. A. KAPLAN, R. KUNTZMAN AND A. H. CONNEY	45
Impairment by Cholestyramine of Dicumarol and Tromexan Absorption in Rats: A Potential Drug Interaction. AUBREY V. TEMBO AND THEODORE R. BATES	53
Pharmacology of Cyanate. III. Effects on the Central Nervous System. J. K. LEONG, R. W. GRADY, J. HERBERT, J. H. GRAZIANO, A. CERAMI, M. JUDGE AND D. QUARTERMAIN	60
Inhibition of Amphetamine Tolerance and Metabolism by Propranolol. DON W. SHOEMAN, CESARE R. SIRTORI AND DANIEL L. AZARNOFF	68
Thyroid Hormone Control of 5-Hydroxytryptamine Metabolism in Developing Rat Brain. RAM B. RASTOGI AND RADHEY L. SINGHAL	72
Dopaminergic Neurons: Drug-Induced Antagonism of the Increase in Tyrosine Hydroxylase Activity Produced by Cessation of Impulse Flow. JUDITH R. WALTERS AND ROBERT H. ROTH ...	82
Endocrine-Like Cells in Rat Stomach: Effects of 6-Hydroxydopa on Amine Stores and Amino Acid Decarboxylase Activities. A Chemical, Fluorescence Histochemical and Electron Microscopic Study. R. HAKANSON, L.-I. LARSSON AND F. SUNDLER	92
High Affinity Transport of Choline into the Myenteric Plexus of Guinea-Pig Intestine. CANDACE B. PERT AND SOLUMON H. SNYDER	102
Reactivity of Chick Embryo Heart to Cholinergic Agonists during Ontogenesis: Decline in Desensitization at the Onset of Cholinergic Transmission. ACHILLES J. PAPPANO AND CAROL A. SKOWRONEK	109
Further Studies on the Correlation between the Inotropic Action of Ouabain and Its Interaction with the Na ⁺ , K ⁺ -Adenosine Triphosphatase: Isolated Perfused Rabbit and Cat Hearts. ARNOLD SCHWARTZ, JULIUS C. ALLEN, W. BARRY VAN WINKLE AND RONALD MUNSON	119
Effect of a Spirolactone Derivative, Sodium Canrenoate, on Mechanical and Electrical Activities of Isolated Rat Myocardium. EDOUARD CORABOEUF AND EDITH DEROUBAIX	128
The Action of Vasodilating Drugs on Isolated Basilar, Coronary and Mesenteric Arteries of the Dog. NOBORU TODA	139
Age-Related Changes in Vascular Responsiveness to Cyclic Nucleotides and Contractile Agonists. MARLENE L. COHEN AND BARRY A. BERKOWITZ	147
The Site of Action of AHR-2666 in Frog Sartorius Muscle. KAREN C. LUSTIG AND EDWARD B. KIRSTEN	156
Subcellular Distribution of Reserpine in Blood Platelets: Evidence for Multiple Pools. S. J. ENNA, M. DA PRADA AND A. PLETSCHER	164
Comparison of Morphine and Chlorpromazine Effects on Moderately and Severely Suppressed Punished Responding in the Pigeon. MAXINE STITZER	172
Codeine- and Cocaine-Reinforced Responding in Rhesus Monkeys: Effects of Dose on Response Rates under a Fixed-Ration Schedule. DAVID A. DOWNS AND JAMES H. WOODS	179
Tolerance to and Physical Dependence on Morphine: Relation to Neocortical Acetylcholine Release in the Cat. GASTON LABRECQUE AND EDWARD F. DOMINO	189

No. 2, NOVEMBER 1974

Effect of Microsomal Enzyme Inducers on the Biliary Excretion of Cardiac Glycosides. CURTIS D. KLAASSEN.....	201
Stimulation of the Development of the Hepatic Excretory Mechanism for Ouabain in Newborn Rats with Microsomal Enzyme Inducers. CURTIS D. KLAASSEN.....	212
Cardenolide Analogs. V. Cardiotonic Activity of Semisynthetic Analogs of Digitoxigenin. RICHARD THOMAS, JOHN BOUTAGY AND ALEX GELBART.....	219
Pharmacology of Aconitine-Induced Automaticity on <i>in Vitro</i> Cat Myocardial Preparations. II. Effects of Refractory Period Prolongation, Reduced Sodium and Tetrodotoxin. RALPH D. TANZ.....	232
Subcellular Myocardial Effects of Verapamil and D ₆₀₀ : Comparison with Propranolol. AUGUST M. WATANABE AND H. R. BESCH, JR.....	241
Effects of Tricyclic Compounds on the Histamine Response of Isolated Atria. M. J. HUGHES AND I. A. CORET.....	252
Contractile Actions of Antihistamines on Isolated Arterial Smooth Muscle. BURTON M. ALTURA AND BELLA T. ALTURA.....	262
Behavioral Modulation of the Cardiovascular Effects of <i>l</i> -Norepinephrine in the Squirrel Monkey. R. T. KELLEHER, W. H. MORSE, S. R. GOLDBERG AND J. ALAN HERD.....	269
Action of Reserpine in Morphine-Tolerant Rats: Absence of an Antagonism of Catecholamine Depletion. J. C. BLOSSER AND G. N. CATRAVAS.....	284
Suppression by Diphenylhydantoin of Afferent Discharges Arising in Muscle Spindles of the Triceps Surae of the Cat. REBECCA J. ANDERSON AND ARTHUR RAINES.....	290
Inflammation Induced by Histamine, Serotonin, Bradykinin and Compound 48/80 in the Rat: Antagonists and Mechanisms of Action. HARRIET M. MALING, MARION E. WEBSTER, MARTHA A. WILLIAMS, WILFORD SAUL AND WILLIAM ANDERSON, JR.....	300
Mechanism of Cephaloridine Transport in the Kidney. BRUCE M. TUNE, MARIE FERNHOLT AND ALMA SCHWARTZ.....	311
The Binding Capacity of Albumin and Renal Disease. S. H. DROMGOOLE.....	318
Disposition of Sch 10595 in Animals and Man. S. SYMCHOWICZ AND M. STAUB.....	324
Adriamycin and Daunorubicin Disposition in the Rabbit. N. R. BACHUR, R. C. HILDEBRAND AND R. S. JAENKE.....	331
Studies of Positive Iodine Compounds as Models of the Thyroidal "Active Iodine": Reaction of N-Iodosuccinimide and of N-Iodophthalimide with Thiocarbamide Goitrogens. LUDĚK JIROUSEK AND MORRIS SOODAK.....	341

No. 3, DECEMBER 1974

Increased Fixed-Ratio Performance and Differential <i>d</i> - and <i>l</i> -Amphetamine Action Following Norepinephrine Depletion by Intraventricular 6-Hydroxydopamine. DALE W. PETERSON AND SHELDON B. SPARBER.....	349
Stimulus Control of Hexobarbital Narcosis and Metabolism in Mice. MARK ROFFMAN AND HARBANS LAL.....	358
Effect of Dibutyryl Cyclic Adenosine Monophosphate on ¹⁴ C-Dopamine Biosynthesis in Rat Brain Striatal Slices. BERTA ANAGNOSTE, CATHERINE SHIRRON, EITAN FRIEDMAN AND MENEK GOLDSTEIN.....	370
Effects of <i>d</i> -Amphetamine on Single Vestibular Neuros. EDWARD B. KIRSTEN, EUGENE P. SCHOENER AND S. C. WANG.....	377
Selective Inhibition of Dopamine- β -Hydroxylase in the Peripheral Tissues by 5-Dimethyldithiocarbamylpicolinic Acid; Its Effect on Stress-Induced Ulcer, Ethanol-Induced Sleep and Blood Pressure. HIROYOSHI HIDAKA, FUMIKO HARA, NOBUO HARADA, YOSHIO HASHIZUME AND MITUO YANO.....	384
Blockade of Heart ³ H-Norepinephrine Uptake by 4-Phenyl-1-Aminotetralines: Implications for the Active Conformation of Imipramine-Like Drugs. REINHARD SARGES, B. KENNETH KOE, ALBERT WEISSMAN AND JOHN P. SCHAEFER.....	393
Changes in Neuronal Uptake and Metabolism of, and Sensitivity to, Norepinephrine during the Degeneration Secretion in the Rat Submaxillary Gland. FRANCISCO J. E. STEFANO, CARLOS J. PEREC AND OMAR R. TUMILASCI.....	403
The Phenyl Rings of Tricyclic Antidepressants and Related Compounds as Determinants of the	

Potency of Inhibition of the Amine Pumps in Adrenergic Neurons of the Rabbit Aorta and in Rat Cortical Synaptosomes. R. A. MAXWELL, R. M. FERRIS, J. BURCSU, E. CHAPLIN WOODWARD, D. TANG AND K. WILLIARD.....	418
The Potentiation of Responses to Adrenergic Nerve Stimulation in the Presence of Cocaine: Its Relationship to the Metabolic Fate of Released Norepinephrine. S. Z. LANGER AND MARFA A. ENERO.....	431
Release of Norepinephrine and Dopamine- β -Hydroxylase by Nerve Stimulation. II. Effects of Papaverine. L. CUBEDDU, X., E. BARNES AND N. WEINER.....	444
Differential Effect of Metabolic Inhibitors on Myogenic Tone and Contractility in Isolated Tibial Arteries. S. GREENBERG, D. C. HEITZ, M. J. BRODY, W. R. WILSON, F. P. J. DIERKE AND J. P. LONG.....	458
Ontogenesis of Adrenergic and Cholinergic Neuroeffector Transmission in Chick Embryo Heart. ACHILLES J. PAPPANO AND KONRAD LÖFFELHOLZ.....	468
Increased Sensitivity of Sinoatrial Pacemaker to Acetylcholine and to Catecholamines at the Onset of Autonomic Neuroeffector Transmission in Chick Embryo Heart. KONRAD LÖFFELHOLZ AND ACHILLES J. PAPPANO.....	479
The Effect of Acetylcholinesterase Inhibitors on Systolic Time Intervals in the Nonfailing Human Heart. MICHAEL V. COHEN, ROBERT A. CHAHINE, MICHAEL D. KLEIN AND RICHARD GORLIN.....	487
Beta Receptor Blocking and Antiarrhythmic Properties of Tolamolol. ERVIN E. BAGWELL, JANE CUSTY, RONALD G. STEEN AND WALTER H. NEWMAN.....	496
Effect of Diphenylhydantoin and Lidocaine on Cardiac Arrhythmias Induced by Hypothalamic Stimulation. DELBERT E. EVANS AND RICHARD A. GILLIS.....	506
Sites of Acute Morphine Tolerance in Intestine. THOMAS F. BURKS AND MARGARET N. GRUBB.....	518
The Influence of Physiologic and Pharmacologic Factors on the Disposition of Morphine as Determined by Radioimmunoassay. BARRY A. BERKOWITZ, KENNETH V. CERRETA AND SYDNEY SPECTOR.....	527
Metabolism and Disposition of Methylphenidate- ^{14}C : Studies in Man and Animals. B. A. FARAJ, Z. H. ISRAILI, J. M. PEREL, M. L. JENKINS, S. G. HOLTZMAN, S. A. CUCINELL AND P. G. DAYTON.....	535
Metabolism and Biliary Excretion of Ethacrynic Acid. CURTIS D. KLAASSEN AND THOMAS J. FITZGERALD.....	548
Nitroprusside Produces Cyanide Poisoning <i>via</i> a Reaction with Hemoglobin. ROGER P. SMITH AND HARRIET KRUSZYNA.....	557
Lysosomal Enzyme Release <i>in Vivo</i> : An Evaluation of the Mechanism of Cobalt Polycythemia. ROBERT J. SMITH, LOUIS J. IGNARRO, PAUL M. HEIDGER AND JAMES W. FISHER.....	564
The Effects of Indomethacin on Erythropoietin Production in Dogs Following Renal Artery Constriction. I. The Possible Role of Prostaglandins in the Generation of Erythropoietin by the Kidney. VUJADIN M. MUJOVIC AND JAMES W. FISHER.....	575
Index, Volume 191, October-December 1974.....	581