

CONTENTS

Pharmacokinetics of Chloroquine Diphosphate in the Dog. A. Fadeke Aderounmu and Lawrence Fleckenstein	633
Reactivity and Binding of β-Lactam Antibiotics in Rabbit Renal Cortex. Marc C. Browning and Bruce M. Tune	640
Transport of Methotrexate in Cortical Slices of Monkey Kidney: Effect of Organic Anions and Vincristine. Theresa S. Chen, Barbara A. Wenczak and Kee C. Huang	645
Xylamine, an Irreversible Inhibitor of Norepinephrine Uptake, is Transported by This Same Uptake Mechanism in Cultured Rat Superior Cervical Ganglia. James B. Fischer, Lorene A. Waggaman, Richard W. Ransom and Arthur K. Cho	650
Phencyclidine Blood Protein Binding: Influence of Protein, pH and Species. S. Michael Owens, Michael Mayersohn and James R. Woodworth	656
Total Body Clearance of Circulating Benzo(a)Pyrene in Conscious Rats: Effect of Pretreatment with 3-Methylcholanthrene and the Role of Liver and Lung. David A. Wiersma and Robert A. Roth	661
Alpha-1 Adrenoceptors and Calcium in Isolated Canine Coronary Arteries. Thomas J. Rimele, Thom W. Rooke, Lawrence L. Aarhus and Paul M. Vanhoutte	668
Pre- and Postnatal Effects of Caffeine on Brain Biogenic Amines, Cyclic Nucleotides and Behavior in Developing Rats. James T. Concannon, J. Mark Braughler and Martin D. Schechter	673
Changes in the Sensitivity to Apomorphine of Dopamine Receptors Modulating Dopamine and Acetylcholine Release after Chronic Treatment with Bromocriptine or Haloperidol. L. X. Cubeddu, I. S. Hoffmann, M. K. James and D. M. Niedzwiecki	680
Sertraline, 1S,4S-N-Methyl-4-(3,4-Dichlorophenyl)-1,2,3,4-Tetrahydro-1-Naphthylamine, a New Uptake Inhibitor with Selectivity for Serotonin. B. Kenneth Koe, Albert Weissman, Willard M. Welch and Ronald G. Browne	686
Verapamil Inhibition of Vasopressin-Stimulated Water Flow: Possible Role of Intracellular Calcium. Ronald M. Burch and Perry V. Halushka	701
Functional Opiate Receptor in Mouse Vas Deferens: Evidence for a Complex Interaction. Pilar Sánchez-Blázquez, Javier Garzón and Nancy M. Lee	706
Evaluation of Presynaptic Histamine Receptors in the Canine Renal Vascular Bed. Norman W. Robie and Louis A. Barker	712
Differential Sensitivity of Ethanol Withdrawal Signs in the Rat to γ-Aminobutyric Acid (GABA)mimetics: Blockade of Audiogenic Seizures But Not Forelimb Tremors. Gerald D. Frye, Thomas J. McCown and George R. Breese	720
Antihypertensive Activity of <i>dl</i>-15-Deoxy-16-Hydroxy-16(α/β)-Vinyl-Prostaglandin E₂ Methyl Ester (CL 115,347), a New Orally and Transdermally Long-Acting Antihypertensive Agent. Peter S. Chan, Peter Cervoni, Margaret A. Ronsberg, Richard C. Accomando, Gerald J. Quirk, Patricia A. Scully and Lillian M. Lipchuck	726
Effect of Chronic Lithium Treatment on Rat Pineal Rhythms: N-Acetyltransferase, N-Acetylserotonin and Melatonin. Frank D. Yocca, Vincent de Paul Lynch and Eitan Friedman	733
Differential Effects of Prototype Opioid Agonists on the Acquisition of Conditional Discriminations in Monkeys. Joseph M. Moerschbaecher and Donald M. Thompson	738
Stimulation of Prostaglandin Production in Rabbit Ileal Mucosa by Bradykinin. Sally A. Hojvat, Mark W. Musch and Richard J. Miller	749
Effects of Drugs on Stimulus Control of Behavior. II. Degree of Stimulus Control as a Determinant of Effect. Jonathan L. Katz	756
Noradrenergic Modulation of Serotonin Synthesis and Metabolism. II. Stimulation by 3-Isobutyl-1-Methylxanthine. John F. Reinhard, Jr., Matthew P. Galloway and Robert H. Roth	764

Contents Continued on iv

This One



F6L1-CNO-NCFN

Opiate-Induced Enhancement of the Effects of Naloxone on Serum Luteinizing Hormone Levels in the Male Rat: Specificity for <i>Mu</i> Agonists. Theodore J. Cicero, Dennis P. Owens, Peter F. Schmoeker and Edward R. Meyer	770
Lorazepam and Pentobarbital Drug Discrimination in Baboons: Cross-Drug Generalization and Interaction with Ro 15-1788. Nancy A. Ator and Roland R. Griffiths	776
Physical Dependence on Diazepam and Lorazepam in the Dog. L. F. McNicholas, W. R. Martin and S. Cherian	783
Endothelium-Dependent Relaxation of Rabbit Aorta. I. Relaxation Stimulated by Arachidonic Acid. Harold A. Singer and Michael J. Peach	790
Endothelium-Dependent Relaxation of Rabbit Aorta. II. Inhibition of Relaxation Stimulated by Methacholine and A23187 with Antagonists of Arachidonic Acid Metabolism. Harold A. Singer and Michael J. Peach	796
Dopamine Antagonist Effect of Verapamil on Isolated Perfused Rabbit Ear Artery. Catherine E. Johnson, Odd S. Steinsland and Alexander Scriabine	802
Stimulation of Mouse Heart and Liver Microsomal Lipid Peroxidation by Anthracycline Anticancer Drugs: Characterization and Effects of Reactive Oxygen Scavengers. Edward G. Mimnaugh, Theodore E. Gram and Michael A. Trush	806
Effects of Chronic Nicotine Infusion on Tolerance Development and Nicotinic Receptors. Michael J. Marks, James B. Burch and Allan C. Collins	817
Mobilization of Cellular Choline by Stimulation of Muscarine Receptors in Isolated Chicken Heart and Rat Cortex <i>in Vivo</i>. Renato Corradetti, Ruth Lindmar and Konrad Löffelholz	826
A Study of the Kinetics of Chlorpromazine Sulfoxide by a Specific Radioimmunoassay after a Single Oral Dose of Chlorpromazine in Healthy Volunteers. P. K. F. Yeung, J. W. Hubbard, J. K. Cooper and K. K. Midha	833
High Anticonvulsant Potency of γ-Aminobutyric Acid (GABA)mimetic Drugs in Gerbils with Genetically Determined Epilepsy. W. Löscher, H.-H. Frey, R. Reiche and D. Schultz	839
Distribution of Valproic Acid and Its Metabolites in Various Brain Areas of Dogs and Rats after Acute and Prolonged Treatment. Wolfgang Löscher and Heinz Nau	845
Differential Role of M-1 and M-2 Receptors in Sympathetic Ganglia of the Pithed Normotensive Rat in <i>Alpha</i> Adrenoceptor-Mediated Vasoconstriction. B. Wilffert, D. Davidesko, P. B. M. W. M. Timmermans and P. A. van Zwieten	855
<i>Alpha</i> Adrenergic Receptor Subtypes in Human, Monkey and Dog Cerebral Arteries. Noboru Toda	861
Styrene Oxide Metabolism in Rhesus Monkey Liver: Enzyme Activities in Subcellular Fractions and in Isolated Hepatocytes. Gian Maria Pacifici, Bo Lindberg, Hans Glaumann and Anders Rane	869
Effects of Glial Uptake and Desensitization on the Activity of γ-Aminobutyric Acid (GABA) and Its Analogs at the Cat Dorsal Root Ganglion. Joel P. Gallagher, Jun Nakamura and Patricia Shinnick-Gallagher	876
Negative Chronotropic and Positive Inotropic Actions of Phencyclidine on Isolated Atrial Muscle in Guinea Pigs and Rats. Kyosuke Temma, Tai Akera, Theodore M. Brody and Richard H. Rech	885
Medullary γ-Aminobutyric Acid (GABA) Receptors and the Regulation of Blood Pressure in the Rat. Robert N. Willette, Abbott J. Krieger, Peter P. Barcas and Hreday N. Sapru	893
Enhancement by Locally Generated Angiotensin II of Release of the Adrenergic Transmitter in the Isolated Rat Kidney. Tatjana Böke and Kafait U. Malik	900
Erratum	908
Index, Volume 226, July-September, 1983	909