

CONTENTS

Inhibition of Calmodulin by Phenothiazines and Related Drugs: Structure-Activity Relationships. Walter C. Prozialeck and Benjamin Weiss	509
Pharmacological Studies on Sympathoinhibition Produced by the Medial Medullary Depressor Region: Proposed γ-Aminobutyric Acid Involvement in Inhibition of Somatosympathetic Reflexes. David G. Taylor, Kristina A. Taylor and Michael J. Antonaccio	517
<i>Trans</i>-Stilbene Oxide Administration Increased Hepatic Glucuronidation of Morphine but Decreased Biliary Excretion of Morphine Glucuronide in Rats. Carolyn Fuhrman-Lane and James M. Fujimoto	526
Effect of Treatment of Rats with Antidepressants on Melatonin Concentrations in the Pineal Gland and Serum. William E. Heydorn, David J. Brunswick and Alan Frazer	534
Stimulation on Fibrinolytic Activity in Human Skin Fibroblasts by Prostaglandins E₁, E₂ and I₂. David J. Crutchley, Lobella B. Conanan and James R. Maynard	544
Inhibition of Acetylcholine Turnover Rate in Rat Hippocampus and Cortex by Intraventricular Injection of Adenosine Analogs. T. F. Murray, William D. Blaker, D. L. Cheney and E. Costa	550
Characteristics of Adrenoceptors in a Nociceptive Pathway in the Mesencephalic Reticular Formation of the Rat. Timothy P. O'Neill and Henry J. Haigler	555
Cerebral Blood Vessels: Effects of Exogenous Acetylcholine and Field Stimulation on Norepinephrine Release. Sue Piper Duckles and Carolyn D. Kennedy	562
Influence of Adrenocorticotropin Hormone and Yohimbine on Antidepressant-Induced Declines in Rat Brain Neurotransmitter Receptor Binding and Function. D. A. Kendall, R. Duman, J. Slopis and S. J. Enna	566
Benzoate-Induced Changes in Glycine and Urea Metabolism in Patients with Chronic Renal Failure. William E. Mitch and Saul Brusilow	572
3,4-Diaminopyridine Alters Acetylcholine Metabolism and Behavior during Hypoxia. Christine Peterson and Gary E. Gibson	576
Suppression of Histamine-Induced Adrenocorticotropic Hormone Release by Antihistamines and Antidepressants. Margaret A. Reilly and Ernest B. Sigg	583
Interactions of Phenobarbital with Propranolol in the Dog. 1. Plasma Protein Binding. Stephen A. Bai and Fred P. Abramson	589
Mechanism of the Clonidine-Induced Protection against Acetylcholinesterase Inhibitor Toxicity. Jerry J. Buccafusco	595
Identification of the <i>Beta</i> Adrenergic Subtype on Astroglia Purified from Rat Brain. T. Kendall Harden and Ken D. McCarthy	600
<i>Beta</i> Adrenergically Mediated Release of Renin in the Dog is not Confined to Either <i>Beta</i>-1 or <i>Beta</i>-2 Adrenoceptors. Richard D. Olson, Alan S. Nies and John G. Gerber	606
Evidence for the Existence of Peptide and Nonpeptide Morphine-Like Materials in Mouse Brain: Effect of an Analgesic Intracerebroventricular Dose of Acetylcholine on Their Levels. Thuy T. Chau, Consuelo Izazola-Conde and William L. Dewey	612
Analysis of the 2-Deoxy-D-Glucose-Induced Vagal Stimulation of Gastric Secretion and Gastrin Release in Dogs Using Methionine-Enkephalin, Morphine and Naloxone. Wayne Anderson, E. Molina, J. Rentz and B. I. Hirschowitz	617
Effect of Prostaglandins on Pancreatic Circulation in Anesthetized Dogs. T. Homma and K. U. Malik	623
Solubilization and Characterization of Active Opiate Binding Sites from Mammalian Brain. Richard D. Howells, Theresa L. Gioannini, Jacob M. Hiller and Eric J. Simon	629
Role of Autoregulation in the Beneficial Action of Propranolol on Ischemic Blood Flow Distribution and Stenosis Severity in the Canine Myocardium. Garrett J. Gross, James D. Buck, David C. Wartier and Harold F. Hardman	635
Biochemical Evidence for Pulmonary Endothelial Cell Injury after Carbon Tetrachloride Administration in Mice. Manfred A. Hollinger	641
Stereochemical Requirements of <i>Alpha</i>-2 Adrenergic Receptors. Robert R. Ruffolo, Jr., Emily L. Yaden and James E. Waddell	645

Competitive Inhibition of 48/80-Induced Histamine Release by Benzalkonium Chloride and Its Analogs and the Polyamine Receptor in Mast Cells. George W. Read, Steven M. Hong and Edgar F. Kiefer	652
The Metabolism of Phenytoin by Isolated Hepatocytes and Hepatic Microsomes from Male Rats. Masanabu Tsuru, Richard R. Erickson and Jordan L. Holtzman	658
Effect of Increments in Norepinephrine Concentrations on Seizure Intensity in the Genetically Epilepsy-Prone Rat. Kwang Ho Ko, John W. Dailey and Phillip C. Jobe	662
Kindled Seizures Selectively Reduce a Subpopulation of [³H]Quinuclidinyl Benzilate Binding Sites in Rat Dentate Gyrus. Daniel D. Savage and James O. McNamara	670
Actions of Gabaergic Agents on Dopamine Metabolism in the Nigrostriatal Pathway of the Rat. Paul L. Wood	674
Pharmacological Evidence Favoring a Similarity between <i>Alpha</i> Adrenoceptors Mediating Sleep in Chicks and Cardiac Presynaptic <i>Alpha</i>-2 Receptors in Rats. Alan G. Roach, Françoise Lefèvre-Borg, Roberto Gomeni and Icilio Cavero	680
Mechanism of Action of Quinidine on Heart Rate in the Dog. Claude Chassaing, Pierre Duchene-Marullaz and Monique Paire	688
Effects of Nitroglycerin on Transmural Energy Metabolism in the Underperfused Canine Heart. Makie Higuchi	694
Chelation of Cadmium from Metallothionein <i>in Vivo</i> and Its Excretion in Rats Repeatedly Injected with Cadmium Chloride. M. George Cherian and Karen Rodgers	699
Quantitative Aspects of <i>Alpha</i> Adrenergic Effects Induced by Clonidine-Like Imidazolidines. I. Central Hypotensive and Peripheral Hypertensive Activities. A. de Jonge, P. B. M. W. M. Timmermans and P. A. van Zwieten	705
Quantitative Aspects of <i>Alpha</i> Adrenergic Effects Induced by Clonidine-Like Imidazolidines. II. Central and Peripheral Bradycardic Activities. A. de Jonge, P. B. M. W. M. Timmermans and P. A. van Zwieten	712
Effect of Diltiazem, a Calcium Antagonist, on Myocardial pH in Ischemic Canine Heart. Kazuo Ichihara and Yasushi Abiko	720
Central Vasopressor Responses to Conjugated Estrogens in Rats May be Mediated <i>Via</i> a Renin-Angiotensin System in the Brain. Hakuo Takahashi, Hiroshi Ashizawa, Kazuo Takeda, Seiichi Yoneda, Manabu Yoshimura and Hamao Ijichi ..	726
Termination of Responses to Sympathetic Nerve Stimulation and to Noradrenaline in a Perfused Arterial Preparation: The Role of Neuronal and Extraneuronal Uptake. Chi-Chung Chan and Stanley Kalsner	731
Ornithine Decarboxylase and Polyamines in Tissues of the Neonatal Rat: Effects of α-Difluoromethylornithine, a Specific, Irreversible Inhibition of Ornithine Decarboxylase. T. A. Slotkin, F. J. Seidler, P. A. Trepanier, W. L. Whitmore, L. Lerea, G. A. Barnes, S. J. Weigel and J. Bartolome	741
Impaired Development of Central and Peripheral Catecholamine Neurotransmitter Systems in Preweanling Rats Treated with α-Difluoromethylornithine, a Specific, Irreversible Inhibitor of Ornithine Decarboxylase. T. A. Slotkin, A. Grignolo, W. L. Whitmore, L. Lerea, P. A. Trepanier, G. A. Barnes, S. J. Weigel, F. J. Seidler and J. Bartolome	746
The Potentiation of Cardiac Responses to Adenosine by Benzodiazepine. Terry P. Kenakin	752
Evidence for the Presynaptic Localization of a High Affinity Opiate Binding Site on Dopamine Neurons in the Pedal Ganglia of <i>Mytilus Edulis</i> (Bivalvia). G. B. Stefano, R. S. Zukin and R. M. Kream	759
Effects of DNA Synthesis Inhibitors on Post-Traumatic Glial Cell Proliferation. Melvin L. Billingsley and H. George Mandel	765
Inhibition of Respiratory Neural Discharges by Clonidine and 5-Hydroxytryptophan. Donald R. McCrimmon and Peter M. Lalley	771
Inhibition of High Affinity Choline Uptake in the Hippocampus: Studies on the Site of Pentobarbital Action. Judith A. Richter and Joanne M. Gormley	778
Erratum	785
Index, Volume 222, July-September, 1982	787