CONTENTS

Selective Improvement in Subendocardial Perfusion Distal to a Flow-Limiting Coronary Artery Stenosis: Effects of the New Calcium Channel Blocking Agent, FR 34235, Nifedipine and Diltiazem. Garrett J. Gross and David C. Warltier .................................................. 531

Role of Sympathetic Nervous System in Ischemia-Induced Reduction of Digoxin Tolerance in Anesthetized Cats. Donghee Kim, Tai Akera and Lynne C. Weaver ............................................ 537

Antidepressant Drugs with Varying Pharmacological Profiles Alter Rat Pineal Beta Adrenergic-Mediated Function. Eitan Friedman, Frank D. Yocca and Thomas B. Cooper .......... 545

Dopamine Analog-Induced Hyperglycemia in Rats: Involvement of the Adrenal Medulla and the Endocrine Pancreas. Stephen P. Arneric, Samson A. Chow, John P. Long and Lawrence J. Fischer .............. 551

Comparison of the Effects of Sulindac with Other Cyclooxygenase Inhibitors on Prostaglandin Excretion and Renal Function in Normal and Chronic Bile Duct-Ligated Dogs and Swine. Edward J. Zambraski, A. N. Chremos and Michael J. Dunn .................................................. 560

Org. 6368: A Nondepolarizing Neuromuscular Blocking Agent with a Novel Effect on End-Plate Conductance. Nicholas N. Durant and Richard Horn ............................................. 567

Effects of Several Aminopyridines and Analogs on the Calcium Dependence of Synaptic Transmission. Mitsuhiko Matsumoto and William K. Riker ........................................... 573

Activation of Adenylate Cyclase by Alcohols Requires the Nucleotide-Binding Protein. Gary R. Luthin and Boris Tabakoff .......................................................... 579

Relationship Between N-Acetylator Phenotype and Susceptibility Toward Hydrazine-Induced Lethal Central Nervous System Toxicity in the Rabbit. David W. Hein and Wendell W. Weber .............. 588


Fragment C of Tetanus Toxin Antagonizes the Neuromuscular Blocking Properties of Native Tetanus Toxin. Lance L. Simpson .................................................. 600


Sensitivity and Responsiveness of Tracheal and Bronchial Tissues from Young and Old Guinea Pigs: Effect of Calcium Antagonists. Pamela G. Duncan and James S. Douglas .............. 612

Modification of Kindled Amygdaloid Seizures by Opiate Agonists and Antagonists. T. E. Albertson, R. M. Joy and L. G. Stark .................................................. 620

Discriminative Stimulus Properties of Quipazine: Mediation by Serotonin2 Binding Sites. Roberta L. Friedman, Robert J. Barrett and Elaine Sanders-Bush ......................... 628

Greater Potency of Mesoridazine and Sulforidazine Compared with the Parent Compound, Thoridazine, on Striatal Dopamine Autoreceptors. Diane M. Niedzwiecki, Richard B. Mailman and Luigi X. Cubeddu .............. 636

Agonist Interactions with Beta Adrenergic Receptors in Rat Brain. James M. O’Donnell, Barry B. Wolfe and Alan Frazer ...... 640

Comparison of [3H]Pirenzepine and [3H]Quinuclidinylbenzilate Binding to Muscarinic Cholinergic Receptors in Rat Brain. Gary R. Luthin and Barry B. Wolfe ............................................. 648

Physostigmine Inhibition of 3’,5’-Cyclic AMP Phosphodiesterase from Cat Sciatic Nerve. Winifred H. Curley, Frank G. Standaert and Kenneth L. Dretchen ............................................. 656


Contents Continued on iv
Effects of Naloxone, Diprenorphine, Buprenorphine and Etorphine on Unpunished and Punished Food-Reinforced Responding in the Squirrel Monkey. Sarah E. DeRossett and Stephen G. Holtzman ................................................................. 669

Biological Evaluation of Some Ionophore-Polymeric Chelator Combinations for Reducing Iron Overload. C. A. Tyson, S. E. LeValley, R. Chan, P. D. Hobbs and M. I. Dawson ................................................................. 676

Association Between Cyclic GMP Accumulation and Acetylcholine-Elicited Relaxation of Bovine Intrapulmonary Artery. Louis J. Ignarro, Theresa M. Burke, Keith S. Wood, Michael S. Wolin and Philip J. Kadowitz ................................................................. 682


Characterization of the Neurogenic Vasodilatation Elicited by Central Dopamine Receptor Stimulation with Pergolide. Mustafa F. Lokhandwala, Salah D. Kivilghin and Bhagavan S. Jandhyala ................................................................. 696

Evidence for an Alpha-1 Receptor-Mediated Central Sympathoinhibitory Action of Ketanserin. Robert B. McCall and Margaret R. Schuette ................................................................. 704

Effects of Nifedipine on Total Cardiac Output Distribution in Conscious Rat. Kohichi Kanda and Stephen F. Flaim ................................................................. 711

Central Nervous System Site of Action of Capsaicin-Induced Cardiovascular Changes in the Cat. John A. Quest, Janette Dias-Souza, Wesley P. Normam, Joseph R. Holtman, Jr. and Richard A. Gillis ................................................................. 719

Evidence that Exogenous but not Endogenous Norepinephrine Activates the Presynaptic Alpha-2 Andrenoceptors on Serotonergic Nerve Endings in the Rat Hypothalamus. A. M. Galzin, C. Moret and S. Z. Langer ................................................................. 725

Beta-1 and Beta-2 Adrenoceptor-Mediated Responses in Preparations of Pulmonary Artery and Aorta from Young and Aged Rats. Stella R. O'Donnell and Janet C. Wanstall ................................................................. 733


Mode of Action of Ciguatoxin from the Spanish Mackerel, Scomberomorus commersoni, on the Guinea-Pig Ileum and Vas Deferens. Richard J. Lewis and R. Endean ................................................................. 756

Comparative Effects of Calcium Channel Blocking Agents and Varying Extracellular Calcium Concentration on Hypoxia/Reoxygenation and Ischemia/Reperfusion-Induced Cardiac Injury. Douglas B. Fitzpatrick and Morris Karmazyn ................................................................. 761

Radioisomers of Scoparone (6,7-Dimethoxycoumarin) as a Tool for in Vivo Differentiation of Various Hepatic Monooxygenase Inducers in Mice Using the Breath Test Technique W. Legrum, L. Kling and E. Funke ................................................................. 769

Comparison of Different Clearance Estimates for Metoprolol in the Rhesus Monkey. Anders Rane, Stellan Hogstedt, Bo Lindberg, C.-G. Regårdh and Håkan Jorulf ................................................................. 774

Pharmacological, Hemodynamic and Autonomic Nervous System Mechanisms Responsible for the Blood Pressure and Heart Rate Lowering Effects of Pergolids in Rats. Icilio Cavero, Françoise Lefevre-Borg, François Lhoste, Catherine Sabatier, Christine Richer and Jean-François Giudicelli ................................................................. 779

Adenosine Attenuation of the Electrophysiological Effects of Isoproterenol on Canine Cardiac Purkinje Fibers. David P. Rardon and John C. Bailey ................................................................. 792


Index, Volume 228, January–March, 1984 ................................................................. 811