CONTENTS

Neurochemical and Behavioral Effects of Corticotropin-Releasing Factor in the Ventral Tegmental Area of the Rat. Peter W. Kalivas, Patricia Duffy and L. Greg Latimer .......................................................... 757

Norepinephrine Regulation of Alpha-1 Receptors and Alpha-1-Stimulated Phosphoinositide Hydrolysis in Primary Neuronal Cultures. Rosben A. Gonzales, Fulton T. Crews, Colin Summers and Mohan K. Raizada .......................................................... 764

Analysis of Putative Alpha-1s Adrenoceptor Agonism by Sgd 101/75 in the Rat Anococcygeus Muscle. M. K. James and H. J. Leighton .......................................................... 772

Reinforcing and Subjective Effects of Several Anorectics in Normal Human Volunteers. L. D. Chait, E. H. Uhlenhuth and C. E. Johanson .......................................................... 777


Adenosine Mediates the Negative Chronotropic Action of Adenosine 5'-Triphosphate in the Canine Sinus Node. Amir Pellegr, Takao Mitsuoka, Eric L. Michelson and Hyman Menduke .......................................................... 791


Discriminative Stimulus Properties of D1 and D2 Dopamine Agonists in Rats. Jonathan B. Kamien, Leon I. Goldberg and William L. Woolverton .......................................................... 804

Diltiazem and Autoregulation of Canine Cerebral Blood Flow. William J. Pearce and John A. Bevan .......................................................... 812


Lung Prostaglandin H Synthase and Mixed-Function Oxidase Metabolism of Nicotine. Michael B. Mattammal, Vijaya Id 147,798: A Novel Diuretic Agent with Beta Diltiazem and Autoregulation of Canine Cerebral Blood Flow. William J. Pearce and John A. Bevan .......................................................... 818

Characteristics and Neurochemical Correlates. David S. Segal and Ronald Kuczenski .......................................................... 917

Selective Gastric Antilesion Properties of Rioprostil, a Prostaglandin E1 Analog, in Rats and Dogs. L. B. Katz, D. A. Shriver, A. J. Tobia and M. E. Rosenthal .......................................................... 927

Ca++ Utilization in the Constriction of Rat Aorta to Stimulation of Protein Kinase C by Phorbol Dibutyrate. Andrew T. Chiu, Jeffrey M. Bozarth, Mark S. Forsythe and Pieter B. M. W. M. Timmermans .......................................................... 934

Mechanisms Mediating the Positive Inotropic and Chronotropic Changes Induced by Dopexamine in the Anesthetized Dog. Alan S. Bass, Jai D. Kohli, Nathan Lubbers and Leon I. Goldberg .......................................................... 934


Characterization of D-2 Dopamine Receptors in a Tumor of the Rat Anterior Pituitary Gland. Christopher Lin, Paul McGonigle and Perry B. Molinoff .......................................................... 950

Binding, Degradation and Pressor Activity of Angiotensins II and III after Aminopeptidase Inhibition with Amastatin and Bestatin. Raymond H. Abhold, Margaret J. Sullivan, John W. Wright and Joseph W. Harding .......................................................... 957

Contents Continued on iv
Contents continued from iii

Neurochemical Actions of Anesthetic Drugs on the γ-Aminobutyric Acid Receptor-Chloride Channel Complex. J. Pablo Huidobro-Toro, Virginia Bleck, Andrew M. Allan and R. Adron Harris .......................... 963


Effects of A23187, Exogenous Phospholipase A2 and Exogenous Arachidonic Acid on Pulmonary Vascular Resistance in Isolated Rabbit Lung. George A. Rachelson, Michael R. Littman, Gertrude M. Kazmi and Fred D. Lott .......................... 974

Solubilization with Digitonin Alters the Kinetics of Pirenzepine Binding to Muscarinic Receptors from Rat Forebrain and Heart. Jian-Xin Wang, Lin Mei, Henry I. Yamamura and William R. Roeseke .......................... 981

Thermodynamic Analyses of Pirenzepine Binding to Membrane-Bound and Solubilized Muscarinic Receptors from Rat Forebrain and Heart. Lin Mei, Jian-Xin Wang, William R. Roeseke and Henry T. Yamamura .......................... 991

Bupivacaine and Lidocaine Blockade of Calcium-Mediated Slow Action Potentials in Guinea Pig Ventricular Muscle. Dennis E. Coyle and Nicholas Sperelakis .......................... 1001

Selective Ganglionic Blockade of Vagal Inputs to Inotomotor and/or Atrioventricular Regions. Janis D. Fee, Walter C. Randall, Robert D. Wurster and Jeffrey L. Ardell .......................... 1006


Characteristics and Distribution of Specific Binding Sites for Leukotriene C4 in Human Bronchi. Maurizio Civelli, Daniela Oliva, Maurizio Mezzetti and Simonetta Nicosia .......................... 1019

Comparative Analysis of Beta-1 Adrenoceptor Agonist and Antagonist Potency and Selectivity of Ciloprolol, Xamoterol and Pindolol. Peter E. Hicks, Ilcilo Caveno, Philippe Manoury, Françoise Lefevre-Borg and Salomon Z. Langer .......................... 1025

Effects of L-652,731, a Platelet-Activating Factor (PAF) Receptor Antagonist, on PAF- and Complement-Induced Pulmonary Hypertension in Sheep. Barry W. Smallbone, Nancy E. Taylor and John W. D. McDonald .......................... 1035


Diuretic Effect Induced by Intrarenal Infusion of Pinacidil in Anesthetized Dogs. Shiro Morimoto, Yasuo Matsumura, Yasuto Sasaki, Toshio Takakawa and Masashi Kageyama .......................... 1050

Interaction between Neuronal Uptake Inhibitors and Presynaptic Serotonin Autoreceptors in Rat Hypothalamic Slices: Comparison of K+ and Electrical Depolarization. Francesca Passarelli, Anne-Marie Galin and Salomon Z. Langer .......................... 1056

Adenosine Inhibits Immunoglobulin E-Dependent Histamine Secretion from Human Basophil Leukocytes by Two Independent Mechanisms. Philip J. Hughes, R. Christopher Benyon and Martin K. Church .......................... 1064

Contribution of Substance P to Heat-Induced Edema in Rat Paw. Norifumi Yonehara, Tooru Shibutani and Reizo Inoki .......................... 1071

Pharmacological Analysis of the Cardiac Actions of Xamoterol, a Beta Adrenoceptor Antagonist with Partial Agonistic Activity, in Guinea Pig Heart: Evidence for Involvement of Adenylate Cyclase System in Its Cardiac Stimulant Actions. Yuichi Hattori, Ichiro Sakuma, Yasuo Nakao and Morio Kanno .......................... 1077

Impairment of the Extraneuronal O-Methylating System of Isoproterenol by Stop-Flow Ischemia in the Perfused Rat Heart. Masafumi Inoue, Keijoh Hifumi, Kazuyoshi Kurahashi and Motohatsu Fujiwara .......................... 1086

Effects of (-)-Desmethylverapamil on Heart and Vascular Smooth Muscle. Hermann Nawrath and Manfred Raschack .......................... 1090

Effects of Ethanol on Electrophysiological Properties of Rat Skeletal Myotubes in Culture. Chaya Brodie and S. R. Sampson .......................... 1098

Effects of Chronic Ethanol Treatment on Membrane Potential, Its Electrogenic Pump Component and Na-K Pump Activity of Cultured Rat Skeletal Myotubes. Chaya Brodie and S. R. Sampson .......................... 1104

Inhibition of Ischemia-Induced Subcellular Redistribution of Lysosomal Enzymes in the Perfused Rat Heart by the Calcium Entry Blocker, Diltiazem. Kazuo Ichihara, Takashi Haneda, Sokichi Onodera and Yasushi Abiko .......................... 1109

Effect of Lidocaine on the Myocardial Acidosis Induced by Coronary Artery Occlusion in Dogs. Naomi Matsumura, Hisao Matsamura and Yasushi Abiko .......................... 1114

Palytoxin-Induced Contraction and Release of Prostaglandins and Noradrenaline in the Aorta. Hiromi Nagase and Hideaki Karaki .......................... 1120

Protective Effects of Bepridil on Calcium Injury of Anoxic Myocytes Isolated from Adult Rat Heart Ventricular Muscle. C. Cruz, A. Zaoui, G. Berson and A. Younes .......................... 1126

Inhibition of Mitochondrial β-Oxidation of Fatty Acids by Pirprofen. Role in Microvesicular Steatosis Due to This Nonsterol Anti-Inflammatory Drug. Jean Geneve, Brigitte Hayat-Bonan, Gilles Labbe, Claude Degott, Philippe Lettiero, Eric Frenex, The Le Dinh, Dominique Larrey and Dominique Pesayre .......................... 1133


1,2,3,6-Tetrahydro-1-Methyl-4-(Methylpyrrol-2-yl)Pyridine: Studies on the Mechanism of Action of 1-Methyl-4-phenyl-1,2,3,6-Tetrahydro-1-Methylpyrrol-2-yl. Kevin K. T. Peng, Ian A. Reid, Louis E. DeLanney, George A. Ricaurte and J. William Langston .......................... 1144

Effects of Serotonin1 and Serotonin2 Receptor Agonists and Antagonists on Blood Pressure, Heart Rate and Sympathetic Nerve Activity. Robert B. McCall, Binita N. Patel and Lorri T. Harris .......................... 1152

Index, Volume 242, July-September 1987 .......................... 1160