CONTENTS

Distribution of 2,4,5,2',4',5'-Hexachlorobiphenyl among Lipoproteins during Pregnancy and Lactation in the Rat. Mary Spindler-Vomachka and Mary Jo Vodicnik ......................................................... 263

Urea Distribution Kinetics Analyzed by Simultaneous Injection of Urea and Inulin: Demonstration that Transcapillary Exchange is Rate Limiting. Dennis J. Bowsher, Michael J. Avram, Marilynn C. Frederiksen, Akira Asada and Arthur J. Atkinson, Jr. ................................................................. 269


Pharmacologic Identification, Activation and Antagonism of Two Muscarine Receptor Subtypes in the Lower Esophageal Sphincter. Richard Gilbert, Sathiah Rattan and Raj K. Goyal ................................................................. 284

Potentiation of Paraquat Lethality in Mice by Bacterial Lipopolysaccharide Pretreatment. Mannfred A. Hollinger ............................................................... 292

Prostaglandin-Vasopressin Interactions on the Renal Handling of Calcium and Magnesium. Richard J. Roman, Meredith Skelton and Claude Lechene ................................................................. 296


Effects of Anticonvulsants on Learning: Performance of Pigeons Under a Repeated Acquisition Procedure When Exposed to Phenobarbital, Clonazepam, Valproic Acid, Ethosuximide and Phenyltoin. Mitchell Picker and Alan Poling ................................................................. 307

Characterization of Alpha-1 Adrenergic Receptors Linked to [3H]Inositol Metabolism in Rat Cerebral Cortex. Kenneth P. Minneman and Ronald D. Johnson ................................................................. 317

Effects of L-Tryptophan on Blood Pressure in Normotensive and Hypertensive Rats. William A. Wolf and Donald M. Kuhn ............................................................................................. 324

Imipramine and Its Metabolites: Relationship to Cerebral Catecholamines in Rats in Vivo. Amiram I. Barkai, Raymond F. Suckow and Thomas B. Cooper ................................................................. 330

Indirect Stimulatory Action of the Calcium Channel Blocker AQA-39. Ferdinand Urtgheier and Alfred A. Walker ................................................................. 336

Roles of Mu, Delta and Kappa Opioid Receptors in Spinal and Supraspinal Mediation of Gastrointestinal Transit Effects and Hot-Plate Analgesia in the Mouse. Frank Porreca, Henry I. Mosberg, Robin Hurst, Victor J. Hruby and Thomas F. Burks ............................................................................................. 341

Action of Peptidase Inhibitors on Methionine5-Enkephalin-Arginine6-Phenylalanine7 (YGGFMRF) and Methionine5-Enkephalin (YGGFM) Metabolism and on Electroacupuncture Antinociception. J. Chou, J. Tang, J. Del Rio, H.-Y. T. Yang and E. Costa ................................................................. 349


Identification of 2-Bromohydroquinone as a Metabolite of Bromobenzene and o-Bromophenol: Implications for Bromobenzene-Induced Nephrotoxicity. Serrine S. Lau, Terrence J. Monks and James R. Gillette ................................................................. 360


Comparative Actions of Dihydropyridine Slow Channel Calcium Blocking Agents in Conscious Dogs: Alterations in Baroreflex Sensitivity. David C. Wartier, Mark G. Zyvoloski, Garrett J. Gross and Harold L. Brooks ................................................................. 376

A Novel Phencyclidine Analog Interacts Selectivity with Mu Opioid Receptors. Yossef Itzhak and Eric J. Simon ................................................................. 383

Alpha-1 Adrenoceptor Selectivity of Phenoxybenzamine in the Rat Kidney. Donald D. Smyth, Satoshi Umemura and William A. Pettinger ................................................................. 387

Hypotensive and Hemostatic Properties of Rattlesnake (Crotalus viridis helleri) Venom and Venom Fractions in Dogs. Richard C. Schaeffer, Jr., Carolyn Briant, Shawn-Marie Chilton and Richard W. Carlson ................................................................. 393

Behavioral Dependence Produced by Continuous Phencyclidine Infusion in Rhesus Monkeys. Barbara L. Slater, Robert L. Balster and William L. Woolverton ................................................................. 399

Anticonvulsant and Antipunishment Effects of Toluene. Ronald W. Wood, John B. Colemen, Robyn Schuler and Christopher Cox ................................................................. 407

Contents Continued on ii
Induction of Ca** Influx and Intracellular Ca** Release in Isolated Rat Aorta and Mesenteric Resistance Vessels by Norepinephrine Activation of Alpha-1 Receptors. Cynthia Cauvin and Shahid Malik .......................... 413
Ontogeny of Cardiac Ornithine Decarboxylase and Its Beta Adrenergic Responsiveness in the Rat. Susan P. Miska, Gary L. Kimmel, James R. Harmon and Peggy Webb ......................................................... 419
Modulation of Muscarinic Cholinergic Receptor Affinity for Antagonists in Rat Heart. Michael W. Martin, McHardy M. Smith and T. Kendall Harden .................................................. 424
Modulation of Rat Pineal Acetyl-Co A: Arylamine N-Acetyltransferase Induction by Alpha Adrenergic Drugs. Larry Alphs and Walter Lovenberg .................................................. 431
Analysis of the Behavioral Activity of C- and N-Terminal Fragments of Cholecystokinin Octapeptide. Jacqueline N. Crawley, Serge St-Pierre and Pierrette Gaudreau ................................ 438
Mechanical Trauma to Bladder Epithelium Liberates Prostanoids which Modulate Neurotransmission in Rabbit Detrusor Muscle. J. W. Downie and M. Karmazyn .......................... 445
Heterogeneity of Beta Adrenoceptors in Right Atria Isolated from Cold-Exposed Rats. Maria Lucia Callia and Sergio de Moraes ................................................................. 450
Enhanced Activity of the $-Endorphinergic System in the Anterior and Neurointermediate Lobe of the Rat Pituitary after Chronic Treatment with Ethanol Liquid Diet. Bernd R. Seizinger, Klaus Bovermann, Volker Höllt and Albert Herz .................................................. 455
Effects of 2-Nicotinamidoethyl Nitrate (Nicorandil) on Excitation-Contraction Coupling in the Smooth Muscle Cells of Rabbit Ear Artery. M. Kajiwara, G. Droogmans and R. Casteels .................................................. 462
Capsaicin and Bradykinin-Induced Substance P-ergic Responses in the Iris Sphincter Muscle of the Rabbit. Naoko Ueda, Ikuo Muramatsu and Motohatsu Fujiwara .......................... 469
Flow Dependence of Propranolol Elimination in Perfused Rat Liver. S. Keiding and E. Steiness .......................... 474
Inhibitory Effects of Salicylate on Contractility in Skeletal Muscle. G. Suarez-Kurtz, M. Josefina Braga da Costa and Solange Coutinho .................................................. 478
Adenosine Inhibition of Catecholamine-Induced Increase in Force of Contraction in Guinea-Pig Atrial and Ventricular Heart Preparations. Evidence Against a Cyclic AMP- and Cyclic GMP-Dependent Effect. Michael Böhm, Reinhard Brückner, Ingeborg Hackbart, Bernd Haubitz, Rainer Linhart, Wilfried Meyer, Bettina Schmidt, Wilhelm Schmitz and Hasso Scholz .................................................. 483
Presynaptic Inhibitory Effect of Met-Enkephalin on [**C]Acetylcholine Release from the Myenteric Plexus and Its Interaction with Muscarinic Negative Feedback Inhibition. E. Sylvester Vizi, Kazumi Ono, Vera Adam-Vizi, Deryck Duncalp and Francis F. Földes .................................................. 493
Evidence for the Involvement of Arachidonic Acid Metabolites in Spontaneous and Drug-Induced Contractions of Rat Urinary Bladder. Carlo Alberto Maggi, Stefano Evangelista, Guglielmo Grimaldi, Paolo Santicioli, Alessandro Giolitti and Alberto Meli .......................... 500
Contractile Activity of Human Coronary Arteries and Human Myocardium in Vitro and Their Sensitivity to Calcium Entry Blockade by Nifedipine. Théophile Godfraind, Michel Finet, Jadson Socrates Lima and Robert C. Miller .................................................. 514
Antiarrhythmic and Antifibrillatory Actions of the Beta Adrenergic Receptor Antagonist, dl-Sotalol. Eugene Patterson, Joseph J. Lynch and Benedict R. Lucchesi .......................... 519