CONTENTS


Cyclooxygenase Inhibition Unmasks the Full Antidiuretic Agonist Activity of the Vasopressin Antagonist, SK&F 101926, in Dogs. Christine R. Albrightson-Winslow, Nancy Caldwell, David P. Brooks, William F. Huffman, Frans L. Stassen and Lewis B. Kinter ............................................. 366

Pharmacokinetics and pharmacodynamics of Atrial Natriuretic Peptide After Bolus and Infusion Administration in the Isolated Perfused Rat Kidney. Michael E. Brier and George B. Harding .......................................................... 372


In Vivo Metabolism of Atrial Natriuretic Peptide: Identification of Plasma Metabolites and Enzymes Responsible for Their Generation. Philip A. Krieter, Gillian M. Olins, Sheldon P. Verrett and Richard C. Durley .......................................................... 401


Unsurmountable Antagonism to 5-Hydroxytryptamine in Rat Kidney Results from Pseudoirreversible Inhibition Rather Than Multiple Receptors or Allosteric Receptor Modulation. Richard A. Bond, Alex G. Ornstein and David E. Clarke .......................................................... 401

Benzodiazepine and Beta-Carboline Interactions with GABA Receptor-gated Chloride Channels in Mammalian Cultured Spinal Cord Neurons. Ashok K. Mehta and Maharaj K. Ticku .......................................................... 418


Kinin Contributes to the Contractile Effects of Rat Glandular Kallikrein on the Isolated Rat Uterus. Gabriel G. Orce, O. A. Carretero, G. Scicli and A. G. Scicli .......................................................... 470


Contents Continued on iv
Alpha Adrenoceptor Agonist Stimulation of Oxygen Consumption in Rat Proximal and Distal Nephrons. Frank A. Gesek and Jack W. Strandhoy 529

Characterization of Serotonin-1B Receptors Negatively Coupled to Adenylate Cyclase in OK Cells, a Renal Epithelial Cell Line from the Opossum. T. J. Murphy and David B. Bylund 535


Characterization of the Pharmacokinetic Interaction between Nifedipine and Ethanol in the Rat. Kathleen M. Boje and Ho-Leung Fung 567

Pharmacological Characterization of Neural Mechanisms Regulating Mucosal Ion Transport in Mouse Jejunum. Russell J. Sheldon, Margaret E. Malarchik, Deborah A. Fox, Thomas F. Burks and Frank Porreca 572

Human Fat Cell Alpha-2 Adrenoceptors. I. Functional Exploration and Pharmacological Definition with Selected Alpha-2 Agonists and Antagonists. Jean Galitzky, Pascale Mauriege, Michel Berlan and Max Lafontan 583


Pharmacokinetic Modeling of the Anticonvulsant Action of Phenobarbital in Rats. Jasper Dingemanse, Joost B. M. M. van Bree and Meindert Danhof 601

Inhibition of Converting Enzyme in the Cerebrospinal Fluid of Rats after Oral Treatment with Converting Enzyme Inhibitors. Peter Gohike, Hansjorg Urbach, Bernward Scholkens and Thomas Unger 609

Mexiletine-Quinidine Combination: Enhanced Antiarrhythmic and Electrophysiologic Activity in the Dog. Henry J. Duff 617

Activation of Heart Sarcoplasmic Reticulum Ca++-Stimulated Adenosine Triphosphatase by Insulin. Mahesh P. Gupta, Sheu-Lun Lee and Naranjan S. Dhalla 623

Metabolic Changes in Glutathione and Metallothionein In Newborn Rat Liver. Karen R. Gallant and M. George Cherian 631


Interaction of 8-(N,N-Diethylamino)Octyl 3,4,5-Trimethoxybenzoate Hydrochloride, Ryanodine and Procaine with Muscarinic Cholinergic M3 Receptor Sites in Smooth Muscle. Tetsuhiro Hisayama, Issei Takayanagi, Naomi Kumagai and Haruichi Kubo 646


Catechol and Indole Metabolism in Rostral Ventrolateral Medulla Change Synchronously with Changing Blood Pressure. D. Bhaskaran and Curt R. Freed 660

Potentiation of 3-Methylcholanthrene Induction of Rat Hepatic Cytochrome P450IA1 by Dexamethasone in Vivo. Amanda J. Sherratt, Duane E. Banet, Mark W. Linder and Russell A. Prough 667