CONTENTS

In Vivo Studies on Spinal Opiate Receptor Systems Mediating Antinociception. II. Pharmacological Profiles Suggesting a Differential Association of Mu, Delta and Kappa Receptors with Visceral Chemical and Cutaneous Thermal Stimuli in the Rat. Claudia Schmauss and Tony L. Yaksh .......................................................... 1

Pulmonary Fate of [*H]Bleomycin A3 in Mice. John S. Lazo and Esther T. Pham .................................................. 13

Morphine-Morphine Glucuronide Pools in the Rat Liver: Effects of Triton X-100. Edward F. Sweeney, Carol Fuhrman-Lane and James M. Fujimoto .......................................................... 19

Differential Effects of Intravenous Vs. Intracoronary Nifedipine on Myocardial Segment Function in Ischemic Canine Hearts. Kathryn A. Lamping and Garrett J. Gross .................................................. 28

Relaxation of Intrapulmonary Artery and Vein by Nitrogen Oxide-Containing Vasodilators and Cyclic GMP. James C. Edwards, Louis J. Ignarro, Albert H. Hyman and Philip J. Kadowitz .................................................. 33

Reinstatement of Responding Maintained by Cocaine or Thiamylal. William Slikker, Jr., Mauricette J. Brocco and Keith F. Killam, Jr. .......................................................... 43

Serotonin Formation in Nonblood-Perfused Rat Kidneys. Charles T. Stier, Jr., George McKendall and Harold D. Itakowicz .......................................................... 53


Renal Transport of Netilmicin in the Rat. Enrique Pastoriza-Munoz, Daniel Timmerman and George J. Kaloyanides .......................................................... 65

Interaction of Bicycle-Octane Analogs of Amantadine with Ionic Channels of the Nicotinic Acetylcholine Receptor and Electrically Excitable Membrane. Jordan E. Warnick, Mohammed A. Maleque and Edson X. Albuquerque .................................................. 73

Discriminant Effects of Behaviorally Active and Inactive Analogs of Phencyclidine on Membrane Electrical Excitability. Luis G. Aguayo, Harel Weinstein, Saul Maayani, Stanley D. Glick, Jordan E. Warnick and Edson X. Albuquerque .................................................. 80

Opioid Receptor Selectivity of Dynorphin Gene Products. Iain F. James, Walter Fischli and Avram Goldstein .................................................. 88

Differential Effects of Hallucinogenic Drugs on the Activity of Serotonin-Containing Neurons in the Nucleus Centralis Superior and Nucleus Raphe Pallidus in Freely Moving Cats. Michael E. Trulson, Donald W. Preussler and Violet M. Trulson .................................................. 94


Novel Inhibitors of γ-Aminobutyric Acid (GABA) Uptake: Anticonvulsant Actions in Rats and Mice. Libby M. Young, Philip J. Fowler, Peter Zarevics and Paulette E. Setler .................................................. 109

Immunoglobulin G- and Immunoglobulin E-Mediated Airway Smooth Muscle Contraction in the Guinea Pig. Jean F. Regal .......................................................... 116

Effects of Primidone, Phenobarbital and Phenylethylmalonamide in the Stimulated Frog Neuromuscular Junction. Paul A. Talbot and Marc T. Alderice .................................................. 121

SK&F 88046: A Unique Pharmacologic Antagonist of Bronchoconstriction Induced by Leukotriene D4, Thromboxane and Prostaglandins F2α and D2 in Vitro. Barry M. Weichman, Martin A. Wasserman and John G. Gleason .................................................. 128

Differential Actions of Serotonin Antagonists on Two Behavioral Models of Serotonin Receptor Activation in the Rat. Irwin Lucki, Mitchell S. Nobler and Alan Frazer .................................................. 133

Influence of Renal Lipoxynagenase Activity on the Renal Vascular Response to Arachidonic Acid. Larry P. Feigen .................................................. 140

Structure-Activity Relationship Studies of Phencyclidine Derivatives in Rats. Edward J. Cone, Roy L. McQuinn and Harlan E. Shannon .................................................. 147

Contents Continued on iv