

CONTENTS

Interactions of Edrophonium, Physostigmine and Methanesulfonyl Fluoride with the Snake End-Plate Acetylcholine Receptor-Channel Complex. Jerome F. Fiekers	539
Additive Protection of Cimetidine and N-Acetylcysteine Treatment against Acetaminophen-Induced Hepatic Necrosis in the Rat. K. V. Speeg, Jr., Mack C. Mitchell and Alma L. Maldonado	550
Modulation of <i>Beta</i> Adrenergic Responsiveness by Arachidonic Acid Metabolites in Isolated Bovine Coronary Arteries. Gabor M. Rubanyi and Richard J. Paul	555
Coexistence of <i>Beta</i>-1 and <i>Beta</i>-2 Adrenergic Receptors in the Human Heart: Effects of Treatment with Receptor Antagonists or Calcium Entry Blockers. Anders Hedberg, Francis Kempf, Jr., Mark E. Josephson and Perry B. Molinoff	561
Development of Tolerance to Chronic Barbitol Treatment in the Cerebellar Cyclic Guanosine Monophosphate System and Its Response to Subsequent Barbitol Abstinence. Shelly J. Lane and William W. Morgan	569
Effect of Gossypol on Erythrocyte Membrane Function: Specific Inhibition of Inorganic Anion Exchange and Interaction with Band 3. Howard C. Haspel, Robert E. Corin and Martin Sonenberg	575
Effect of Hypoxia and Pregnancy on Antipyrine Metabolism in Isolated Perfused Rat Livers. Kim L. R. Brouwer and Mary Vore	584
Neurally Mediated Nonadrenergic Relaxation in Cat Airways Occurs Independent of Cholinergic Mechanisms. Ralph J. Altieri, John L. Szarek and Louis Diamond	590
Nimodipine and Inhibition of <i>Alpha</i> Adrenergic Activation of the Isolated Canine Saphenous Vein. J. P. Cooke, T. J. Rimele, N. A. Flavahan and P. M. Vanhoutte	598
Morphine-Induced Mydriasis and Inhibition of Pupillary Light Reflex and Fluctuations in the Cat. W. B. Pickworth and L. G. Sharpe	603
Lead Induction of Crop Dysfunction in Pigeons Through a Direct Action on Neural or Smooth Muscle Components of Crop Tissue. Ivan J. Boyer, Deborah A. Cory-Slechta and Victor DiStefano	607
An Investigation of the Mechanism of Lead-Induced Relaxation of Pigeon Crop Smooth Muscle. Ivan J. Boyer and Victor DiStefano	616
Kinetics of Drug Action in Disease States. XIV. Effect of Infusion Rate on Pentylene-tetrazol Concentrations in Serum, Brain and Cerebrospinal Fluid of Rats at Onset of Convulsions. Iqbal M. Ramzan and Gerhard Levy	624
Effects of the Calcium Antagonists Perhexiline and Cinnarizine on Vascular and Cardiac Contractile Protein Function. Paul J. Silver, John Dachiw, Joan M. Ambrose and Patricia B. Pinto	629
Effects of Albumin and <i>Alpha</i>-1 Acid Glycoprotein on Elimination of Prazosin and Antipyrine in the Isolated Perfused Rat Liver. Svein Øie and Frank Fiori	636
Acetylcholine- and 5-Hydroxytryptamine-Stimulated Contraction and Calcium Uptake in Bovine Coronary Arteries: Evidence for Two Populations of Receptor-Operated Calcium Channels. Paul H. Ratz and Stephen F. Flaim	641
Effects of Metaphit, a Proposed Phencyclidine Receptor Acylator, on Catalepsy in Pigeons. Wouter Koek, Rebecca Head, Elzbieta J. Holsztyńska, James H. Woods, Edward F. Domino, Arthur E. Jacobson, Michael F. Rafferty, Kenner C. Rice and Ralph A. Lessor	648
Phencyclidine (PCP) Disposition Kinetics in Dogs as a Function of Dose and Route of Administration. James R. Woodworth, S. Michael Owens and Michael Mayersohn	654
Phenotypic Differences in Mephenytoin Pharmacokinetics in Normal Subjects. P. J. Wedlund, W. S. Aslanian, E. Jacqz, C. B. McAllister, R. A. Branch and G. R. Wilkinson	662
Influence of Hepatic Oxidative Metabolism on the Immunosuppressive Activities of 6-Thiopurines. Robert T. Abraham, Linda M. Benson and Ian Jardine	670
Ventilatory Response to Intravenous Methionine Enkephalin in Awake Dogs. Myron J. Evanich, Gary E. Sander, Janet C. Rice and Thomas D. Giles	677

Contents Continued on iv

Neuronal and Postjunctional Components in the Blood Pressure Effects of Dopamine and Bromocriptine in Rabbits. Hermann Ensinger, Henryk Majewski, Liselotte Hedler and Klaus Starke	681
Alteration of Transit Time and Direction of Flow to Probe the Heterogeneous Distribution of Conjugating Activities for Harmol in the Perfused Rat Liver Preparation. Janet R. Dawson, Jeannette G. Weitering, Gerard J. Mulder, Richard N. Stillwell and K. Sandy Pang	691
Existence of Two Types of Postjunctional <i>Alpha</i> Adrenoceptors in the Isolated Canine Intermediate Auricular Artery. Takashi Ito and Shigetoshi Chiba	698
Binding of Drugs with a Quaternary Ammonium Group to <i>Alpha-1</i>-Acid Glycoprotein and Asialo <i>Alpha-1</i> Acid Glycoprotein. Peter van der Sluijs and Dirk K. F. Meijer	703
Action of Trimebutine in Cat and Rabbit Colon: Evidence of an Opioid-Like Effect. France Blanquet, Michel Bouvier and Jean Gonella	708
Dopamine Regulation of [³H]Acetylcholine Release from Guinea-Pig Stomach. M. Kusunoki, K. Taniyama and C. Tanaka	713
Significance of Skeletal Muscle Digitalis Receptors for ³H-Ouabain Distribution in the Guinea Pig. Keld Kjeldsen, Aage Nørgaard, Otto Hansen and Torben Clausen	720
Undifferentiated Effects of Calcium Antagonists on Pressor Responses to Selective <i>Alpha-1</i> and <i>Alpha-2</i> Adrenoceptor Agonists in Anesthetized, Spinal Dogs. Tominori Morita, Takashi Maniwa, Keisuke Satoh and Norio Taira	728
Neuropeptide Y Potentiates Noradrenaline-Evoked Vasoconstriction: Mode of Action. C. Wahlestedt, L. Edvinsson, E. Ekblad and R. Håkanson	735
Cyclooxygenase Inhibitors Affect Met-enkephalin- and Acetylcholine-Stimulated Motility of the Isolated Rat Colon. U. Scheurer, E. Drack and F. Halter	742
Inhibitory Effect of Acetazolamide on Renal Tubular Reabsorption of NaHCO₃ and NaCl in Dogs Varies Inversely with Plasma pH. Harald Langberg, Anders Hartmann and Fredrik Kiil	747
Peroral Treatment of Diabetes Insipidus with a Polypeptide Hormone Analog, Desmopressin. Mogens Hammer and Hans Vilhardt	754
Natural (-)- and Unnatural (+)-Enantiomers of Morphine: Comparative Metabolism and Effect of Morphine and Phenobarbital Treatment. Anders Rane, Barbara Gawronska-Szklarz and Jan-Olof Svensson	761
Cardiac Effects of Adenosine and Adenosine Analogs in Guinea-Pig Atrial and Ventricular Preparations: Evidence against a Role of cyclic AMP and cyclic GMP. Reinhard Brückner, Almut Fenner, Wilfried Meyer, Till-Moritz Nobis, Wilhelm Schmitz and Hasso Scholz	766
Motor-Stimulating Properties of Cisapride on Isolated Gastrointestinal Preparations of the Guinea Pig. J. A. J. Schuurkes, J. M. Van Nueten, P. G. H. Van Daele, A. J. Reyntjens and P. A. J. Janssen	775
High-Affinity Cannabinoid Binding Sites in Brain Membranes Labeled with [³H]-5'-Trimethylammonium Δ^9-Tetrahydrocannabinol. Jeffrey S. Nye, Herbert H. Seltzman, Colin G. Pitt and Solomon H. Snyder	784
Hyper-noradrenergic Innervation of the Caudal Artery of the Spontaneously Hypertensive Rat: An Influence upon Neuroeffector Mechanisms. Lisa A. Cassis, Robert E. Stitzel and Richard J. Head	792
Thioglucose Interactions with a "Gold Thioglucose-Lesioned Glucostat." Mary Ann Marrazzi, Wes McRae and James A. Brown	804
Dose- and Time-Dependent Biphasic Response to Morphine on Intestinal Migrating Myoelectric Complex. Sushil K. Sarna and Ivan M. Lang	814
Barbiturate-Induced Alterations in the Kinetic Parameters of Slow Outward Current in <i>Aplysia</i> Giant Neurons. John R. Huguenard and Wilkie A. Wilson	821
Influence of the Blood-Brain pH Gradient on Brain Phenobarbital Uptake during Status Epilepticus. R. P. Simon, N. Benowitz, R. Hedlund and J. Copeland	830
Index, Volume 234, July-September 1985	837