

Contents

Outcome of Pregnancy in Rats Chronically Exposed to <i>l</i>-α-Acetylmethadol (LAAM). L. Lichtblau and S. B. Sparber	303
Action of Lithium on the Adrenergic Nerve Ending. Orren Beaty III, Michael G. Collis and John T. Shepherd	309
Narcotics and Diabetes. I. The Effects of Streptozotocin-Induced Diabetes on the Antinociceptive Potency of Morphine. Glenn Stuart Simon and William L. Dewey	318
Narcotics and Diabetes. II. Streptozocin-Induced Diabetes Selectively Alters the Potency of Certain Narcotic Analgesics. Mechanism of Diabetes: Morphine Interaction. Glenn Stuart Simon, Joseph Borzelleca and William L. Dewey	324
Effects of Acetylcholine Mustard Analogs on Schistosome and Vertebrate Neuromuscular Preparations. William S. Willcockson, Mohammad Khalid, Ahmed E. Ahmed and Gilbert R. Hillman	330
Cholinergic Adaptations to Chronic Oxotremorine Infusion. Michael J. Marks, Linda D. Artman, Douglas M. Patinkin and Allan C. Collins	337
A Radioimmunoassay for 5-Methyltetrahydrohomofolate. Kei-Lai L. Fong, Dah Hsi W. Ho, Robert S. Benjamin, Frank Yang, Jennifer Sickler, Nita S. Brown and Gerald P. Bodey	344
Relative Inotropic and Arrhythmogenic Effects of Five Cardiac Steroids in Ventricular Myocardium. Oscillatory Afterpotentials and the Role of Endogenous Catecholamines. Hrayr S. Karagueuzian and Bertram G. Katzung	348
Tissue Binding Sites Involved in Quinidine-Cardiac Glycoside Interactions. Dong-Hee Kim, Tai Akera and Theodore M. Brody	357
Heme Enhances Hexobarbital Metabolism in Perfused Rat Liver after Drug-Mediated Destruction of Cytochrome P-450. Geoffrey C. Farrell, John L. Gollan, Maria Almira Correia and Rudi Schmid	363
Renal Elimination of Digoxin: Studies with Tritiated Digoxin and Radioimmunoassay. Teut Risler, John C. Somberg and Thomas W. Smith	368
Vascular Smooth Muscle Contraction Induced by Direct Electrical Stimulation and Its Subsequent Effect on Reactivity to Agonists. Robert M. Rapoport and John A. Bevan	375
Mechanism of Electrical Stimulation-Induced Subsensitivity of Vascular Smooth Muscle. Robert M. Rapoport and John A. Bevan	382
Neuroleptic Drugs Activate Tyrosine Hydroxylase of Retinal Amacrine Cells. Joseph Cohen, P. Michael Iuvone and Norton H. Neff	390
A Mechanism of Action of Gold Sodium Thiomalate in Diseases Characterized by a Proliferative Synovitis: Reversible Changes in Collagen Production in Cultured Human Synovial Cells. Ronald L. Goldberg, David P. Parrott, Stephen R. Kaplan and George C. Fuller	395
Inhibition of Tolerance to the Pharmacological Effects of Human β-Endorphin by Prolyl-Leucyl-Glycinamide and Cyclo(Leucylglycine) in the Rat. Hemendra N. Bhargava	404
Pharmacodynamics of Subcutaneously Administered Diacetylmorphine, 6-Acetylmorphine and Morphine in Mice. Jason G. Umans and Charles E. Inturrisi	409
Effect of Blood Sampling Schedules on Protein Drug Binding in the Rat. Michael Hulse, Stuart Feldman and James V. Bruckner	416
Evidence for 5-HT₂ Receptors Mediating Contraction in Vascular Smooth Muscle. Marlene L. Cohen, Ray W. Fuller and Kathryn S. Wiley	421
Evidence for Muscarinic Receptors on Rat Colonic Epithelial Cells: Binding of [³H]Quinuclidinyl Benzilate. Thomas J. Rimele, Mary Sue O'Dorisio and Timothy S. Gaginella	426

Contents Continued on iv

Alpha and Beta Adrenoceptor Blocking Properties of Labetalol and Its R,R-Isomer, SCH 19927. Edmund J. Sybertz, Crawford S. Sabin, Kathryn K. Pula, Gary Vander Vliet, Joseph Glennon, Elijah H. Gold and Thomas Baum	435
Antihypertensive and Hemodynamic Actions of SCH 19927, the R,R-Isomer of Labetalol. Thomas Baum, Robert W. Watkins, Edmund J. Sybertz, Subbarao Vemulapalli, Kathryn K. Pula, Emma Eynon, Steven Nelson, Gary Vander Vliet, Joseph Glennon and Rosa M. Moran	444
Transport of Benzylpenicillin in Gastrointestinal Epithelia of the Rat <i>in Vitro</i>. Helen E. Stewart and Michael J. Jackson	453
The Mechanism of Inhibitory Action of Diltiazem on Vascular Smooth Muscle Contractility. Cornelis van Breeman, Ok Hwang and Kausik D. Meisheri	459
Protective Effects of Aspirin in Endotoxin Shock. Perry V. Halushka, W. Curtis Wise and James A. Cook	464
Renal Function during Consciousness and Anesthesia in Sheep: Effects of Renal Vasodilation by Papaverine and Acetylcholine. Edward H. Blaine and Mary C. Dunlay	470
Failure of Antiarrhythmic Drugs to Affect Epicardial Delay during Acute Experimental Coronary Artery Occlusion and Reperfusion: Correlation with Lack of Antiarrhythmic Efficacy. Masahito Naito, Eric L. Michelson, James J. Kmetzo, Elieser Kaplinsky and Leonard S. Dreifus	475
Interaction of Lithium and Disulfiram in Hexobarbital Hypnosis: Possible Role of the 5-HT System. Akemi Minegishi, Ryuji Fukumori, Tetsuo Satoh, Haruo Kitagawa and Saizo Yanaura	481
Effect of Nonsteroidal Anti-Inflammatory Drugs on the Hypoxic Rat Heart. M. Karmazyn, G. N. Pierce and S. Williams	488
Direct Effects of Nitroglycerin on the Resistance, Exchange and Capacitance Functions of the Canine Intestinal Vasculature. Hsing I. Chen, Fuh C. Yeh and Weber Ho	497
Antagonism of the Cardiovascular and Respiratory Depressant Effects of Morphine in the Conscious Rabbit by Physostigmine. Marta Weinstock, Eli Erez and Doron Roll	504
Self-Induction by Erythromycin of Its Own Transformation into a Metabolite Forming an Inactive Complex with Reduced Cytochrome P-450. Gaby Danan, Veronique Descatoire and Dominique Pessayre	509
Blood Pressure Lowering Effects of N,N-di-n-Propyl-Dopamine in Rats: Evidence for Stimulation of Peripheral Dopamine Receptors Leading to Inhibition of Sympathetic Vascular Tone. Icilio Cavero, Françoise Lefèvre-Borg and Roberto Gomeni	515
The Effect of Lesions in the Dorsal, Median and Magnus Raphe Nuclei on the Development of Tolerance to Ethanol. A. D. Lê, J. M. Khanna, H. Kalant and A. E. LeBlanc	525
Ergometrine Contracts Isolated Canine Coronary Arteries by a Serotonergic Mechanism: No Role For Alpha Adrenoceptors. R. M. Brazenor and J. A. Angus	530
Effects of Phenylbutazone on Extravascular Diffusion, Protein Binding and Urinary Excretion of Cefazolin in Rabbits. Claude Carbon, Alain Contrepois, Yves Nivoche, Michel Grandjean, Sylvie DeCourt and Nguyen Phong Chau	537
Action Potential, Membrane Currents and Force of Contraction in Cat Ventricular Heart Muscle Treated with Papaverine. Hermann Nawrath	544
Naltrexone Effects on Morphine and Food Self-Administration in Morphine-Dependent Rhesus Monkeys. Nancy K. Mello, Jack H. Mendelson and Mark P. Bree	550
The Role of Benzoylmethylecgonine in Cocaine-Induced Hepatotoxicity. Richard W. Freeman and Raymond D. Harbison	558
Haloperidol-Induced Reduction of Nigral Substance P-Like Immunoreactivity: A Probe for the Interactions between Dopamine and Substance P Neuronal Systems. Glen R. Hanson, Larry Alphas, William Wolf, Robert Levine and Walter Lovenberg	568