

CONTENTS

<i>In Vivo</i> Studies on Spinal Opiate Receptor Systems Mediating Antinociception. I. <i>Mu</i> and <i>Delta</i> Receptor Profiles in the Primate. T. L. Yaksh	303
Behavioral Effects of Buprenorphine and Diprenorphine under a Multiple Schedule of Food Presentation in Squirrel Monkeys. Linda A. Dykstra	317
Adrenergic Nerve Stimulation-Induced Release of Propranolol from the Perfused Hindlimb and Spleen of the Dog and Associated Changes in Postjunctional Response. Michael P. Russell, Jerry G. Webb, Thomas Walle, Herman B. Daniell, Philip J. Privitera and Thomas E. Gaffney	324
Calcium and Calmodulin Antagonists Binding to Calmodulin and Relaxation of Coronary Segments. J. David Johnson and Douglas A. Fugman	330
Ischemia-Induced Enhancement of Digitalis Sensitivity in Isolated Guinea-Pig Heart. Dong-Hee Kim, Tai Akera and Richard H. Kennedy	335
Relationships between Choline Uptake, Acetylcholine Synthesis and Acetylcholine Release in Isolated Rat Atria. Glenn T. Wetzell and Joan Heller Brown	343
Pentobarbital Causes Cardiorespiratory Depression by Interacting with a GABAergic System at the Ventral Surface of the Medulla. Kathryn A. Yamada, Joseph M. Moerschbaecher, Paul Hamosh and Richard A. Gillis	349
Centrally Mediated Inhibition of Small Intestinal Transit and Motility by Morphine in the Rat. James J. Galligan and Thomas F. Burks	356
Effects of Chronic Administration of Mestranol on <i>Alpha</i> and <i>Beta</i> Adrenergic Responsiveness in Female Rats. K. T. Shiverick, K. Hutchins, D. C. Kikta, N. Squires and M. J. Fregly	362
Inhibition of Na⁺ Influx and DNA Synthesis in Human Fibroblasts and Neuroblastoma-Glioma Hybrid Cells by Amiloride Analogs. Martha E. O'Donnell, Edward Cragoe, Jr. and Mitchel L. Villereal	368
Naltrexone Effects on Plasma Vasopressin Concentration Elevated and Lowered by Various Stimuli. Lillian M. Rosella-Dampman, Lanny C. Keil, Oliver Chee and Joan Y. Summy-Long	373
Pharmacokinetics of Methylphenidate in Man, Rat and Monkey. W. Wargin, K. Patrick, C. Kilts, C. T. Gualtieri, K. Ellington, R. A. Mueller, G. Kraemer and G. R. Breese	382
Ethanol-Induced Disordering of Membranes from Different Age Groups of C57BL/6N Mice. H. James Armbrrecht, W. Gibson Wood, Ronald W. Wise, Judy B. Walsh, Britt N. Thomas and R. Strong	387
[³H]Nicotine Binding in Rat Brain: Alteration after Chronic Acetylcholinesterase Inhibition. Lucio G. Costa and Sheldon D. Murphy	392
Pharmacological Characterization of Substance P-Induced Nociception in Mice: Modulation by Opioid and Noradrenergic Agonists at the Spinal Level. Janice L. K. Hylden and George L. Wilcox	398
Interaction between the Effects of Intra-gastric Meals and Drugs on Feeding in Rhesus Monkeys. Richard W. Foltin and Charles R. Schuster	405
Effects of Psychomotor Stimulants, Alone and in Pairs, on Milk Drinking in the Rat after Intraperitoneal and Intra-gastric Administration. Richard W. Foltin, William L. Woolverton and Charles R. Schuster	411
Synergistic Effect of Modest Volume Expansion on the Diuretic and Natriuretic Action of Guanabenz. Jack W. Strandhoy, Mariana Morris, Brian D. Steg and Vardaman M. Buckalew, Jr.	419
Effect of Dopamine Agonists on γ-Aminobutyric Acid (GABA) Turnover in the Superior Colliculus: Evidence that Nigrotectal GABA Projections Are Under the Influence of Dopaminergic Transmission. Maria Rosaria Melis and Karen Gale	425
Differential Sensitivity of Hypothalamic Norepinephrine and Striatal Dopamine to Catecholamine-Depleting Agents. Glenn S. Takimoto, James D. Stittsworth, Jr., Bruce R. Bianchi and Janet K. Stephens	432
Behavioral Effects of the Optical Isomers of Methadone in the Rat during Acute and Chronic Administration. L. A. Raitano and D. E. McMillan	440
Effects of Chronic Phencyclidine Administration on the Schedule-Controlled Behavior of Rats. M. J. Brocco, S. K. Rastogi and D. E. McMillan	449

Production of Prostaglandin E₂ and F_{2α} in the Freshwater Mussel <i>Ligumia subrostrata</i>: Relation to Sodium Transport. David G. Saintsing, Daniel H. Hwang and Thomas H. Dietz	455
SCH 23390, a Potential Benzazepine Antipsychotic with Unique Interactions on Dopaminergic Systems. Louis C. Iorio, Allen Barnett, Frederick H. Leitz, Vincent P. Houser and Chryzanta A. Korduba	462
Evaluation of the Adrenergic Effects of a Novel Optically Active Catecholamidine <i>in Vitro</i> and <i>in Vivo</i>: Differential Application of the Easson-Stedman Hypothesis to <i>Alpha</i> and <i>Beta</i> Adrenoceptors. Robert R. Ruffolo, Jr., Jon W. Banning, Popat N. Patil, Akihiko Hamada and Duane D. Miller	469
Spinal Serotonin (5-HT) Receptor Subtypes and Nociception. Frank P. Zemlan, Lee-Ming Kow and Donald W. Pfaff	477
Prostaglandin Biosynthesis Does Not Participate in Hypercapnia-Induced Cerebral Vasodilatation in the Dog. Edwin K. Jackson, John F. Gerkens, Jeffrey B. Zimmerman, Howard D. Uderman, John A. Oates, Robert J. Workman and Robert A. Branch	486
Erythropoietic Effects of Prostacyclin (PGI₂) and Its Metabolite 6-Keto-Prostaglandin (PG)E₁. Peter Kim Nelson, Jesse Brookins and James W. Fisher	493
Inhibitory Effects of Anthracenedione Antineoplastic Agents on Hepatic and Cardiac Lipid Peroxidation. Evan D. Kharasch and Raymond F. Novak	500
Effects of Met-Enkephalin on the Substance P-Ergic and Cholinergic Responses in the Rabbit Iris Sphincter Muscle. Naoko Ueda, Ikunobu Muramatsu, Haruki Hayashi and Motohatsu Fujiwara	507
Pre- and Postjunctional Actions of Hydralazine in Vascular and Nonvascular Smooth Muscle <i>in Vitro</i>. Neil L. Brown, Claude Chevillard and Manuel Worcel	512
Correlation between Cholinesterase Inhibition and Reduction in Muscarinic Receptors and Choline Uptake by Repeated Diisopropylfluorophosphate Administration: Antagonism by Physostigmine and Atropine. Shizuo Yamada, Mitsutaka Isogai, Hiromi Okudaira and Eiichi Hayashi	519
Chlordiazepoxide Reduces <i>in Vivo</i> Serotonin Release in the Basal Ganglia of Encephale Isolé but Not Anesthetized Cats: Evidence for a Dorsal Raphe Site of Action. Philippe Soubrie, Catherine Blas, André Ferron and Jacques Glowinski	526
Glucuronidation in Isolated Perfused Rat Intestinal Segments after Mucosal and Serosal Administration of 1-Naphthol. Andries S.J. Koster and Jan Noordhoek	533
Effect of Liposome Size and Drug Release Properties on Pharmacokinetics of Encapsulated Drug in Rats. T. M. Allen and J. M. Everest	539
Multiple Opiate Receptor Affinities of <i>Kappa</i> and Agonist/Antagonist Analgesics: <i>In Vivo</i> Assessment. Paul L. Wood, D. Sanschagrin, J. W. Richard and M. Thakur	545
Pharmacology and Regional Variations of Quinolinic Acid-Evoked Excitations in the Rat Central Nervous System. M. N. Perkins and T. W. Stone	551
Changes in Sensitivity of Release Modulating Dopamine Autoreceptors after Chronic Treatment with Haloperidol. J. Z. Nowak, S. Arbilla, A. M. Galzin and S. Z. Langer	558
Quantitative Aspects of <i>Alpha</i> Adrenergic Effects Induced by Clonidine-Like Imidazolidines. III. Comparison of Central and Peripheral <i>Alpha</i>-1 and <i>Alpha</i>-2 Adrenoceptors. A. de Jonge, P. B. M. W. M. Timmermans and P. A. van Zwieten	565
Demonstration of an <i>Alpha</i> Adrenoceptor-Mediated Inotropic Effect of Norepinephrine in Rabbit Papillary Muscle. Halfdan Aass, Tor Skomedal and Jan-Bjorn Osnes	572
Accumulation and Release of [³H]-5-Hydroxytryptamine in Saphenous Veins and Cerebral Arteries of the Dog. Tony J. Verbeuren, François H. Jordaens and Arnold G. Herman	579
Mammalian Tissue Acetylsalicylic Acid Esterase(s): Identification, Distribution and Discrimination from Other Esterases. Basheer Ali and Swaraj Kaur	589
Effects of 1-(4-Nitrophenyl)-2-Isopropylaminoethanol (INPEA) and Propranolol and Their <i>Dextro</i>-Isomers on Hemodynamic and Metabolic Responses to Isoproterenol in Dogs. Tai-Ichi Nishimura, Shin-Ichi Kita and Yasushi Abiko	595
Suppression of Lymphatic Vessel Contractility with Inhibitors of Arachidonic Acid Metabolism. Miles G. Johnston and Cathy Feuer	603
Similarity between Tyramine-Induced Neurotoxicity and the Coma of Reye's Syndrome. Bahjat A. Faraj, Daniel B. Caplan, Eugene J. Malveaux, Vernon M. Camp and Farouk M. Ali	608
Biphasic Effects of Baclofen on Phrenic Motoneurons: Possible Involvement of Two Types of <i>gamma</i>-Aminobutyric Acid (GABA) Receptors. Peter M. Lalley	616
Anti-Inflammatory and Antiarthritic Evaluation of Acetaminophen and Its Potentiation of Tolmetin. S. Wong and J. F. Gardocki	625
Erratum	632