CONTENTS

Altered Effects of Desipramine on Operant Performance after 6-Hydroxydopamine-Induced Depletion of Brain Dopamine or Norepinephrine. James M. O'Donnell and Lewis S. Seiden .................................................. 629

Effects of Methadone on Human Cigarette Smoking and Subjective Ratings. L. D. Chait and Roland R. Griffiths ....... 636

Cerebral Delta Opioid Receptors Mediate Analgesia But Not the Intestinal Motility Effects of Intracerebroventricularly Administered Opioids. James J. Galligan, Henry J. Mosberg, Robin Hurst, Victor J. Hruby and Thomas F. Burks .................................................. 641


Preferential Effects of 1,3-bis(2-Chloroethyl)-1-Nitrosourea (BCNU) on Pulmonary Glutathione Reductase and Glutathione/Glutathione Disulfide Ratios: Possible Implications for Lung Toxicity. Adaline C. Smith and Michael R. Boyd .................................................. 658

Increased Renal Tubular Sodium Pump and Na⁺,K⁺-Adenosine Triphosphatase in Streptozotocin-Diabetic Rats. David D. Ku and Elias Meezan .................................................. 664

Effects of Phencyclidine, Amphetamine and Related Compounds on Dopamine Release from and Uptake into Striatal Synaptosomes. John F. Bowyer, Karen P. Spuhler and Norman Weiner ........ 671


Evaluation of Calcium Entry Blockers in Several Models of Immediate Hypersensitivity. David M. Ritchie, James N. Sierchio, Chris M. Bishop, Christine C. Hedli, Susan L. Levinson and Robert J. Capetola .................................................. 690

Nickel Inhibition of Calcium Release from Subsarcolemmal Calcium Stores of Molluscan Smooth Muscle. Zhong Wang, C. P. Bianchi and S. R. Narayan .................................................. 696


Mouse Locomotor Activity: An in Vivo Test for Dopamine Autoreceptor Activation. Gregory E. Martin and Robert J. Bendesky .................................................. 706


Tissue Distribution of Prednisolone in the Rabbit. Nawal Khalafallah and William J. Jusko .................................................. 719

Membrane Properties and Aging: In Vivo and in Vitro Effects of Ethanol on Synaptosomal γ-Aminobutyric Acid (GABA) Release. R. Strong and W. Gibson Wood .................................................. 726

Ethanol-Induced Locomotor Stimulation in Rats After Thyrotropin-Releasing Hormone. George R. Breese, Sallyana Coyle, Andrew C. Towle, Robert A. Mueller, Thomas J. McCown and Gerald D. Frye .................................................. 731


Pharmacological Differences between the High-Affinity Muscarinic Agonist Binding States of the Rat Heart and Cerebral Cortex Labeled With (+)-[3H]Cimethylxoxolane. Thomas W. Vickroy, William R. Roecke and Henry I. Yamamura .................................................. 747

Effects of Dopamine (DA) and SKF 82526, a Selective DA1-Receptor Agonist, on Vascular Resistances in the Canine Forelimb. George J. Gregs, Richard J. Barrett, Stan W. Adamski and Mustafa F. Lokhandwala .................................................. 756


Morphine-Like Discriminative Stimulus Effects of Buprenorphine and Demethoxybuprenorphine in Rats: Quantitative Antagonism by Naloxone. Harlan E. Shannon, Edward J. Cone and Charles W. Gorodetzky .................................................. 768

L-646,462, a Cyproheptadine-Related Antagonist of Dopamine and Serotonin with Selectivity for Peripheral Systems. Michael Williams, Gregory E. Martin, David C. Remy, Martin Hichens, Allen W. Mangel, David A. Taylor, George G. Yarbrough, Robert J. Bendesky, Stella W. King, Janet L. Robinson, James A. Totaro and Bradley V. Clineschmidt ........... 775

Contents Continued on v
Comparison of Iprindole, Imipramine and Mianserin Action on Brain Serotonergic and Beta Adrenergic Receptors. O. Gandolfi, M. L. Barbachia and E. Costa ................................................................. 782
Electrocardiographic Analysis of the Effects of Isosorbide-5-Mononitrate on Regional Myocardial Ischemia in Conscious Dogs. K. Strein, G. Sponer, W. Bartsch, B. Müller-Beckmann and K. Dietmann ................................................. 787
Effects of 2-Nicotinamidoethyl Nitrate (Nicorandil; SG-75) and Its Derivatives on Smooth Muscle Cells of the Canine Mesenteric Artery. T. Inoue, Y. Kanamura, K. Fujisawa, T. Itoh and H. Kuriyama ........................................... 793
Absorption of Diazepam and Its Transfer Through the Blood-Brain Barrier after Intraperitoneal Administration in the Rat. Testuji Hironaka, Katuhiro Fuchino and Tomoko Fujii .................................................. 809
Vasoconstrictor Response Induced by 5-Hydroxytryptamine Released from Vascular Adrenergic Nerves by Periarterial Nerve Stimulation. Hiromu Kawasaki and Koichiro Takasaki .................................................. 816
Heterogeneity of Smooth Muscle Alpha Adrenoceptors in Rat Tail Artery in Vitro. I. C. Medgett and S. Z. Langer .......................... 823
Effects of Chemical Sympathectomy on Insulin Receptors and Insulin Action in Isolated Rat Adipocytes. Hans G. Joost and Sabine H. Quentin .................................................................................. 839
Mechanism for Isaxonine Hepatitis. I. Metabolic Activation by Mouse and Human Cytochrome P-450. Philippe Lettérón, Helene Fouin-Fortunet, Marina Tinel, Gaby Danan, Jacques Belghiti and Dominique Pessayre .................................................. 845
Mechanism for Isaxonine Hepatitis. II. Protective Role of Glutathione and Toxicological Studies in Mice. Helene Fouin-Fortunet, Philippe Lettérón, Marina Tinel, Claude Degott, Jean-Francois Flejou and Dominique Pessayre .................................................. 851
Microiontophoretic Studies of the Dopaminergic Inhibition from the Ventral Tegmental Area to the Nucleus Accumbens Neurons. Akinori Akaie, Masashi Sasa and Shuji Takatori .................................................................................. 859
Differences in d-[3H]Lysergic Acid Diethylamide Binding in Mouse Cortex and Hippocampus in Vivo and in Vitro Revealed by Radioautography and Rapid Filtration Studies. Barbara Jones Ebersole, Harel Weinstein and Saul Maayani .......................................................... 865
Myosin Isoenzyme Expression in Rat Ventricle: Effects of Thyroid Hormone Analogs, Catecholamines, Glucocorticoids and High Carbohydrate Diet. Donald Sheer and Eugene Morkin .................................................................................. 872
Relationship between Developmental Changes in Angiotensin II-Induced Contractions and Stimulation of Phosphatidylinositol Labeling of Rat Aorta. Darryle D. Schoepp and Charles O. Rutledge .................................................. 880
Index, Volume 229, April–June, 1984 .......................................................... 897