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 I. 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, Sallyeana 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]Cismethyldioxolane. Thomas W. Vickroy, William R. Roeke and Henry I. Yamamura 747

Effects of Dopamine (DA) and SKF 82528, a Selective DA₁-Receptor Agonist, on Vascular Resistances in the Canine Forelimb. George J. Greggs, Richard J. Barrett, Stan W. Adamski and Mustafa F. Lokhandwala 756

Isolated Parietal Cells: Adrenergic Response and Pharmacology. Gary C. Rosenfeld 763

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 Hibbens, 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
Contents Continued from iii

Comparison of Iprindole, Imipramine and Mianserin Action on Brain Serotonergic and Beta Adrenergic Receptors. O. Gandolfi, M. L. Barbaccia 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 (Niconardil; 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 Intraarterial Administration in the Rat. Testuji Hironaka, Katsuhiro 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 Lettèron, 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 Lettèron, 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 Akaide, Masashi Sasa and Shuji Takaori ................................................................. 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 Maayaní ................................................................. 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. Schoep and Charles O. Rutledge ................................................................. 880


Index, Volume 229, April–June, 1984 ............................................................................................................................................................................. 897