

CONTENTS

The Inhibitory Effect of Propranolol Pretreatment on Its Own Metabolism in the Rat. D. W. Schneck and J. F. Pritchard.	575
Cholinergic and <i>Alpha</i> Adrenergic Augmentation of Histamine-Induced Contraction of Canine Airway Smooth Muscle. Alan R. Leff and Nilda M. Munoz	582
Prostacyclin and Prostaglandin E₂ Effects on Adrenergic Transmission in the Kidney of Anesthetized Dogs. H. Sušić and K. U. Malik	588
Alteration of Aminophylline-Induced Respiratory Stimulation by Perturbation of Biogenic Amine Systems. R. A. Mueller, D. B. Lundberg and G. R. Breese	593
Dextran-Bound Inhibitors of Carbonic Anhydrase. James P. Tinker, Richard Coulson and I. M. Weiner	600
Adrenergic <i>Beta</i> Receptors Mediating Submandibular Salivary Gland Hypertrophy in the Rat. George M. Brenner and R. Gary Wulf	608
Effects of Intraventricular Morphine and Enkephalins on Locomotor Activity in Nondependent, Morphine-Dependent and Postdependent Rats. Linda S. Brady and Stephen G. Holtzman	613
Metabolism of 6-Thiopurines. I. Irreversible Binding of a Metabolite of 6-Thiopurine to Mammalian Hepatic Protein <i>in Vitro</i>. Richard M. Hyslop and Ian Jardine	621
Metabolism of 6-Thiopurines. II. Covalent Binding of a 6-Thiopurine Metabolite to Mammalian Tissue Protein <i>in Vivo</i>. Richard M. Hyslop and Ian Jardine	629
Substituted Piperazines as Central Serotonin Agonists: Comparative Specificity of the Postsynaptic Actions of Quipazine and <i>m</i>-Trifluoromethylphenylpiperazine. Ray W. Fuller, Harold D. Snoddy, Norman R. Mason, Susan K. Hemrick-Luecke and James A. Clemens	636
Cyclic AMP Agonist Inhibition Increases at Low Levels of Histamine Release from Human Basophils. Ronald S. Tung and Lawrence M. Lichtenstein	642
Barbiturate Physical Dependence in Mice: Effects on Body Temperature Regulation. J. K. Belknap and M. A. Mitchell	647
Protective Effects of Diltiazem during Myocardial Ischemia in Isolated Cat Hearts. Larry R. Bush, Yuk-ping Li, Marshal Schlafer, Stanley R. Jolly and Benedict R. Lucchesi	653
Studies on the Hypotensive Response to Atropine in Hypertensive Rats. Shlomo Abraham, Elinor H. Cantor and Sydney Spector	662
A Relationship between Alcohol Intoxication and the Disordering of Brain Membranes by a Series of Short-Chain Alcohols. Robbe C. Lyon, Janet A. McComb, Jolanda Schreurs and Dora B. Goldstein	669
Histamine H-2 Receptor Stimulation and Inhibition of Pepsin Secretion in the Dog. B. I. Hirschowitz, J. Rentz and E. Molina	676
Additive Nephrotoxicity of Cephalosporins and Aminoglycosides in the Rabbit. Jean-Pierre Benirdjian, Donald J. Prime, Marc C. Browning, Chieh-Yin Hsu and Bruce M. Tune	681
Renal Tubular Transport of a Polar Cardiac Glycoside, ASI-222, in Rats; Clearance and Micropuncture Studies. Michael L. Kauker, Clinton B. Nash and R. William Caldwell	686
Effects of <i>d</i>-Amphetamine on Responding of Squirrel Monkeys Maintained Under Second-Order Schedules of Food Presentation, Electric Shock Presentation or Stimulus-Shock Termination. J. E. Barrett, J. L. Katz and J. R. Glowa.	692
Comparison of Ethanol and Barbiturate Physical Dependence. Michiko Okamoto, Donald J. Hinman and Laura M. Aaronson.	701
Cholinergic Activation Produces Psychosomatic Digitalis Toxicity. Norman A. Cagin and Benjamin H. Natelson	709
Effects of Haloperidol and Pimozide on Classical Conditioning of the Rabbit Nictitating Membrane Response. J. A. Harvey and I. Gormezano	712

Contents Continued on iv

Maintenance of Behavior by Ketamine and Related Compounds in Rhesus Monkeys with Different Self-Administration Histories. Alice M. Young and James H. Woods	720
Drug Effects on Multiple and Alternating Mixed-Schedule Performance. J. David Leander	728
Rat Thiopurine Methyltransferase: Regulation by Testosterone. L. C. Woodson, T. P. Maus, C. Reiter and R. M. Weinschilbom	734
Mechanism of Vascular Smooth Muscle Relaxation by Organic Nitrates, Nitrites, Nitroprusside and Nitric Oxide: Evidence for the Involvement of S-Nitrosothiols as Active Intermediates. Louis J. Ignarro, Howard Lipton, James C. Edwards, William H. Baricos, Albert L. Hyman, Philip J. Kadowitz and Carl A. Gruetter	739
Studies of the Effect of Antidepressants on Kinetics and Metabolism of Tyramine. Bahjat A. Faraj, Richard A. Carrano, Farouk M. Ali, Eugene J. Malveaux and Wayne M. Stacciarini	750
The Relation between the Functions of 9-β-D-Arabinofuranosyladenine as Inactivator and Substrate of S-Adenosylhomocysteine Hydrolase. S. Helland and P. M. Ueland	758
Comparative Effects of Acetylsalicylic Acid (ASA) and Sulfipyrazone on Isoproterenol-Induced Heart Damage. M. Karmazyn, M. P. Moffat, R. E. Beamish and N. S. Dhalla	764
Peripheral Vascular Effects of Atropine and Methylatropine in the Rat Autoperfused Hindlimbs Preparation. B. Alex Merrick and Terry L. Holcslaw	771
Effect of Chronic Administration of Clonidine, Propranolol and α-Methyldopa on Extensibility and Biochemical Properties of the Veins in Renal and Spontaneous Hypertension. Stan Greenberg	779
Reductions in Retinal γ-Aminobutyric Acid (GABA) Content and in [3H]Flunitrazepam Binding after Postnatal Monosodium Glutamate Injections in Rats. John W. Regan, William R. Roeske, William H. Ruth, Pushpa Deshmukh and Henry I. Yamamura	791
Benzodiazepine Receptors Are Coupled to a Subpopulation of γ-Aminobutyric Acid (GABA) Receptors: Evidence from a Quantitative Autoradiographic Study. James R. Unnerstall, Michael J. Kuhar, Debra L. Niehoff and Jose M. Palacios	797
Prevention of Acetaminophen-Induced Hepatotoxicity by Acute Ethanol Administration in the Rat: Comparison with Carbon Tetrachloride-Induced Hepatotoxicity. Chifumi Sato, Masayuki Nakano and Charles S. Lieber	805
Mechanism of the Preventive Effect of Ethanol on Acetaminophen-Induced Hepatotoxicity. Chifumi Sato and Charles S. Lieber	811
Index, Volume 218, July-September	817

AUTHOR INDEX

Aaronson, L. M., 701	Goldstein, D. B., 669	Lichtenstein, L. M., 642	Regan, J. W., 791
Abraham, S., 662	Gormezano, I., 712	Lieber, C. S., 805, 811	Reiter, C., 734
Ali, F. M., 750	Greenberg, S., 779	Lippton, H., 739	Rentz, J., 676
Baricos, W. H., 739	Gruetter, C. A., 739	Lucchesi, B. R., 653	Roeske, W. R., 791
Barrett, J. E., 692	Harvey, J. A., 712	Lundberg, D. B., 593	Ruth, W. H., 791
Beamish, R. E., 764	Helland, S., 758	Lyon, R. C., 669	Sato, C., 805, 811
Belknap, J. K., 647	Hemrick-Luecke, S. K., 636	Malik, K. U., 588	Schneck, D. W., 575
Bendirdjian, J.-P., 681	Hinman, D. J., 701	Malveaux, E., 750	Schreurs, J., 669
Brady, L. S., 613	Hirschowitz, B. I., 676	Mason, N. R., 636	Shlafer, M., 653
Breese, G. R., 593	Holcslaw, T. L., 771	Matsukubo, M. P., 764	Snoddy, H. D., 636
Brenner, G. M., 608	Holtzman, S. G., 613	Maus, T. P., 734	Spector, S., 662
Browning, M. C., 681	Hsu, C.-Y., 681	McComb, J. A., 669	Stacciarini, W., 750
Bush, L. R., 653	Hyman, A. L., 739	Merrick, B. A., 771	Sušić, H., 588
Cagin, N. A., 709	Hyslop, R. M., 621, 629	Mitchell, M. A., 647	Tinker, J. P., 600
Caldwell, R. W., 686	Ignarro, L. J., 739	Molina, E., 676	Tune, B. M., 681
Cantor, E. H., 662	Jardine, I., 621, 629	Mueller, R. A., 593	Tung, R. S., 642
Carrano, R. A., 750	Jolly, S. R., 653	Munoz, N. M., 582	Ueland, P. M., 758
Clemens, J. A., 636	Kadowitz, P. J., 739	Nakano, M., 805	Unnerstall, J. R., 797
Coulson, R., 600	Karmazyn, M., 764	Nash, C. B., 686	Weiner, I. M., 600
Deshmukh, P., 791	Katz, J. L., 692	Natelson, B. H., 709	Weinschilbom, R. M., 734
Dhalla, N. S., 764	Kauker, M. L., 686	Niehoff, D. L., 797	Woods, J. H., 720
Edwards, J. C., 739	Kuhar, M. J., 797	Okamoto, M., 701	Woodson, L. C., 734
Faraj, B. A., 750	Leander, J. D., 728	Palacios, J. M., 797	Wulf, R. G., 608
Fuller, R. W., 636	Leff, A. R., 582	Prime, D. J., 681	Yamamura, H. I., 791
Glowa, J. R., 692	Li, Y.-P., 653	Pritchard, J. F., 575	Young, A. M., 720