CONTENTS OF VOLUME 165

NO. 1, JANUARY 1969

Studies on the Reduction of Aromatic Nitro Groups in Human and Rodent Placental Homogenates. MONT R. JUCHAU ................................. 1

Metabolism of Some Phenylethylamines and Their 3-Hydroxylated Analogs in Brain. GEORGE R. BRESE, THOMAS N. CHASE AND IRWIN J. KOPIN ................................. 9


Some Features of Barbiturate Interaction and Inhibition of NADH-Cytochrome C Oxidoreductase in Respiring Systems. HERBERT E. SPIEGEL AND W. W. WAINIO. ........ 23

Methylene Blue Uptake and the Reversal of Chemically Induced Methemoglobinemias in Human Erythrocytes. W. ROBERT LAYNE AND ROGER P. SMITH ................................. 30

The Isolation of Morphine Ethereal Sulfate from Urine of the Chicken and Cat. JAMES M. FUJIMOTO AND VERNON B. HAARSTAD .................. 45


Studies on the Site of Action of a New Anorectic Agent, Fenfluramine. MARIANNE H. FOXWELL, WILLIAM H. FUNDERBURK AND JOHN W. WARD .............. 60

On the Inability to Produce Supernastivity to Catecholamines in Intestinal Smooth Muscle. W. C. GOYER, M. F. SUGRUE AND P. A. SHORE ................................. 71

Regional Differences in H3-Norepinephrine and H3-Dopamine Uptake into Rat Brain Homogenates. SOLOMON H. SNYDER AND JOSEPH T. COYLE .................. 78

The Direct Effect of Norepinephrine and of Angiotensin on the Pulmonary Veins of Intact Dogs. ALBERT HYMAN ........................................ 87

The Effect of d- and l-Norepinephrine on Rat Cardiac Phosphorylase Activation. JOHN H. MCNEILL AND THEODORE M. BRODY ................................. 97

Increased Biosynthesis of Cardiac Norepinephrine after Hypophysectomy. LEWIS LANDSEBERG, JACQUES DE CHAMPLAIN AND JULIUS AXELROD ............. 102

Reserpine- and Chlorpromazine-Induced Changes in Hypothalamic-Hypophyseal-Adrenal System in Rats in the Presence and Absence of Hypothermia. AMAR NATH BHATTACHARYA AND BERNARD H. MARKS ................................. 108

Acetylcholine in Rabbit Visual System Nuclei after Enucleation and Visual Cortex Ablation. EUGENE MILLER, ALFRED HELLER AND ROBERT Y. MOORE ............. 117


Alteration of the Body Distribution of Tritiated Digoxin by Acute Hyperkalemia in the Dog. FRANK I. MARCUS, GEETA G. KADHIA AND CARL GOLDSMITH ............. 136

NO. 2, FEBRUARY 1969

Disposition of Norepinephrine and Epinephrine in Vascular Tissue, Determined by the Technique of Oil Immersion. STANLEY KALSNER AND MARK NICKERSON .... 152

Effect of Cocaine, Phenoxybenzamine and Calcium on the Inhibition of Norepinephrine Output from the Cat Spleen by Guanethidine. S. M. KIRPEKAR, A. R. WAKADE, W. DIXON AND J. C. FRAT ................................. 166

Sympathetic Responses in Cardiac Tissue in Experimental Hypertension. THOMAS BAUM ........................................ 176

The Effects of Inorganic Ions on the Storage and Uptake of H3-Norepinephrine by Rat Heart Slices. DONALD F. BOGDANSKI AND BERNARD B. BRODIE ................................. 181

Enzymatic Conversion of Norepinephrine to Epinephrine by the Brain. LARISSA A. POHORECKY, MICHAEL ZIGMOND, HARVEY KARTEN AND RICHARD J. WURTMAN ................................. 190
Activities of Enzymes Involved in the Formation and Destruction of Biogenic Amines in Various Areas of Human Brain. W. H. Vogel, V. Orfei and B. Century... 196
Cyclic Variations of Catecholamine Content in Hypothalamic Nerve Cells during the Estrous Cycle of the Rat, with a Concomitant Study of the Substantia Nigra. Walter Lichtensteiger. 204
Correlation of Brain Levels of Drugs with Behavioral Effects. R. P. Maickel, R. H. Cox, Jr., F. P. Miller, D. S. Segal and R. W. Russell. 210
The Effect of Theophylline on Amin-induced Cardiac Phosphorylase Activation and Cardiac Contractility. John H. McNell, Michael Nassar and Theodore M. Brody. 234
The Interaction of Quinidine with Alpha and Beta Adrenergic Receptors in the Rat Myocardium. James E. Berger and Corwin M. Mokler. 242
The Effect of Emetine on Metabolism and Contractility of the Isolated Rat Heart. Andries J. Brink, Jan C. N. Kotzé, Samuel P. Muller and Amanda Lochner. 251
The Active Responses of Pulmonary Veins in Intact Dogs to Prostaglandins F<sub>alpha</sub> and E<sub>1</sub>. Albert L. Hyman. 267
Bronchopulmonary Effects of Pentaerythritol Tetranitrate and Isoproterenol. Domingo M. Aviado, Taketoshi Kishimoto and Henry J. Kneidinger. 274
Relationship between Glutathione-Dependent Denitration and the Vasodilator Effectiveness of Organic Nitrates. P. Needleman, D. J. Blehm and K. S. Rothkoff. 286
Effect of Yohimbine on Tryptophan Metabolism. T. L. Sourkes, Krystyna Misala and Bertha K. Madras. 289
Action of Antiinflammatory Drugs on the Lysozyme Activity and “Turbidity” of Serum from Rats with Adjuvant Arthritis or Endocrine Deficiency. Sam J. Piliero and Carmelo Colombo. 294
The Effects of Selected Cholinergic Drugs and Strychnine on Cochlear Responses and Olivo-Cochlear Inhibition. R. D. Brown, E. A. Daigualt and J. R. Pruett. 300
The Mode of Action of Morphine on the Uptake of Carbachol and Decamethionium by Slices of Rat Cerebral Cortex. Dermot B. Taylor, Richard Creese and Tzu-Chiau Lu. 310
Index, Volume 165, January-February 1969. 321