CONTENTS

Effects of Phototherapy on the Activity of Microsomal Mixed-Function Monooxygenases and the Pharmacokinetics of [14C]Hexobarbital in Jaundiced and Heterozygous Gunn Rats. Masahisa Tabata, J. Donald Ostrow, Cecile C. Webster, Geoffrey M. Zucker and Jamie Kapitulnik 561

Separate Receptors for Prostacyclin and Prostaglandin E2 on Human Gel-Filtered Platelets. Thomas L. Eggerman, Niels H. Andersen and R. Paul Robertson 568

Activation of Ethanol Metabolism in Humans by Fructose: Importance of Experimental Design. Brenda P. Crownover, Jeffrey La Dine, Blair Bradford, Edward Glassman, Donald Forman, Heinz Schneider and Ronald G. Thurman 574


Glucose Transport in Human Platelets and Its Inhibition by Forskolin. Hyun Dju Kim, Susan Sergeant and Shivendra D. Shukla 585

Alcohol Effects on Luteinizing Hormone-Releasing Hormone-Stimulated Luteinizing Hormone and Follicle-Stimulating Hormone in Female Rhesus Monkeys. Nancy K. Mello, Jack H. Mendelson, Mark P. Bree and Alice S. T. Skupny 590

Mechanism of Tubular Uptake on Human Growth Hormone in Perfused Rat Kidneys. Sen T. Kau and Thomas Maack 596

Comparison of Muscarinic Receptor Properties in Hatched Chick Heart Atrium and Ventricle. Steve Sorota, Leonard P. Adam and Achilles J. Pappano 602

Depletion of Hepatic UDP-Glucuronic Acid by Drugs That Are Glucuronidated. Stanley R. Howell, George A. Hazelton and Curtis D. Klaassen 610

Changes in Adenosine Receptor Sensitivity in Morphine-Tolerant and Dependent Mice. Michael K. Ahlijanian and A. E. Takemori 615

Cholecystokinin-8 Stimulates Adrenocorticotropin Release from Anterior Pituitary Cells. Terry Reisine and Robert Jensen 621

Ontogeny of the Opioid-Mediated Control of Reproductive Endocrinology in the Male and Female Rat. Theodore J. Cicero, Peter F. Schmoeker, Edward R. Meyer, Brian T. Miller, Roy D. Bell, Stuart M. Cytron and Craig C. Brown 627

Ethanol-Induced Adrenomedullary Catecholamine Secretion in LS/!bg and SS/!bg Mice. J. M. Zgombick, V. G. Erwin and K. Cornell 634

Delayed Activation of Tuberoinfundibular Dopamine Neurons and Suppression of Prolactin Secretion in the Rat after Morphine Administration. Gary A. Gudelsky, Erasmo Passaro and Herbert Y. Meltzer 641

Effect of Continuous Intraventricular Estrogen or Catechol Estrogen Treatment on Catecholamine Turnover in Various Brain Regions. Diana U. Panek and Walter R. Dixon 646


Metronidazole and 5-Aminosalicylic Acid Enhance the Contractile Activity of Histaminergic Agonists on the Guinea-Pig Isolated Ileum. S. L. Winbery and L. A. Barker 662

Ketoconazole Inhibits Cyclosporine Metabolism in Vivo in Mice. Jeanne E. Anderson and Terrence F. Bischock 671

Metabolism of Spironolactone by Adrenocortical and Hepatic Microsomes: Relationship to Cytochrome P-450 Destruction. James H. Sherry, John P. O'Donnell, Lynn Flowers, Lynn B. LaCagnin and Howard D. Colby 675

Beta-1 Receptor is the Predominant Beta-Adrenoreceptor on Rat Brown Adipose Tissue. Barry E. Levin and Ann C. Sullivan 681


Contents Continued on Back Cover
Regulation of Dopamine Synthesis in the Medial Prefrontal Cortex: Studies in Brain Slices. Marina E. Wolf, Matthew P. Galloway and Robert H. Roth ................................................................. 699
Kinetics of Drug Action in Disease States. XVI. Pharmacodynamics of Theophylline-Induced Seizures in Rats. Iqbal M. Ramzan and Gerald Levy ................................................................. 708
D-1 and D-2 Dopamine Receptor Blockade: Interactive Effects in Vitro and in Vivo. Charles F. Saller and Andre I. Salama ........................................................................................................... 714
Cholecystokinin Receptors: Relationships among Phosphoinositide Breakdown, Amylase Release and Receptor Affinity in Pancreas. Chun Wel Lin, Bruce R. Bianchi, Dennis Grant, Thomas Miller, Elizabeth A. Danaher, Michael D. Tufano, Hana Kopecka and Alex M. Nadzan ........................................................................... 729
Mechanism of the Pressor Action of LY171555, a Specific Dopamine D3 Receptor Agonist, in the Conscious Rat. Shusaku Nagahama, Yiu-Fai Chen, Marshall D. Lindheimer and Suzanne Oparil .......................................................................................................................... 735
Alpha-1 Adrenoceptors Mediate Splanchnic Nerve Inhibition of Pentagastrin-Induced Gastric Acid Secretion and Mucosal Blood Flow in Rats. Kunihiko Yokotani and Yoshitsugu Osumi ............................................................................................................... 743
BAY-K-8644-Stimulated Cyclic GMP Synthesis in Mouse Pituitary Tumor Cells. Seymour Heisler ........................................................................................................................................... 753
Quantitative Analysis of the Contribution of Pulmonary and Hind Limb Circulation to the Clearance of Exogenous Catecholamines. Koji Sumikawa and Hideki Hirano ................................................................................................. 759
Antagonism by Nifedipine of Alpha-1 and Alpha-2 Adrenoceptor-Mediated Responses of Human Digital Arteries. Maxine J. Stevens and Robert F. W. Moulds ......................................................................................... 764
Lack of Direct Splanchnic Nerve Inhibitory Effects on Histamine-Induced Gastric Acid Secretion in Rats. Kunihiko Yokotani and Yoshitsugu Osumi ............................................................................. 770
Adrenoceptor Blocking Properties of the Stereoisomers of Amosulalol (YM-09538) and the Corresponding Desoxy Derivative (YM-11133). Kazuo Honda, Toichi Takenaka, Akemi Miyata-Osawa and Michio Terai ......................................................................................................................... 776
Dissociation between Acid Secretion and Mucosal Blood Flow after Treatment of Rats with Reserpine. Hisato Kitagawa, Kazuyoshi Kurahashi and Motohatsu Fujiwara ......................................................................................................................... 784
Binding of [3H]Prazosin to Porcine Aortic Membranes: Interaction of Calcium Antagonists with Vascular Alpha-1 Adrenoceptors. Junji Nishimura, Hideo Kanaide and Motoomi Nakamura .......................................................................................................................... 789
Bovine Plasma and Synovial Fluid Kinetics of Methylprednisolone and Methylprednisolone Acetate after Intraarticular Administration of Methylprednisolone Acetate. Pierre L. Toutain, Michel Alvinerie, Pascal Fayolle and Yves Ruckebusch ........................................................................................................................................... 794
Central Alpha-2 Adrenoceptor-Mediated Hypertensive Response to Clonidine in Conscious, Normotensive Rats. Hiromu Kawasaki and Koichiro Takasaki ................................................................. 810
Characterization and Autoradiographic Localization of Multiple Tachykinin Binding Sites in Gastrointestinal Tract and Bladder. Elizabeth Burcher, Stephen H. Buck, Walter Lovenberg and Thomas L. O'Donohue .......................................................................................................................... 819
Effects of Quinidine on the Transmembrane Potentials of Young and Adult Canine Cardiac Purkinje Fibers. Yoshiyuki Morikawa and Michael R. Rosen ......................................................................................................................... 832
SCH23390 Effects on Apomorphine-Induced Responses of Nigral Dopaminergic Neurons. T. Celeste Napier, Bennet S. Givens, David W. Schulz, Benjamin S. Bunney, George R. Breese and Richard B. Mailman .......................................................................................................................... 838
Index, Volume 236, January–March, 1986 .......................................................................................................................................................................................... 847