CONTENTS

Effects of Phototherapy on the Activity of Microsomal Mixed-Function Monooxygenases and the Pharmacokinetics of $[^{14}C]$ 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 E$_2$ 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/1bg and SS/1bg 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. Bischoke ......................................................... 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

Kinetics of Drug Action in Disease States. XVI. Pharmacodynamics of Theophylline-Induced Seizures in Rats. Iqbal M. Ramzan and Gerard 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 D4 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 Motoo Nakamura .......................................................... 789

Bovine Plasma and Synovial Fluid Kinetics of Methylprednisolone and Methylprednisolone Acetate after Intravenous 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