

The Journal of PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

CONTENTS

Activation of Excitatory Amino Acid Receptors May Mediate the Folate-Induced Stimulation of Locomotor Activity after Bilateral Injection Into the Rat Nucleus Accumbens. Robert L. Stephens, Jr., Thomas Lee, Robert Boldry and Norman J. Uretsky	627
Bovine Anterior Descending Coronary Artery Possesses a Homogeneous Population of <i>Beta</i>-1 Adrenergic Receptors. R. E. Purdy and G. L. Stupecky	634
<i>Alpha</i> Adrenoceptor Regulation of Coronary Artery Blood Flow in Normal and Stenotic Canine Coronary Arteries. Gregory A. Kopia, Linda J. Kopaciewicz and Robert R. Ruffolo, Jr.	641
Nifedipine Attenuates Both <i>Alpha</i>-1 and <i>Alpha</i>-2 Adrenoceptor-Mediated Pressor and Vasoconstrictor Responses in Conscious Dogs and Primates. Owen L. Woodman, Jay W. Constantine and Stephen F. Vatner	648
Down Regulation of <i>Beta</i> Adrenergic Receptors in S49 Lymphoma Cells Induced by Atypical Agonists. Elwood E. Reynolds and Perry B. Molinoff	654
Effect of Dextromethorphan on Guinea Pig Ileal Contractility <i>in Vitro</i>: Comparison with Levomethorphan, Loperamide and Codeine. James F. Kachur, Douglas W. Morgan and Timothy S. Gaginella	661
Modulation of the Carrier-Mediated Transport of Tyr-MIF-1 across the Blood-Brain Barrier by Essential Amino Acids. William A. Banks and Abba J. Kastin	668
Studies on the Mechanism of Absorption and Distribution of 2,3,7,8-Tetrachlorodibenzo-<i>p</i>-Dioxin in the Rat. M. R. Lakshmanan, Barbara S. Campbell, Stuart J. Chirtel, Nisa Ekarohita and Mildred Ezekiel	673
<i>Alpha</i>-1 Adrenergic Receptor Binding and Contraction of Rat Caudal Artery. Peter W. Abel and Kenneth P. Minneman	678
Effects of Chronic Exposure to Ethanol on the Prostaglandin E₁ Receptor-Mediated Response and Binding in a Murine Neuroblastoma Clone (N1E-115). Elliott Richelson, Scott Stenstrom, Carlos Forray, Lori Enloe and Michael Pfenning	687
Alcohol Effects on Luteinizing Hormone-Releasing Hormone Stimulated Luteinizing Hormone and Follicle-Stimulating Hormone in Ovariectomized Female Rhesus Monkeys. Nancy K. Mello, Jack H. Mendelson, Mark P. Bree and Alicja S. T. Skupny	693
Cardiac Output is an Apparent Determinant of Nitroglycerin Pharmacokinetics in Rats. H.-L. Fung, A. Blei and S. Chong	701
Discriminative Stimulus Properties of Caffeine in the Rat: Noradrenergic Mediation. Stephen G. Holtzman	706
Suppression of Free Fatty Acids and Triglycerides in Normal and Hypertriglyceridemic Rats by the Adenosine Receptor Agonist Phenylisopropyladenosine. Brian B. Hoffman, Elisabetta Dall'Aglio, Clarie Hollenbeck, Helen Chang and Gerald M. Reaven	715
Cardiac Electrophysiologic Actions of SCH 19927 (Dilevalol), the <i>R,R</i>-Isomer of Labetalol. Joseph J. Lynch, Daniel G. Montgomery and Benedict R. Lucchesi	719
Differential Effect of Plasma Protein Binding of Bupivacaine on its <i>in Vivo</i> Transfer into the Brain and Salivary Gland of Rats. Tetsuya Terasaki, William M. Pardridge and Donald D. Denson	724
Studies on the Desensitization of the Central Cardiovascular Responses of Histamine. Jennifer J. Poulakos and Sheldon B. Gertner	730
Human Vascular Vasopressin Receptors: Analysis with Selective Vasopressin Receptor Antagonists. Eliot H. Ohlstein and Barry A. Berkowitz	737
Direct Analysis of the Release of Methionine-Enkephalin from Guinea Pig Myenteric Plexus: Modulation by Endogenous Opioids and Exogenous Morphine. Jon Glass, Wai C. Chan and Alan R. Gintzler	742
Effects of Papaverine and Theophylline on Renal Adenosine Transport. Richard Coulson and Mary Ellen Trimble	748
Interaction between Human Serum Albumin and α_1-Acid Glycoprotein in the Binding of Lidocaine to Purified Protein Fractions and Sera. Elliot Krauss, Carl F. Polnaszek, Douglas A. Scheeler, H. Brian Halsall, John H. Eckfeldt and Jordan L. Holtzman	754
Effects of Naftidrofuryl on Adrenergic Nerves, Endothelium and Smooth Muscle in Isolated Canine Blood Vessels. J. F. Zander, L. L. Aarhus, Z. S. Katusic, G. M. Rubanyi and P. M. Vanhoutte	760
Influence of Mg⁺⁺ on the Effect of Diltiazem to Increase Dihydropyridine Binding to Receptors on Ca⁺⁺-Channels in Chick Cardiac and Skeletal Muscle Membranes. Arie C. Maan, Judith Ptasienski and M. Marlene Hosey	768
Pharmacologic Characterization of Acute Chlordiazepoxide Dependence in the Rat. Norman R. Boisse, Rani M. Periana, John J. Guarino, Howard S. Kruger and Gary M. Samoriski	775

Contents Continued on iv

Downloaded from jpet.aspetjournals.org at ASPET Journals on May 19, 2019

Sympathetic Purinergic Vasoconstriction and Thermosensitivity in a Canine Cutaneous Vein. N. A. Flavahan and P. M. Vanhoutte	784
Cardiac and Vascular Actions of Decapeptide Angiotensin Analogs. Kenneth M. Baker and Mahesh C. Khosla	790
Endothelial Potentiation of Relaxation Response to <i>Beta</i> Adrenoceptor Blocking Agents. Radman Mostaghim, Yvonne T. Maddox and Peter W. Ramwell	797
Decline in <i>Beta</i> Adrenergic Receptor-Mediated Vascular Relaxation with Aging in Man. Henry Y.-M. Pan, Brian B. Hoffman, Robert A. Pershe and Terrence F. Blaschke	802
Verapamil, Diltiazem and Nifedipine Block the Depolarization-Induced Potentiation of Norepinephrine Contractions in Rabbit Aorta and Porcine Coronary Arteries. Luc M. Hondeghem, Michael J. Ayad and Rose Marie Robertson	808
Effects of <i>Mu</i>-Opioid Receptor Stimulation in the Hypothalamic Paraventricular Nucleus on Basal and Stress-Induced Catecholamine Secretion and Cardiovascular Responses. Judith A. Kiritsy-Roy, Nathan M. Appel, Frances G. Bobbitt and Glen R. Van Loon	814
Identification and Inheritance of Inbred Hamster N-Acetyltransferase Isozymes in Peripheral Blood. David W. Hein, Ward G. Kirlin, Ronald J. Ferguson, Linda K. Thompson and Fredrick Ogolla	823
Lead, Zinc and Copper Decorporation during Calcium Disodium Ethylenediamine Tetraacetate Treatment of Lead-Poisoned Children. David J. Thomas and J. Julian Chisolm, Jr.	829
Coronary and Myocardial Effects of Activated Neutrophils in Perfused Rabbit Hearts. Mark N. Gillespie, Shuji Kojima, Masaru Kunitomo and Michael Jay	836
Inhibition of the Platelet Activating Factor (PAF)-Induced <i>in Vivo</i> Responses in Rats by <i>Trans</i>-2,5-(3,4,5-Trimethoxyphenyl) Tetrahydrofuran (L-652,731), a PAF Receptor Antagonist. Margaret S. Wu, Tesfaye Biftu and Thomas W. Doebber	841
Prazosin Selectively Antagonizes Norepinephrine Contractions at Low-Affinity, Non-<i>Alpha</i> Adrenoceptor Sites (Extracceptors) in Arterial Muscle. I. Laher, S. Nishimura and J. A. Bevan	846
Genetic Analysis of Nicotine-Induced Seizures and Hippocampal Nicotinic Receptors in the Mouse. Lucinda L. Miner, Michael J. Marks and Allan C. Collins	853
Endothelial Modulation of Vascular Relaxation to Nitrovasodilators in Aging and Hypertension. Yasufumi Shirasaki, Che Su, Tony J.-F. Lee, Paul Kolm, William H. Cline, Jr. and G. Allen Nickols	861
Effect of Canrenone on the Disturbances of Cation Handling Induced by Ouabain in Macrophages and Vascular Smooth Muscle Cells. Patrick Hannaert, Beatrice Thormann and Ricardo Garay	867
Regional Characterization of Agonist and Depolarization-Induced Phosphoinositide Hydrolysis in Rat Brain. Thomas A. Rooney and Stefan R. Nahorski	873
Dopamine₁ Receptor Agonist and <i>Alpha</i>-2 Adrenoceptor Antagonist Effects of Fenoldopam in Rabbits. Bela Szabo, Liselotte Hedler and Klaus Starke	881
Mechanisms Behind the Inhibitory Effect of Ethanol on the Conjugation of Morphine in Rat Hepatocytes. Egil Bodd, Gaut Gadeholt, Per I. Christensson and Jørg Mørland	887
Elimination of Chronically Consumed Caffeine in the Pregnant Monkey (<i>Macaca fascicularis</i>). Steven G. Gilbert, Ying So, Raymond D. Klassen, Sylvain Geoffroy, Bozidar Stavric and Deborah C. Rice	891
<i>α</i>-Bromoisovalerylurea as Model Substrate for Studies on Pharmacokinetics of Glutathione Conjugation in the Rat. I. (Bio-)Synthesis, Analysis and Identification of Diastereomeric Glutathione Conjugates and Mercapturates. Johan M. te Koppele, Ed J. van der Mark, Jos C. Olde Boerrigter, Johannes Brussee, Arne van der Gen, Jan van der Greef and Gerard J. Mulder	898
<i>α</i>-Bromoisovalerylurea as Model Substrate for Studies on Pharmacokinetics of Glutathione Conjugation in the Rat. II. Pharmacokinetics and Stereoselectivity of Metabolism and Excretion <i>in Vivo</i> and in the Perfused Liver. Johan M. te Koppele, Peter Dogterom, Nico P. E. Vermeulen, Dirk K. F. Meijer, Arne van der Gen and Gerard J. Mulder	905
Secretin Infusion in Acute Ischemic Left Ventricular Failure: Effects on Myocardial Performance and Metabolism in a Closed-Chest Dog Model. Pål Gunnes, Olav Reikerås and Idar Lygren	915
Prednisolone Concentration-Effect Relations in Humans and the Influence of Plasma Hydrocortisone. Berend Oosterhuis, Ineke J. M. ten Berge, Peter T. A. Schellekens, Richard P. Koopmans and Chris J. van Boxtel	919
Transport of Cimetidine by the Rat Choroid Plexus <i>in Vitro</i>. Hiroshi Suzuki, Yasufumi Sawada, Yuichi Sugiyama, Tatsuji Iga and Manabu Hanano	927
Δ^9-Tetrahydrocannabinol Differentially Affects Sensory-Evoked Potentials in the Rat Dentate Gyrus. K. A. Campbell, T. C. Foster, R. E. Hampson and S. A. Deadwyler	936
Effects of Δ^9-Tetrahydrocannabinol on Sensory-Evoked Discharges of Granule Cells in the Dentate Gyrus of Behaving Rats. K. A. Campbell, T. C. Foster, R. E. Hampson and S. A. Deadwyler	941
Increased Gentamicin Nephrotoxicity in Normal and Diseased Dogs Administered Identical Serum Drug Concentration Profiles: Increased Sensitivity in Subclinical Renal Dysfunction. Donita L. Frazier, Lynn P. Dix, Karl F. Bowman, Carol Thompson and J. Edmond Riviere	946
Regional Modulation of [³H]Forskolin Binding in the Rat Brain by Guanylyl-5'-Imidodiphosphate and Sodium Fluoride: Comparison with the Distribution of Guanine Nucleotide Binding Sites. D. R. Gehlert	952
Erratum	959
Index, Volume 239, October–December 1986	961