

The Journal of PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

VOLUME 230
AUGUST 1984
NUMBER 2

CONTENTS

Distribution of 2,4,5,2',4',5'-Hexachlorobiphenyl among Lipoproteins during Pregnancy and Lactation in the Rat. Mary Spindler-Vomachka and Mary Jo Vodcicnik	263
Urea Distribution Kinetics Analyzed by Simultaneous Injection of Urea and Inulin: Demonstration that Transcapillary Exchange is Rate Limiting. Dennis J. Bowsher, Michael J. Avram, Marilyn C. Frederiksen, Akira Asada and Arthur J. Atkinson, Jr.	269
Effects of Cerebroventricular Administration of Ouabain on Renal Hemodynamics in Anesthetized Dogs: Evidence for the Participation of Renal Dopaminergic Vasodilator Fibers. Gary J. Hom and Bhagavan S. Jandhyala	275
Pharmacologic Identification, Activation and Antagonism of Two Muscarine Receptor Subtypes in the Lower Esophageal Sphincter. Richard Gilbert, Satish Rattan and Raj K. Goyal	284
Potentialiation of Paraquat Lethality in Mice by Bacterial Lipopolysaccharide Pretreatment. Manfred A. Hollinger ..	292
Prostaglandin-Vasopressin Interactions on the Renal Handling of Calcium and Magnesium. Richard J. Roman, Meredith Skelton and Claude Lechene	295
Renal Effects of 2-Chloroadenosine in the Two-Kidney Goldblatt Rat. Paul C. Churchill, Anil K. Bidani, Monique C. Churchill and Jorge Prada	302
Effects of Anticonvulsants on Learning: Performance of Pigeons Under a Repeated Acquisition Procedure When Exposed to Phenobarbital, Clonazepam, Valproic Acid, Ethosuximide and Phenytoin. Mitchell Picker and Alan Poling	307
Characterization of α-1 Adrenergic Receptors Linked to [3H]Inositol Metabolism in Rat Cerebral Cortex. Kenneth P. Minneman and Ronald D. Johnson	317
Effects of L-Tryptophan on Blood Pressure in Normotensive and Hypertensive Rats. William A. Wolf and Donald M. Kuhn	324
Imipramine and Its Metabolites: Relationship to Cerebral Catecholamines in Rats <i>in Vivo</i>. Amiram I. Barkai, Raymond F. Suckow and Thomas B. Cooper	330
Indirect Stimulatory Action of the Calcium Channel Blocker AQA-39. Ferdinand Urthaler and Alfred A. Walker	336
Roles of μ, Δ and κ Opioid Receptors in Spinal and Supraspinal Mediation of Gastrointestinal Transit Effects and Hot-Plate Analgesia in the Mouse. Frank Porreca, Henry I. Mosberg, Robin Hurst, Victor J. Hruby and Thomas F. Burks	341
Action of Peptidase Inhibitors on Methionine⁵-Enkephalin-Arginine⁶-Phenylalanine⁷ (YGGFMRP) and Methionine⁵-Enkephalin (YGGFM) Metabolism and on Electroacupuncture Antinociception. J. Chou, J. Tang, J. Del Rio, H.-Y. T. Yang and E. Costa	349
Effects of Diazepam on Arterial Blood Gas Concentrations and pH of Adult Rats Acutely and Chronically Exposed to Methadone. Gwendolyn Y. McCormick, William J. White, Ian S. Zagon and C. Max Lang	353
Identification of 2-Bromohydroquinone as a Metabolite of Bromobenzene and <i>o</i>-Bromophenol: Implications for Bromobenzene-Induced Nephrotoxicity. Serrine S. Lau, Terrence J. Monks and James R. Gillette	360
Comparative Actions of Dihydropyridine Slow Channel Calcium Blocking Agents in Conscious Dogs: Systemic and Coronary Hemodynamics with and Without Combined β Adrenergic Blockade. David C. Wartier, Mark G. Zivoloski, Garrett J. Gross and Harold L. Brooks	367
Comparative Actions of Dihydropyridine Slow Channel Calcium Blocking Agents in Conscious Dogs: Alterations in Baroreflex Sensitivity. David C. Wartier, Mark G. Zivoloski, Garrett J. Gross and Harold L. Brooks	376
A Novel Phencyclidine Analog Interacts Selectivity with μ Opioid Receptors. Yossef Itzhak and Eric J. Simon	383
α-1 Adrenoceptor Selectivity of Phenoxybenzamine in the Rat Kidney. Donald D. Smyth, Satoshi Umemura and William A. Pettinger	387
Hypotensive and Hemostatic Properties of Rattlesnake (<i>Crotalus viridis helleri</i>) Venom and Venom Fractions in Dogs. Richard C. Schaeffer, Jr., Carolyn Briston, Shawn-Marie Chilton and Richard W. Carlson	393
Behavioral Dependence Produced by Continuous Phencyclidine Infusion in Rhesus Monkeys. Barbara L. Slifer, Robert L. Balster and William L. Woolverton	399
Anticonvulsant and Antipunishment Effects of Toluene. Ronald W. Wood, John B. Coleman, Robyn Schuler and Christopher Cox	407

Contents Continued on iv

Induction of Ca⁺⁺ Influx and Intracellular Ca⁺⁺ Release in Isolated Rat Aorta and Mesenteric Resistance Vessels by Norepinephrine Activation of <i>Alpha</i>-1 Receptors. Cynthia Cauvin and Shahid Malik	413
Ontogeny of Cardiac Ornithine Decarboxylase and Its <i>Beta</i> Adrenergic Responsiveness in the Rat. Susan P. Miska, Gary L. Kimmel, James R. Harmon and Peggy Webb	419
Modulation of Muscarinic Cholinergic Receptor Affinity for Antagonists in Rat Heart. Michael W. Martin, McHardy M. Smith and T. Kendall Harden	424
Modulation of Rat Pineal Acetyl-Co A: Arylamine N-Acetyltransferase Induction by <i>Alpha</i> Adrenergic Drugs. Larry Alphs and Walter Lovenberg	431
Analysis of the Behavioral Activity of C- and N-Terminal Fragments of Cholecystokinin Octapeptide. Jacqueline N. Crawley, Serge St-Pierre and Pierrette Gaudreau	438
Mechanical Trauma to Bladder Epithelium Liberates Prostanoids which Modulate Neurotransmission in Rabbit Detrusor Muscle. J. W. Downie and M. Karmazyn	445
Heterogeneity of <i>Beta</i> Adrenoceptors in Right Atria Isolated from Cold-Exposed Rats. Maria Lucia Callia and Sergio de Moraes	450
Enhanced Activity of the β-Endorphinergic System in the Anterior and Neurointermediate Lobe of the Rat Pituitary after Chronic Treatment with Ethanol Liquid Diet. Bernd R. Seizinger, Klaus Bovermann, Volker Höllt and Albert Herz	455
Effects of 2-Nicotinamidoethyl Nitrate (Nicorandil) on Excitation-Contraction Coupling in the Smooth Muscle Cells of Rabbit Ear Artery. M. Kajiwara, G. Droogmans and R. Casteels	462
Capsaicin and Bradykinin-Induced Substance P-ergic Responses in the Iris Sphincter Muscle of the Rabbit. Naoko Ueda, Ikunobu Muramatsu and Motohatsu Fujiwara	469
Flow Dependence of Propranolol Elimination in Perfused Rat Liver. S. Keiding and E. Steiness	474
Inhibitory Effects of Salicylate on Contractility in Skeletal Muscle. G. Suarez-Kurtz, M. Josefina Braga da Costa and Solange Coutinho	478
Adenosine Inhibition of Catecholamine-Induced Increase in Force of Contraction in Guinea-Pig Atrial and Ventricular Heart Preparations. Evidence Against a Cyclic AMP- and Cyclic GMP-Dependent Effect. Michael Böhm, Reinhard Brückner, Ingelore Hackbarth, Bernd Haubitz, Rainer Linhart, Wilfried Meyer, Bettina Schmidt, Wilhelm Schmitz and Hasso Scholz	483
Presynaptic Inhibitory Effect of Met-Enkephalin on [¹⁴C]Acetylcholine Release from the Myenteric Plexus and Its Interaction with Muscarinic Negative Feedback Inhibition. E. Sylvester Vizi, Kazumi Ono, Vera Adam-Vizi, Deryck Duncalf and Francis F. Földes	493
Evidence for the Involvement of Arachidonic Acid Metabolites in Spontaneous and Drug-Induced Contractions of Rat Urinary Bladder. Carlo Alberto Maggi, Stefano Evangelista, Guglielmo Grimaldi, Paolo Santicoli, Alessandro Giolitti and Alberto Meli	500
Contractile Activity of Human Coronary Arteries and Human Myocardium <i>in Vitro</i> and Their Sensitivity to Calcium Entry Blockade by Nifedipine. Théophile Godfraind, Michel Finet, Jaderson Socrates Lima and Robert C. Miller	514
Antiarrhythmic and Antifibrillatory Actions of the <i>Beta</i> Adrenergic Receptor Antagonist, <i>dl</i>-Sotalol. Eugene Patterson, Joseph J. Lynch and Benedict R. Lucchesi	519