

The Journal of PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

VOLUME 228
FEBRUARY 1984
NUMBER 2

CONTENTS

Comparison of Norepinephrine- and Benzodiazapine-Induced Augmentation of Purkinje Cell Responses to γ-Aminobutyric Acid (GABA). Barry D. Waterhouse, Hylan C. Moises, Hermes H. Yeh, Herbert M. Geller and Donald J. Woodward	257
Adenosine Analogs and Sleep in Rats. M. Radulovacki, R. M. Virus, M. Djuricic-Nedelson and R. D. Green	268
Comparison of α-2 Adrenergic Receptors and Their Regulation in Rodent and Porcine Species. Daniel J. Feller and David B. Bylund	275
β Adrenoreceptors in the Rabbit Bladder Detrusor Muscle. Gordon F. Anderson and Bernard H. Marks	283
Reduction in Norepinephrine Content of Sympathetic Neuroeffector Organs by α Adrenergic Antagonists and Nerve Stimulation: Evidence for Presynaptic Control of Sympathetic Transmitter Release in Intact Animal. Arun R. Wakade and Taruna D. Wakade	287
Dynorphin Inhibition of the Neurotensin Contractile Activity on the Myenteric Plexus. J. Pablo Huidobro-Toro, Yuang-Xiang Zhu, Nancy M. Lee, Horace H. Loh, and E. Leong Way	293
(Na^+,K^+)-Adenosine Triphosphatase Regulation by the Sympathetic Nervous System: Effects of Noradrenergic Stimulation and Lesions <i>in Vivo</i>. Alan C. Swann	304
Antihypertensive Effects of CI-907 (Indolapril): A Novel Nonsulfhydryl Angiotensin Converting Enzyme Inhibitor. M. J. Ryan, D. M. Boucher, D. M. Cohen, A. D. Essenburg, T. C. Major, T. E. Mertz, B. J. Olszewski, A. E. Randolph, R. M. Singer and H. R. Kaplan	312
Amrinone in Severe Congestive Heart Failure: Another Look at an Intriguing New Cardioactive Drug. James B. Hermiller, Mark E. Leithe, Raymond D. Magorien, Donald V. Unverferth and Carl V. Leier	319
Tissue Distribution and Disposition of Tin-Protoporphyrin, a Potent Competitive Inhibitor of Heme Oxygenase. Karl E. Anderson, Creuza S. Simionatto, George S. Drummond and Attallah Kappas	327
Blood Vessel Uptake and Metabolism of Organic Nitrates in the Rat. Ho-Leung Fung, Steven C. Sutton and Akira Kamiya	334
Adenosine-Mediated Relaxation and Activation of Cyclic AMP-Dependent Protein Kinase in Coronary Arterial Smooth Muscle. Paul J. Silver, Kazmerez Walus and Joseph DiSalvo	342
Central Cardiovascular Effects of Vasotocin, Oxytocin and Vasopressin in Conscious Rats. G. Feuerstein, R. L. Zerbe and A. I. Faden	348
Mechanisms Underlying the Pressor Responses to Acute and Chronic Intraventricular Administration of Carbachol in the Rat. Yvonne Y. Wu and E. T. Wei	354
An Antiabsorptive Basis for Precipitated Withdrawal Diarrhea in Morphine-Dependent Rats. Eugene B. Chang, David R. Brown, Michael Field and Richard J. Miller	364
Mechanism of the Depressor Effect of Bromocriptine in the Spontaneously Hypertensive Rat. Shusaku Nagahama, Yiu-Fai Chen and Suzanne Oparil	370
Blockade of Ganglionic Afterdischarges by Tyramine May Be Mediated By Endogenous Catecholamines. Daryl Christ and Teresa Zitaglio	376
Theophylline Disposition in Obese Rats. Linyee Shum and William J. Jusko	380
Tubular Transport and Metabolism of Cimetidine in Chicken Kidneys. Barbara Rennick, John Ziemniak, Ian Smith, Martha Taylor and Margaret Acara	387
Diffusion of Reactive Metabolites Out of Hepatocytes: Studies With Bromobenzene. Terrence J. Monks, Serrine S. Lau and James R. Gillette	393
Effect of Prostaglandin D_2 in Modulating Histamine Release from Human Basophils. Stephen P. Peters, Anne Kagey-Sobotka, Donald W. MacGlashan, Jr. and Lawrence M. Lichtenstein	400
Glucuronidation and Biliary Excretion of Acetaminophen in Rats. Jerry J. Hjelle and Curtis D. Klaassen	407
Meptazinol: A Novel μ-1 Selective Opioid Analgesic. Katharyn Spiegel and Gavril W. Pasternak	414
Renal Tubular Site of Action of Felodipine. Gerald F. DiBona and Linda L. Sawin	420

Contents Continued on *iv*

Modification of Receptor-Mediated Inhibition of Adenylate Cyclase in NG108-15 Neuroblastoma x Glioma Cells by N-Ethylmaleimide. McHardy M. Smith and T. Kendall Harden	425
Benzodiazepines: Rat Pinealocyte Binding Sites and Augmentation of Norepinephrine-Stimulated N-Acetyltransferase Activity. Elizabeth Matthew, Andrew G. Parfitt, David Sugden, Dean L. Engelhardt, Earl A. Zimmerman and David C. Klein	434
Characteristics of Ca Influxes Through Voltage- and Receptor-Operated Ca Channels in Uterine Smooth Muscle. Seiji Ichida, Masahiro Moriyama and Motome Terao	439
Possible Involvement of Endogenous Opiates in the Tolerance to the Anorectic Effect of Fenfluramine. Antonio Groppetti, Marco Parenti, Laura Dellavedova and Felice Tirone	446
Alterations in Cardiac Alpha and Beta Adrenoceptors During the Development of Spontaneous Hypertension. Shizuo Yamada, Tsuyoshi Ishima, Takako Tomita, Machiko Hayashi, Tadahiko Okada and Eiichi Hayashi	454
Demonstration of Beta Adrenoceptor Blockade by Propafenone Hydrochloride: Clinical Pharmacologic, Radioligand Binding and Adenylate Cyclase Activation Studies. Andrew A. McLeod, Gary L. Stiles and David G. Shand	461
Effect of 1-(3-Chloroanilino)-4-Phenylphthalazine (MY-5445), a Specific Inhibitor of Cyclic GMP Phosphodiesterase, on Human Platelet Aggregation. Masatoshi Hagiwara, Toyoshi Endo, Toshiji Kanayama and Hiroyoshi Hidaka	467
Differential Effects of Dazoxiben, a Selective Thromboxane-Synthase Inhibitor, on Platelet and Renal Prostaglandin-Endoperoxide Metabolism. P. Patrignani, P. Filabozzi, F. Catella, F. Pugliese and C. Patrono	472
Differences in the Effects of Selenite and Biological Selenium on the Chemical Form and Distribution of Mercury After the Simultaneous Administration of HgCl₂ and Selenium to Rats. L. Magos, T. W. Clarkson and A. R. Hudson	478
Analyses of the Cardiac Action of the Bradycardic Agent, AQ-A 39, by Use of Isolated, Blood-Perfused Dog-Heart Preparations. Mitsuo Kawada, Keisuke Satoh and Norio Taira	484
Comparison of Calcium Channel Inhibitors on Vagal Heart Rate Responses Elicited by Arterial Baroreceptor Reflexes in Anesthetized Dogs. David G. Taylor and Thomas E. Kowalski	491
Influence of Papaverine on Spontaneous Activity of Isolated Right Atria from Small Mammals. Michael C. Sanguinetti and Theodore C. West	500
Role of Leukocytes in Acute Myocardial Infarction in Anesthetized Dogs: Relationship to Myocardial Salvage by Anti-Inflammatory Drugs. Kevin M. Mullane, Nicholas Read, John A. Salmon and Salvador Moncada	510
Characterization of the Block of Sodium Channels by Phenytoin in Mouse Neuroblastoma Cells. Norio Matsuki, Fred N. Quandt, Robert E. Ten Eick and Jay Z. Yeh	523