

CONTENTS

Catecholamine-Induced Renin Release in the Anesthetized Mongrel Dog Is Due to Both <i>Alpha</i> and <i>Beta</i> Adrenoceptor Stimulation: Evidence That Only the <i>Alpha</i> Adrenoceptor Component is Prostaglandin Mediated. Richard D. Olson, Alan S. Nies and John G. Gerber	483
Effects of Anesthetics and Electrical Stimulation on Nigrostriatal Dopaminergic Neurons. Thoms J. McCown, Robert A. Mueller and George R. Breese	489
Failure of Naloxone to Reduce Clonidine-Induced Changes in Blood Pressure, Heart Rate and Sympathetic Nerve Firing in Cats. Allen T. Shropshire and Robert L. Wendt	494
Evidence for a Central Sympathoexcitatory Action of <i>Alpha</i>-2 Adrenergic Antagonists. Robert B. McCall, Margaret R. Schuette, Stephen J. Humphrey, Robert A. Lahti and Craig Barsuhn	501
Differential Effect of Cimetidine on Drug Oxidation (Antipyrine and Diazepam) vs. Conjugation (Acetaminophen and Lorazepam): Prevention of Acetaminophen Toxicity by Cimetidine. Darrell R. Abernethy, David J. Greenblatt, Marcia Divoll, Barbara Ameer and Richard I. Shader	508
Apparent Irreversible H₂-Receptor Blocking and Prolonged Gastric Antisecretory Activities of 3-N-(3-[3-(1-Piperidinomethyl)Phenoxy]Propyl) Amino-4-Amino-1,2,5-Thiadiazole-1-Oxide (L-643,441). Mary Lou Torchiana, Robert G. Pendleton, Patricia G. Cook, Carol A. Hanson and Bradley V. Clineschmidt	514
Effects of Piperonyl Butoxide on Cephalosporin Nephrotoxicity in the Rabbit. An Effect on Cephaloridine Transport. Bruce M. Tune, Chao-Hen Kuo, Jerry B. Hook, Chieh-Yin Hsu and Doris Fravert	520
Relative Involvement of <i>Mu</i>, <i>Kappa</i> and <i>Delta</i> Receptor Mechanisms in Opiate-Mediated Antinociception in Mice. Susan J. Ward and A. E. Takemori	525
Effect of External Cardiopulmonary Resuscitation on Lidocaine Pharmacokinetics in Dogs. Moses S. S. Chow, Robert A. Ronfeld, Robert A. Hamilton, Rosemarie Helmink and Arnold Fieldman	531
Aldehyde Dehydrogenase-Dependent Acetaldehyde Metabolism in Periportal and Pericentral Regions of the Perfused Rat Liver. Toru Kashiwagi, Kai O. Lindros, Sungchul Ji and Ronald G. Thurman	538
Qualitative and Quantitative Differences between the Postsynaptic <i>Alpha</i> Adrenoceptors of Rabbit Ear Artery and Thoracic Aorta. Ralph E. Purdy, Donald W. Ashbrook, George L. Stupecky and Mitchell Y. Watanabe	543
Selective Antagonism of the Antinociceptive Effect of Intrathecally Applied <i>Alpha</i> Adrenergic Agonists by Intrathecal Prazosin and Intrathecal Yohimbine. James R. Howe, Jia-Yi Wang and Tony L. Yaksh	552
Aromatic and Benzylic Hydroxyl Substitution of Imidazolines and Phenethylamines: Differences in Activity at <i>Alpha</i>-1 and <i>Alpha</i>-2 Adrenergic Receptors. Robert R. Ruffolo, Jr. and James E. Waddell	559
Therapeutic and Adjunctive Applications of an Imidazoline Anti-Inflammatory Agent. Michael P. Holsapple, Jeannie Trizzino, David E. Nichols and George K. W. Yim	567
Potassium Chloride- and Norepinephrine-Induced Contractile Responses in Rabbit Pulmonary Blood Vessels. Ralph J. Altieri, James S. Douglas and C. N. Gillis	572
Pharmacological Analysis of Norepinephrine Responses in Rabbit Pulmonary Blood Vessels. Ralph J. Altieri, James S. Douglas and C. N. Gillis	579
Effects of Lithium and Haloperidol Administration on the Rat Brain Levels of Substance P. Jau-Shyong Hong, Hugh A. Tilson and Kazuaki Yoshikawa	590
Inhibition of Mitochondrial Function is Not the Diuretic Mechanism of Ethacrynic Acid in the Dog. Petter A. Steen, James H. Milde and Gerald A. Gronert	594
<i>In Vivo</i> Safety of Hollow Fiber Enzyme-Reactors with Immobilized Phenylalanine Ammonia-Lyase in a Large Animal Model for Phenylketonuria. Clara M. Ambrus, Satya D. Sharma, Csaba Horvath, Krishna Kalghatgi, Sidney Anthonie, Julian L. Ambrus, Carol Cooley and Edwin A. Mirand	598

Contents Continued on iv

Myocardial Disposition of Amiodarone in the Dog. Roberto Latini, Stuart J. Connolly and Robert E. Kates	603
Effect of Aminophylline on Amphotericin B Nephrotoxicity in the Dog. John F. Gerkens, Hugo Th. Heidemann, Edwin K. Jackson and Robert A. Branch	609
Metabolism of [¹⁴C]Paraldehyde in Mice <i>in Vivo</i>, Generation and Trapping of Acetaldehyde. Malgorzata M. Zaleska and Peter K. Gessner	614
Changes in Histamine Synthetic Activity, Histamine Content and Responsiveness to Compound 48/80 with Maturation of Rat Peritoneal Mast Cells. Michael A. Beaven, Diane L. Aiken, Elizabeth WoldeMussie and Andrew H. Soll	620
Chronic Sulpiride Treatment Produces Supersensitivity of Striatal Adenylate Cyclase to Dopamine in Sexually Immature or Adult Castrated Rats. Margaret E. Gnegy, Adele Bernabei and Glenn Treisman	627
Enkephalins Molulate [³H]Dopamine Release from Rabbit Retina <i>in Vitro</i>. M. L. Dubocovich and N. Weiner	634
Rapid Decrease in Rat Brain <i>Beta</i> Adrenergic Receptor Binding during Combined Antidepressant <i>Alpha-2</i> Antagonist Treatment. James A. Scott and Fulton T. Crews	640
Normal and Retrograde Perfusion To Probe the Zonal Distribution of Sulfation and Glucuronidation Activities of Harmol in the Perfused Rat Liver Preparation. K. Sandy Pang, Henk Koster, Ina C. M. Halsema, Egbert Scholtens, Gerard J. Mulder and Richard N. Stillwell	647
Intrinsic Sympathomimetic Activity of the Partial Agonist Prenalterol in Relation to <i>Beta</i> Adrenoceptor Interaction in Various Tissues, <i>in Vitro</i>. H. Mattsson, A. Hedberg and E. Carlsson	654
Effects of <i>d</i>-Amphetamine and Apomorphine upon Operant Behavior and Schedule-Induced Licking in Rats with 6-Hydroxydopamine-Induced Lesions of the Nucleus Accumbens. T. W. Robbins, D. C. S. Roberts and G. F. Koob	662
Alterations in Muscarinic Cholinergic Receptors after Preganglionic Denervation of the Superior Cervical Ganglion in Cats. Takashi Taniguchi, Kazuyoshi Kurahashi and Motohatsu Fujiwara	674
Functional Evidence for Two Stereochemically Different <i>Alpha-2</i> Adrenoceptors Regulating Central Norepinephrine and Serotonin Release. Maurizio Raiteri, Guido Maura and Paola Versace	679
Inactivation of Cytochrome P-450 by a Troleandomycin Metabolite. Protective Role of Glutathione. Dominique Pessayre, Marina Tinel, Dominique Larrey, Barton Cobert, Christian Funck-Brentano and Gerard Babany	685
Circulating Prostacyclin Metabolites in the Dog. Bruce M. Taylor, Ronald J. Shebuski and Frank F. Sun	692
Drug Metabolism in Isolated Proximal Tubule Cells: Aldehyde Dehydrogenase. J. T. Hjelle, D. R. Petersen and J. J. Hjelle	699
Errata	706
Index, Volume 224, January-March, 1983	709

AUTHOR INDEX

Abernethy, D. R., 508	Gerkens, J. F., 609	Lahti, R. A., 501	Shebuski, R. J., 692
Aiken, D. L., 620	Gessner, P. K., 614	Larrey, D., 685	Shropshire, A. T., 494
Altieri, R. J., 572, 579	Gillis, C. N., 572, 579	Latini, R., 603	Soll, A. H., 620
Ambrus, C. M., 598	Gnegy, M. E., 627	Lindros, K. O., 538	Steen, P. A., 594
Ambrus, J. L., 598	Greenblatt, D. J., 508	Mattsson, H., 654	Stillwell, R. N., 647
Ameer, B., 508	Gronert, G. A., 594	Maura, G., 679	Stupecky, G. L., 543
Anthone, S., 598	Halsema, I. C. M., 647	McCall, R. B., 501	Sun, F. F., 692
Ashbrook, D. W., 543	Hamilton, R. A., 531	McCown, T. J., 489	Takemori, A. E., 525
Babany, G., 685	Hanson, C. A., 514	Milde, J. H., 594	Taniguchi, T., 674
Barsuhn, C., 501	Hedberg, A., 654	Mirand, E. A., 598	Taylor, B. M., 692
Beaven, M. A., 620	Heidemann, H. Th., 609	Mueller, R. A., 489	Thurman, R. G., 538
Bernabei, A., 627	Helmink, R., 531	Mulder, G. J., 647	Tilson, H. A., 590
Branch, R. A., 609	Hjelle, J. J., 699	Nichols, D. E., 567	Tinel, M., 685
Breese, G. R., 489	Hjelle, J. T., 699	Nies, A. S., 483	Torchiana, M. L., 514
Carlsson, E., 654	Holsapple, M. P., 567	Olson, R. D., 483	Treisman, G., 627
Chow, M. S. S., 531	Hong, J. S., 590	Pang, K. S., 647	Trizzino, J., 567
Clineschmidt, B. V., 514	Hook, J. B., 520	Pendleton, R. G., 514	Tune, B. M., 520
Cobert, B., 685	Horváth, C., 598	Pessayre, D., 685	Versace, P., 679
Connolly, S. J., 603	Howe, J. R., 552	Petersen, D. R., 699	Wadell, J. E., 559
Cook, P. G., 514	Hsu, C.-Y., 520	Purdy, R. E., 543	Wang, J.-Y., 552
Cooley, C., 598	Humphrey, S. J., 501	Raiteri, M., 679	Ward, S. J., 525
Crews, F. T., 640	Jackson, E. K., 609	Robbins, T. W., 662	Watanabe, M. Y., 543
Divoll, M., 508	Ji, S., 538	Roberts, D. C. S., 662	Weiner, N., 634
Douglas, J. S., 572, 579	Kalghatgi, K., 598	Ronfeld, R. A., 531	Wendt, R. L., 494
Dubocovich, M. L., 634	Kashiwagi, T., 538	Ruffolo, R. R., Jr., 559	WoldeMussie, E., 620
Fieldman, A., 531	Kates, R. E., 603	Scholtens, E., 647	Yaksh, T. L., 552
Fravert, D., 520	Koob, G. F., 662	Schuette, M. R., 501	Yim, G. K. W., 567
Fujiwara, M., 674	Koster, H., 647	Scott, J. A., 640	Yoshikawa, K., 590
Funck-Brentano, C., 685	Kuo, C.-H., 520	Shader, R. I., 508	Zaleska, M. M., 614
Gerber, J. G., 483	Kurahashi, K., 674	Sharma, S. D., 598	