

INDEX

Volume 149, July-September 1965

- Acetohexamide metabolism, 272
 Acetylcholine in catecholamine depletion by reserpine, morphine and insulin, 193
 Acetylcholinesterase-staining, in cholinergic fibers of the gut, 358
 Acetylmethadol metabolism in the rat, 436
 Acid-base balance, effect on diuresis from furosemide, 404
 Adams, J. E., *see* Standaert, F. G., 113
 Adamson, R. H., *see* Hart, L. G., 7
 Adrenergic blocking agents, effects in frogs, 65
 β -Adrenergic blocking drug, cardiovascular response to anoxia, influence, 79
 Adrenergic fibers, in gut, 358
 β -Adrenergic receptor, block from MJ-1998 and MJ-1999, 183
 blockade by phenethanolamines and pronethalol, 174
 Adrenergic receptors in frog heart, 65
 β -Adrenergic receptors, blockade by phenethanolamines, 161
 Albuquerque, E. X. and Smith, C. M., 320
 Alcohol metabolism by isolated perfused rat liver, 36
 Allopurinol as an inhibitor of uric acid synthesis, 417
 Amphetamine, effects on slow cortical potential oscillation, 301
 Analgesic-antagonist interactions in rats, 385
 Analgesics, effects on bile duct *in vivo* and *in vitro*, 373
 Angiotensin, effects in vascular smooth muscle, 106
 Anoxia, coronary vasodilatation, 79
 Antiadrenergic agents, effect on response of rat atria to ganglion stimulating agents, 225
 Anticonvulsant properties of phencyclidine, 71
 Anticurare action, 113
 Antidromic motor nerve discharge after succinylcholine, 124
 Antimuscarinic agents, antagonism of epinephrine by, 351
 effect on response of rat atria to ganglion stimulating agents, 225
 Aortic strip, sensitivity to pressor agents, 106
 Arousal in cats, effect of thiopental and DMHP, 138
 Arterial smooth muscle, heterogeneous distribution of receptors in, 106
 ATP, chronotropic effects on the sinus node of the dog, 233
 Atropine, antagonism of epinephrine-induced contractions of nictitating membrane, 351
 Autonomic effects of protriptyline, 365
 Autonomic fibers, in gut, 358
 Aviado, D. M., *see* Folle, L. E., 79
 Axelrod, J., Inscoc, J. K. and Daly, J., 16
 see Glowinski, J., 43
 Benzi, G., *see* Crema, A., 373
 Berté, F., *see* Crema, A., 373
 Bhagat, B., 206
 Bile duct, effects of opioids in cats and dogs, 373
 Binding of cyclizine and chlorcyclizine to plasma protein, 29
 Bircher, R. P., Chai, C. Y. and Wang, S. C., 91
 Bohner, B., *see* Chen, G., 71
 Boshart, C. R., Will, L., Pirré, A. and Ringler, I., 57
 Bowers, W., *see* Tocco, D. J., 263
 Boyd, E. S. and Meritt, D. A., 138
 Brain, slow waves in, effect of drugs, 301
 uptake, release and metabolism of norepinephrine by, 43
 Brennan, F. T., *see* Wiebelhaus, V. D., 397
 Bronchial constriction from morphine and meperidine, 379
 Burns, J. J., *see* Kuntzman, R., 29
 C¹⁴-labeled morphine, distribution of in cat central nervous system, 146
 Caffeine, absorption and distribution in coffee-drinkers and nondrinkers, 156
 effects on sleep in coffee-drinkers, 156
 Cafruny, E. J., *see* Gussin, R. Z., 1
 Cairncross, K. D., McCulloch, M. W. and Mitchellson, F., 365
 Campos, H. A., *see* Stitzel, R. E., 193
 Cardiovascular effects of β -adrenergic blockade, 174
 Carrier, O., Jr. and Holland, W. C., 212
 Catalase in metabolism of methanol, 36
 Catecholamine, depletion by reserpine, morphine, or insulin, role of acetylcholine, 193
 -fluorescence, in innervation of gut, 358
 levels in tachyphylaxis to amphetamine and tyramine, 206
 -releasing agents, effects of norepinephrine uptake in brain, 43
 uptake, release and metabolism in rat, 43
 Catecholamines, direct and indirect effect of stereoisomers, 199
 effect of potentiating agents on uptake; 50
 effects in frog heart and circulation, 65

- effects of cocaine on response and distribution, 50
 effects of reserpine on response and distribution, 50
 in release of free fatty acids by phentolamine, 57
 lack of effect of thyroxine on response to, 336
 Central nervous system stimulation from phencyclidine, 71
 Cetrangolo, R., *see* Erlij, D., 65
 Chai, C. Y., *see* Bircher, R. P., 91
 Chen, G., Ensor, C. R. and Bohner, B., 71
 Chernov, H. I. and Woods, L. A., 146
 see Grumbach, L., 385
 Chiang, T. S. and Leaders, F. E., 225
 Chlorcyclizine, metabolism and distribution, 29
 Chlormerodrin-Hg²⁰³, transport into renal tissue, 1
 Chlorpromazine, effects on slow cortical potential oscillation, 301
 Christensen, V. W., *see* Tocco, D. J., 263
 Chronotropic effects of nucleotides and nucleosides, 233
 Circulation, limb, anoxia response and MJ-1999, 79
 Cocaine, effects on metabolism of catecholamines, 50
 effects on pressor response to catecholamines, 50
 effects on uptake of catecholamines, 50
 Coffee consumption, related to effects of caffeine in humans, 156
 Colchicine analogs, cytotoxic and antimutagenic activity, 409
 Compound MJ-1999, cardiovascular response to anoxia, influence, 79
 COMT inhibitors, effects on brain norepinephrine metabolism, 43
 Conduction velocity, relationship to sensitivity to DMPP in nerve, 320
 Coronary circulation, anoxia response and MJ-1999, 79
 Craig, A. B., Jr., 346
 Crema, A., Benzi, G., Frigo, G. M. and Berté, F., 373
 Culp, H. W., *see* McMahon, R. E., 272, 436
 Cyclizine, metabolism and distribution, 29

 D'Alena, P. and Featherstone, R. M., 351
 Daly, J., *see* Axelrod, J., 16
 Demethylation of cyclizine and chlorcyclizine, 29
 Deslanoside, production and prevention of cardiac arrhythmias, 91
 Diazepam metabolism in rat, dog and man, 423
 Digitoxin-H³, excretion in dogs, 257
 Digoxin metabolism by rat liver, 248
 Dihydromorphine-H³, metabolism and excretion, 446
 Dihydroxy compounds, O-methylation of hydroxylation of phenolic amines, 16
 Dimethylaminoazobenzene, effects on rat liver microsomal activity, 7
 Diuretic effects, of phencyclidine, compared with cocaine and epinephrine, 71
 of triamterene and pteridines, 397
 DMPP; comparison with succinylcholine and nicotine, 320
 effect on muscle spindles of the cat, 320
 effects in isolated rat atria, 225
 Dungan, K. W., *see* Lish, P. M., 161

 EEG arousal, effects of tetrahydrocannabinol derivative (DMHP), 138
 effects of thiopental, 138
 EEG, effects of CNS drugs, 301
 influence of PMP, 131
 Egerton, J. R., *see* Tocco, D. J., 263
 Ellingson, N. R., *see* Fleisher, J. H., 311
 Ensor, C. R., *see* Chen, G., 71
 Enterohepatic cycle as metabolic pathway for digitoxin in dogs, 257
 Epinephrine, antagonism by antimuscarinic agents in nictitating membrane, 351
 effect in isolated perfused rat liver, 346
 effects in vascular smooth muscle, 106
 hyperglycemia and hyperlipemia, prevention by MJ-1998 and MJ-1999, 183
 inotropic activity in turtle heart, 219
 ionization, effect of on cardiac stimulation, 219
 Erlij, D., Cetrangolo, R. and Valadez, R., 65
 Ethacrynic acid, effects on renal mercury transport, 1
 Excretion of dihydromorphine-H³, 446
 of morphine in the cat, 146
 of tritiated digitoxin in dogs, 257

 Featherstone, R. M., *see* D'Alena, P., 351
 Fleisher, J. H., Moen, T. H. and Ellingson, N. R., 311
 Folle, L. E. and Aviado, D. M., 79
 Fouts, J. R., *see* Hart, L. G., 7
 Free fatty acid release, by phentolamine, 57
 effects of reserpine and guanethidine, 57
 Frigo, G. M., *see* Crema, A., 373
 Fujimori, B., *see* Kato, M., 124, 131
 Furosemide, effects on sodium and water excretion, 404

 Gaffney, T. E., *see* Margolius, H. S., 329
 Ganglionic blockade after chronic administration of mecamylamine, 98
 Glowinski, J. and Axelrod, J., 43
 Goldstein, A., Warren, R. and Kaizer, S., 156
 Gómez, J., *see* Vidrio, H., 98
 Grumbach, L. and Chernov, H. I., 385
 Guanethidine as antagonist of release of free fatty acids by phentolamine, 57
 Gussin, R. Z. and Cafruny, E. J., 1

 Hardman, H. F. and Reynolds, R. C., 219

- Hart, L. G., Adamson, R. H., Morris, H. P. and Fouts, J. R., 7
- Heart, anoxia response and MJ-1999, 79
- Hemicholinium, effects on catecholamine depletion by reserpine, morphine or insulin, 193
- Hepatic blood flow, effect of epinephrine, 346
- Hepatomas, microsomal enzyme activity, 7
- Hertting, G., *see* Van Zwieten, P. A., 50
- Hexamethonium, effects on ventricular arrhythmia, 91
- Holland, W. C., *see* Carrier, O., Jr., 212
- Hook, J. B. and Williamson, H. E., 404
- Hug, C. C., Jr. and Mellett, L. B., 446
- Hydroxyhexamide, hypoglycemic action of, 272
- Hypertension after chronic administration of mecamlamine, 98
- Hypoglycemic effects of acetoexamide and hydroxyhexamide, 272
- Indoles, methylated dihydroxy derivatives, 16
- Inscoc, J. K., *see* Axelrod, J., 16
- Isoproterenol, antagonism by phenethanolamines in smooth and cardiac muscle, 161
- Jacobowitz, D., 358
- James, T. N., 233
- Jewett, R. E., *see* Norton, S., 301
- Kaizer, S., *see* Goldstein, A., 156
- Kato, M. and Fujimori, B., 124
- Motokizawa, F. and Fujimori, B., 131
- Katzung, B. G. and Meyers, F. H., 257
- Kirchgesner, T., *see* Stanton, H. C., 174
- Klutch, A., *see* Kuntzman, R., 29
- Koechlin, B. A., *see* Schwartz, M. A., 423
- Krakoff, I. H. and Meyer, R. L., 417
- Krol, G., *see* Schwartz, M. A., 423
- Kuntzman, R., Klutch, A., Tsai, I. and Burns, J. J., 29
- Kvam, D. C., Riggilo, D. A. and Lish, P. M., 183
- Lage, G. L. and Spratt, J. L., 248
- LaPidus, J. B., *see* Patil, P. N., 199
- Larsen, T., *see* Wiebelhaus, V. D., 397
- Leaders, F. E., *see* Chiang, T. S., 225
- Levallorphan, antagonism of opioids by, 385
- Linkenheimer, W. H., Stolzenberg, S. J. and Wozniak, L. A., 280
- Lish, P. M., Weikel, J. H. and Dungan, K. W., 161
see Kvam, D. C., 183
- Liver, role in metabolism of methanol, 36
- tumors, drug metabolism by, 7
- tumors, microsomal enzyme activity, 7
- Maass, A. R., *see* Wiebelhaus, V. D., 397
- McCulloch, M. W., *see* Cairncross, K. D., 365
- McMahon, R. E., Culp, H. W. and Marshall, F. J., 436
- Marshall, F. J. and Culp, H. W., 272
- Mannering, G. J., *see* Van Harken, D. R., 36
- MAO inhibitors, effect on brain norepinephrine metabolism, 43
- Margolius, H. S. and Gaffney, T. E., 329
- Marshall, F. J., *see* McMahon, R. E., 272, 436
- Mecamylamine, chronic administration to cats, 98
- Mellett, L. B., *see* Hug, C. C., Jr., 446
- Meperidine, respiratory effects, 379
- Mercury transport in kidney slices, 1
- Meritt, D. A., *see* Boyd, E. S., 138
- Metabolic effects of MJ-1998 and MJ-1999, β -adrenergic receptor blocking agents, 183
- fate of thiabendazole in farm animals, 263
- Metabolism, and excretion of diazepam, 423
- and excretion of sulfaethoxypridazine in the heifer, 280
- of acetylmethadol in rat, 436
- of catecholamines, effects of potentiating agents, 50
- of dihydromorphine-H³ in rat, 446
- of H³-digoxin by rat tissues, 248
- of tritiated digitoxin in dogs, 257
- Metabolites of secobarbital in human urine, 23
- Methanol metabolism in isolated perfused liver, 36
- Meyer, R. L., *see* Krakoff, I. H., 417
- Meyer, F. H., *see* Katzung, B. G., 257
- Microsomal enzymes, activity in normal and tumorous liver, 7
- in liver, methylation and hydroxylation, 16
- in rat liver, metabolism of secobarbital, 23
- Mitchelson, F., *see* Cairncross, K. D., 365
- MJ-1998 and MJ-1999, comparison with pronethalol in cardiovascular systems, 174
- Moen, T. H., *see* Fleisher, J. H., 311
- Moran, N. C., *see* van der Schoot, J. B., 336
- Morphine, distribution in central nervous system of the cat, 146
- isolation from and measurement in mammalian tissues, 146
- respiratory effects, 379
- species variation in distribution, 146
- Morris, H. P., *see* Hart, L. G., 7
- Motokizawa, F., *see* Kato, M., 131
- Muscle, relaxants, 113
- spindle stimulation by DMPP, 320
- Nalorphine, antagonism of opioids by, 385
- Natriuresis, from furosemide, 404
- from pteridines, 397
- Neuromuscular, blocking agents, 113
- facilitation, 113
- junctions, effects of 2-PAM and TNB-4, 311
- transmission, blockade of, 113
- Nicotine, effect in isolated rat atria, 225
- Nictitating membrane, epinephrine-atropine antagonism in, 351
- Nitrogen metabolism in chick embryos, 417

- Noracetyl methadol, as an active metabolite of acetylmethadol, 436
metabolism in the rat, 436
- Norbormide, toxicity and mechanism of action in rats, 288
- Norepinephrine, effects of thyroid status on cardiovascular responses, 329
uptake, release and metabolism after intraventricular administration, 43
- Norton, S. and Jewett, R. E., 301
- Nucleosides, chronotropic effect on the sinus node of the dog, 233
- O-Methylation of dihydroxy derivatives of phenolic amines and indoles, 16
- Oximes, effects on neuromuscular function, 311
- Palmer, S., *see* Schwartz, M. A., 423
- PAM effects on neuromuscular junctions, 311
- Pardo, E. G., *see* Vidrio, H., 98
- Parmenter, K., *see* Stanton, H. C., 174
- Patil, P. N., Tye, A. and LaPidus, J. B., 199
- Pentylentetrazol, production of ventricular arrhythmia from production and prevention, 91
- pH on epinephrine inotropic receptors, effect of, 219
- Phencyclidine, comparison with cocaine and desoxyephedrine, 71
sympathetic effects of, 71
- Phenobarbital, effects on normal and tumorous rat liver, 7
- Phenolic amines, methylated dihydroxy, 16
- Phentolamine, release of free fatty acids by, 57
- Picrotoxin, production and prevention of arrhythmias, 91
- Pirré, A., *see* Boshart, C. R., 57
- Plasma FFA, effects of β -adrenergic blocking agents, 183
- PMP, effects on polysynaptic and monosynaptic reflexes, 131
effects on spinal motor activity, 131
- Postma, E., *see* Schwartz, M. A., 423
- Potassium exchange on isolated perfused liver, effects of epinephrine, 346
- Potential of response to catecholamines, by cocaine, 50
by reserpine, 50
- Prejunctional drug actions, 113
- Presynaptic drug actions, 113
- Probenecid, inhibition of diuresis from furosemide, 404
- Protriptyline, anticholinergic effects of, 365
interactions with catecholamines, 365
- Pteridines, diuretic effects of, 397
- Radioiodine, effect on cardiovascular responses to norepinephrine, 329
- Recruiting response, effects of thiopental and DMHP, 138
- Reserpine, as antagonist of release of free fatty acids by phentolamine, 57
effects on metabolism of catecholamines, 50
effects on pressor response to catecholamines, 50
effects on uptake of catecholamines, 50
in production of supersensitivity to norepinephrine, 212
involvement of acetylcholine in catecholamine depletion, 193
- Respiratory effect of morphine and meperidine, 379
- Reynolds, R. C., *see* Hardman, H. F., 219
- Riggilo, D. A., *see* Kvam, D. C., 183
- Ringler, I., *see* Boshart, C. R., 57
- Rodenticidal actions of norbormide, 288
- Rodríguez, R., *see* Vidrio, H., 98
- Rosenblum, C., *see* Tocco, D. J., 263
- Roszkowski, A. P., 288
- Sandberg, R. L., *see* Somlyo, A. V., 106
- Schindler, R., 409
- Schwartz, M. A., Koechlin, B. A., Postma, E., Palmer, S. and Krol, G., 423
- Secobarbital, metabolism in humans, 23
- Shemano, I. and Wendel, H., 379
- Shideman, F. E., *see* Stitzel, R. E., 193
- Sleep, influence of caffeine in humans, 156
- Smith, C. M., *see* Albuquerque, E. X., 320
- Somlyo, A. P., *see* Somlyo, A. V., 106
- Somlyo, A. V., Sandberg, R. L. and Somlyo, A. P., 106
- Sosnowski, G., *see* Wiebelhaus, V. D., 397
- Spatial configuration and activity of adrenergic agents, 199
- Species, differences in metabolism of antihistamines, 29
variation in response to chronic mecamylamine administration, 98
- Spinal motor activity, effects of PMP, 131
- Spratt, J. L., *see* Lage, G. L., 248
- Standaert, F. G. and Adams, J. E., 113
- Stanton, H. C., Kirchgessner, T. and Parmenter, K., 174
- Steady potential oscillation in cat cortex, 301
- Stitzel, R. E., Campos, H. A. and Shideman, F. E., 193
- Stolzenberg, S. J., *see* Linkenheimer, W. H., 280
- Structure-activity relation among analogs of colchicine, 409
- Succinylcholine, 113
production of fascicular twitching in the cat, 124
- Sulfaethoxypyridazine, metabolism in the heifer, 280
- Sulfhydryl in kidney, interaction with chloro-merodrin and ethacrynic acid, 1

- Supersensitivity, of isolated arteries after reserpine, 212
to norepinephrine during chronic mecamylamine administration, 98
- Sympathetic fibers, in gut, 358
- Sympathomimetic amines, effect of isomers, 199
- Sympathomimetic effects of phencyclidine, 71
- Tachyphylaxis to amphetamine, effects on tyramine tachyphylaxis, 206
relation to catecholamine levels, 206
- Tephly, T. R., *see* Van Harken, D. R., 36
- Tetraethylammonium, effects on cardiac arrhythmias, 91
- Tetrahydrocannabinol derivative (DMHP), effects on arousal, 138
- Thiabendazole absorption, distribution, metabolism and excretion in farm animals, 263
- Thiopental, effects on arousal, 138
effects on slow cortical potential oscillation, 301
- Thyroid hormone, effect on cardiovascular response to norepinephrine, 329
effects on cardiovascular response to epinephrine and norepinephrine, 336
- Tocco, D. J., Egerton, J. R., Bowers, W., Christensen, V. W. and Rosenblum, C., 263
- Toxicity, selective, of norbormide for rats, 288
- Transport, active, of mercury by slices of renal cortex, 1
- Tsai, I., *see* Kuntzman, R., 29
- Twitching, fascicular, mechanism of production by succinylcholine, 124
- Tye, A., *see* Patil, P. N., 199
- Tyramine, influence on development of tachyphylaxis to amphetamine, 206
- Uric acid, inhibition of synthesis in the chicken, 417
- Valadez, R., *see* Erlj, D., 65
- Van der Schoot, J. B. and Moran, N. C., 336
- Van Harken, D. R., Tephly, T. R. and Manning, G. J., 36
- Van Zwieten, P. A., Widhalm, S. and Hertting, G., 50
- Vasoconstriction as mechanism of action of norbormide, 288
- Vasopressin, effects in vascular smooth muscle, 106
- Vidrio, H., Gómez, J., Rodríguez, R. and Pardo, E. G., 98
- Waddell, W. J., 23
- Wakefulness, from caffeine in human subjects, 156
- Wang, S. C., *see* Bircher, R. P., 91
- Warren, R., *see* Goldstein, A., 156
- Weikel, J. H., *see* Lish, P. M., 161
- Weinstock, J., *see* Wiebelhaus, V. D., 397
- Wendel, H., *see* Shemano, I., 379
- Widhalm, S., *see* Van Zwieten, P. A., 50
- Wiebelhaus, V. D., Weinstock, J., Maass, A. R., Brennan, F. T., Sosnowski, G. and Larsen, T., 397
- Will, L., *see* Boshart, C. R., 57
- Williamson, H. E., *see* Hook, J. B., 404
- Woods, L. A., *see* Chernov, H. I., 146
- Wozniak, L. A., *see* Linkenheimer, W. H., 280