

## INDEX

Volume 162, July-August 1968

- Absorption, of ephedrine in man, 139
- Acetanilid metabolites, effects on normal and glucose-6-phosphate dehydrogenase-deficient erythrocytes, 155
- Acetylcholine, in guinea-pig ileum, effects of reserpine, 270
- Adrenal medulla, cortical control in rats, 227
- Adrenergic blockade, effects on responses to epinephrine infusion, 246
- from halogenated phenyl- $\beta$ -haloethylamines, 38
- Adrenergic neurons, in cat superior cervical ganglion and cervical sympathetic nerve trunk, 213
- Adrenergic transmitter, "false," effects on post-ganglionic sympathetic transmission, 70
- Alpha* adrenergic receptors, stimulation by tyramine in isolated nictitating membrane, 263
- Amine uptake, effect of various drug pretreatments, 121
- Aminophylline, effect on glycogen synthetase activity, 134
- Anderson, E. A., *see* Stewart, W. C., 309
- Anderson, E. G., *see* Banna, N. R., 319
- Anesthetics, effect on monosynaptic and polysynaptic transmission in the spinal cord, 326
- Angiotensin, actions on canine myocardial and plasma catecholamines, 92
- effect on blood pressure responses to norepinephrine, tyramine and phenylephrine, 85
- Antiarrhythmic properties, of ICI 46037, 49
- Antihypertensive action, of diazoxide, 109
- Antiinflammatory activity, of indomethacin and plasma corticosterone in rats, 196
- Antitussive activity, use of 1,1-dimethyl-4-phenylpiperazinium iodide for testing, 190
- Arthur, M. S. and Fleming, W. W., 263
- Banna, N. R. and Anderson, E. G., 319
- Beckett, A. H., *see* Wilkinson, G. R., 139
- Belford, J. and Cunningham, M. A., 134
- Beta* adrenergic receptor blockade, influence on positive chronotropic response and uptake of norepinephrine in perfused guinea-pig heart, 239
- Beta* adrenergic stimulation, by quinterenol, 60
- Black, R. G., *see* Halpern, L. M., 166
- Blood pressure responses, effects of angiotensin, cocaine and desipramine, 85
- Bloom, F. E., *see* Roth, R. H., 203
- Booher, K. D., *see* Scriabine, A., 60
- Borison, H. L., *see* Rosenstein, R., 174
- Brainstem, cerebrospinal fluid of, respiratory effects of ethanol and procaine, 174
- Brill, W. A., *see* Schubert, J., 352
- Brody, T. M., *see* McNeill, J. H., 121
- Burns, J. J., *see* Ikeda, M., 338
- Calcium, effect on glycogen synthetase activity, 134
- Carbon dioxide, influence on respiration during morphine dependence, 182
- Carbon tetrachloride, effect on renal and plasma lipid content in cats, 344
- Cardiac properties, alterations by halothane, 101
- Cardioaccelerator nerve stimulation, effect of methyl dopa on chronotropic responses, 115
- Catecholamines, formed from tyrosine-C<sup>14</sup>, effect of chlorpromazine on accumulation and disappearance in brain, 294
- inotropic, effect on glycogen synthetase activity, 134
- level in heart and plasma, affected by angiotensin, 92
- Caudate nucleus, effect of dihydroxyphenylalanine, pheniprazine and dextroamphetamine on *in vivo* release of dopamine, 302
- Cerebrospinal fluid, respiratory effects of injections of ethanol and procaine, 174
- Cervical ganglion, superior, histochemistry and anatomy, 213
- Chlorpromazine, effect on accumulation and disappearance of catecholamines in brain, 294
- Cholinesterase inhibitor, effect of injection into medulla of rabbit, 309
- Chronotropic responses, to cardioaccelerator nerve stimulation, effect of methyl dopa, 115
- to norepinephrine, action of *beta* adrenergic receptor blocking agent on, 239
- Cocaine, effect on blood pressure responses to norepinephrine, tyramine and phenylephrine, 85
- Conney, A. H., *see* Ikeda, M., 338
- Corbin, R. W., *see* de Jong, R. H., 326
- Cortical control, of adrenal medulla in rats, 227
- Cortical excitability, effects of gallamine triethiodide compared with other neuromuscular blocking agents, 166
- Corticosterone, plasma, antiinflammatory activity in rats, 196
- Cough, induced by 1,1-dimethyl-4-phenylpiperazinium iodide, 190
- Cunningham, M. A., *see* Belford, J., 134
- Cyanide toxicity, antagonism of, in relation to *in vivo* activity of cytochrome oxidase, 352
- Cytochrome oxidase, *in vivo* activity, relation to

- antagonism of experimental cyanide toxicity, 352
- Davenport, R. D., Jr., *see* Zeff, H. J., 80
- DeFelice, S., *see* Pereira, J. N., 148
- de Jong, R. H., Robles, R., Corbin, R. W. and Nace, R. A., 326
- Denis, G., *see* Marchand, C., 331
- Desipramine, effect on blood pressure responses to norepinephrine, tyramine and phenylephrine, 85
- Dextroamphetamine, effect on release of dopamine from caudate nucleus, 302
- Diazoxide, mechanism of antihypertensive effect, 109
- Dihydroxyphenylalanine, effect on release of dopamine from caudate nucleus, 302
- 1,1-Dimethyl-4-phenylpiperazinium iodide, use in antitussive testing, 190
- Diphenylhydantoin, effects in experimental myocardial infarction, 80
- DiStefano, V., *see* Wong, L. C. K., 344
- Diuresis, effect of chronic morphine treatment in rats, 331
- DMAE, early and late ganglionic effects, 30
- Dopamine, *in vivo* release from caudate nucleus, effect of dihydroxyphenylalanine, pheniprazine and dextroamphetamine, 302
- Eakins, K. E., *see* Katz, R. L., 1
- Ehrenpreis, S., *see* Fleisch, J. H., 21
- Elko, E. E., *see* Garner, G. E., 38
- Emele, J. F., *see* Sanzari, N. P., 190
- Ephedrine, influence of urinary pH and urine volume output on metabolism in man, 139
- Epinephrine, cardiovascular effects after dual adrenergic blockade, 246
- Erythrocytes, normal and glucose-6-phosphate dehydrogenase-deficient, effects of metabolites of primaquine and acetanilid, 155
- Ethanol, respiratory effects after injection into cerebrospinal fluid of the brainstem in cats, 174
- Excretion, of ephedrine in man, 139
- Extraocular smooth muscle, role in intraocular pressure change after succinylcholine, 1
- Fainman, F. B., *see* Sanzari, N. P., 190
- Flanary, H. G., *see* Martin, W. R., 182
- Fleisch, J. H. and Ehrenpreis, S., 21
- Fleming, W. W., 277  
*see* Arthur, M. S., 263  
*see* Green, R. D., III, 254, 270
- Ford, G. D., *see* Peach, M. J., 92
- Fraser, I. M. and Vesell, E. S., 155
- Freeman, S. E., 10
- Fulton R. W., *see* Pals, D. T., 85
- Fundal strip of rat, thermal alteration in receptor activity, 21
- Gaffney, T. E., *see* Sugarman, S. R., 115
- Gallamine triethiodide, effects on facilitation of local cortical excitability, 166
- Ganglion, superior cervical, histochemistry and anatomy, 213
- Ganglion blockade, effect on sensitivity of guinea-pig ileum, 277
- Ganglionic actions of DMAE, 30
- Garner, G. E., Woodbury, R. A. and Elko, E. E., 38
- Gessner, P. K., *see* Winter, J. C., 286
- Giarman, N. J., *see* Roth, R. H., 203
- Gilgore, S., *see* Pereira, J. N., 148
- Glucose-6-phosphate dehydrogenase-deficient erythrocytes, effects of metabolites of primaquine and acetanilid, 155
- Glycogen synthetase activity, effect of inotropic catecholamines, calcium and aminophylline, 134
- Goldberg, A. H. and Phear, W. P. C., 101
- Goldman, I. M., *see* Scriabine, A., 60
- Green, R. D., III and Fleming, W. W., 254  
Fleming, W. W. and Schmidt, J. L., 270
- Haefely, W., *see* Thoenen, H., 70
- Hæusler, G., *see* Thoenen, H., 70
- Halogenated phenyl- $\beta$ -haloethylamines, effects on adrenergic blocking activity and sympathetic nervous system, 38
- Halothane, effects on mechanical properties of heart muscle, 101
- Halpern, L. M. and Black, R. G., 166
- Hausler, L. M., *see* Wohl, A. J., 109
- Heart muscle, alterations in mechanical properties produced by halothane, 101
- Hochstein, F. A., *see* Pereira, J. N., 148
- Holland, G. F., *see* Pereira, J. N., 148
- Huerlimann, A., *see* Thoenen, H., 70
- 5-Hydroxytryptamine, antagonists of, effects on spinal neuronal activity, 319  
phenoxybenzamine antagonism of, in rat stomach fundus preparation, 286
- Hypocholesteremia, from 5-(3-pyridyl)tetrazole, 148
- Hypophysectomy, effect on adrenal medulla, 227
- ICI 46037, antiarrhythmic properties, 49
- Ikeda, M., Conney, A. H. and Burns, J. J., 338
- Ileum of guinea pig, sensitivity changes after pretreatment with reserpine, 270  
supersensitivity produced by chronic ganglion blockade, 277
- Indomethacin, antiinflammatory activity in rats, 196

- Insecticides, stimulatory effect on warfarin metabolism in the rat, 338
- Intraocular pressure, mode of action of succinylcholine, 1
- Iorio, L. C., *see* Scriabine, A., 60
- Iwami, T., *see* Lucchesi, B. R., 49
- Jacobowitz, D. and Woodward, J. K., 213
- Jaramillo, J., 30
- Jasinski, D. R., *see* Martin, W. R., 182
- Katz, R. L. and Eakins, K. E., 1
- Kelly, O. A., *see* Martin, W. R., 182
- Lipid content, renal and plasma, changes in cats after carbon tetrachloride, 344
- Lipolysis inhibition, by 5-(3-pyridyl)tetrazole, 148
- Logan, C. R., *see* Martin, W. R., 182
- Lucchesi, B. R. and Iwami, T., 49
- Marchand, C. and Denis, G., 331
- Margolius, H. S., *see* Sugarman, S. R., 115
- Martin, W. R., Jasinski, D. R., Sapira, J. D., Flanary, H. G., Kelly, O. A., Thompson, A. K. and Logan, C. R., 182
- Masucci, F. D., *see* Pals, D. T., 85
- McCarthy, L. E., *see* Rosenstein, R., 174
- McIntosh, H. D., *see* Zeft, H. J., 80
- McKenzie, G. M. and Szerb, J. C., 302
- McNeill, J. H. and Brody, T. M., 121
- McShane, W. K., *see* Scriabine, A., 60
- Medulla, of rabbit, effect of injection of cholinesterase inhibitor, 309
- Metabolism, of ephedrine in man, 139  
of warfarin, effect of phenobarbital and insecticides, 338
- 4-Methoxy-3,5-dihydroxyphenylalanine, formation of a "false" adrenergic transmitter in pretreated cats, 70
- Methyl dopa, effect on chronotropic responses to cardioaccelerator nerve stimulation, 115
- MJ 1998, effect on uptake and chronotropic effects of norepinephrine in heart, 239
- Mohammed, S., *see* Sugarman, S. R., 115
- Monosynaptic transmission, in the spinal cord, effect of inhalation anesthetics, 326
- Moore, P. F., *see* Scriabine, A., 60
- Morphine, diuretic effect in rats, 331  
respiratory effects during a cycle of dependence, 182
- Myocardial infarction, effect of diphenylhydantoin therapy, 80
- Myocardium, catecholamine levels, effects of angiotensin, 92
- Nace, R. A., *see* de Jong, R. H., 326
- Nash, C. B., 246
- Neuromuscular blockade, from succinylcholine, antagonism by various drugs, 10
- Neuromuscular blocking agents, and facilitation of local cortical excitability, 166
- Neurons, adrenergic, in cat superior cervical ganglion and cervical sympathetic nerve trunk, 213
- Nictitating membrane, of cat, effects of tyramine, 263
- Norepinephrine, action of MJ 1998 on uptake in perfused guinea-pig heart, 239  
blood pressure responses to, affected by angiotensin, cocaine and desipramine, 85  
light and heavy storage particles, in rat heart and bovine splenic nerve, 203
- Nybäck, H. and Sedvall, G., 294
- Pals, D. T., Fulton, R. W. and Masucci, F. D., 85
- Peach, M. J. and Ford, G. D., 92
- Pereira, J. N., Holland, G. F., Hochstein, F. A., Gilgore, S., DeFelice, S. and Pinson, R., 148
- pH, urinary, influence on absorption, metabolism and excretion of ephedrine in man, 139
- Phear, W. P. C., *see* Goldberg, A. H., 101
- Pheniprazine, effect on release of dopamine from caudate nucleus, 302
- Phenobarbital, stimulatory effect on warfarin metabolism in the rat, 338
- Phenoxybenzamine, antagonism of tryptamines, indene isosteres and 5-hydroxytryptamine in rat stomach fundus, 286
- Phenyl- $\beta$ -haloethylamines, halogenated, effects on adrenergic blocking activity and sympathetic nervous system, 38
- Phenylephrine, blood pressure responses to, affected by angiotensin, cocaine and desipramine, 85
- Phosphorylase activation, effect of various drug pretreatments, 121
- Pinson, R., *see* Pereira, J. N., 148
- Plasma, catecholamine levels, effects of angiotensin, 92  
corticosterone, antiinflammatory activity in rats, 196  
lipid content, changes in cats after carbon tetrachloride, 344
- Pohorecky, L. and Rust, J. H., 227
- Polysynaptic transmission, in the spinal cord, effect of inhalation anesthetics, 326
- Postganglionic sympathetic transmission, effects of 4-methoxy-3,5-dihydroxyphenylalanine, 70
- Primaquine metabolites, effects on normal and glucose-6-phosphate dehydrogenase-deficient erythrocytes, 155
- Procaine, respiratory effects after injection into cerebrospinal fluid of the brainstem in cats, 174

- Propranolol, antiarrhythmic properties of the quaternary analog ICI 46037, 49
- 5-(3-Pyridyl)tetrazole, a hypocholesteremic lipolysis inhibitor, pharmacology of, 148
- Quinterenol, effects on *beta* adrenergic receptors, 60
- Ratliff, N. B., Jr., *see* Zeft, H. J., 80
- Receptor activity, thermal alteration in rat fundal strip, 21
- Renal lipid content, changes in cats after carbon tetrachloride, 344
- Reserpine, effects on sensitivity of isolated guinea-pig ileum, 270
- Respiration, effects of ethanol and procaine injected into cerebrospinal fluid of brainstem in cats, 174
- effects of morphine during a cycle of dependence, 182
- effects of sarin injected into medulla of rabbit, 309
- Risley, E. A., *see* Winter, C. A., 196
- Robles, R., *see* de Jong, R. H., 326
- Rosenstein, R., McCarthy, L. E. and Borison, H. L., 174
- Roth, F. E., *see* Wohl, A. J., 109
- Roth, R. H., Stjärne, L., Bloom, F. E. and Giarman, N. J., 203
- Rust, J. H., *see* Pohorecky, L., 227
- Sanzari, N. P., Fainman, F. B. and Emele, J. F., 190
- Sapira, J. D., *see* Martin, W. R., 182
- Sarin, effect on respiration after injection into medulla of rabbit, 309
- Schmidt, J. L., *see* Green, R. D., III, 270
- Schubert, J. and Brill, W. A., 352
- Scriabine, A., Moore, P. F., Iorio, L. C., Goldman, I. M., McShane, W. K. and Booher, K. D., 60
- Sedvall, G., *see* Nybäck, H., 294
- Sensitivity, of guinea-pig ileum, effects of pre-treatment with reserpine, 270
- Silber, R. H., *see* Winter, C. A., 196
- Spinal cord, effect of inhalation anesthetics on monosynaptic and polysynaptic transmission, 326
- Spinal neuronal activity, effects of 5-hydroxytryptamine antagonists, 319
- Spleen, isolated, analysis of supersensitivity, 254
- Splenic nerve, bovine, light and heavy norepinephrine storage particles, 203
- Stewart, W. C. and Anderson, E. A., 309
- Stjärne, L., *see* Roth, R. H., 203
- Succinylcholine, block of neuromuscular junction, antagonism by various drugs, 10
- mode of action on intraocular pressure, 1
- Sugarman, S. R., Margolius, H. S., Gaffney, T. E. and Mohammed, S., 115
- Supersensitivity, in isolated cat spleen, 254
- of the guinea-pig ileum, effects of chronic ganglion blockade, 277
- Sympathetic nerve trunk, cervical, histochemistry and anatomy, 213
- Sympathomimetic effects, of halogenated phenyl- $\beta$ -haloethylamines, 38
- Szerb, J. C., *see* McKenzie, G. M., 302
- Temperature, and alteration in receptor activity of rat fundal strip, 21
- Thoenen, H., Haefely, W., Haeusler, G. and Huerlimann, A., 70
- Thompson, A. K., *see* Martin, W. R., 182
- Tryptamines, phenoxybenzamine antagonism of, in rat stomach fundus, 286
- Tyramine, blood pressure responses to, affected by angiotensin, cocaine and desipramine, 85
- effects on isolated nictitating membrane, 263
- Tyrosine- $C^{14}$ , formation of catecholamines in brain, effect of chlorpromazine, 294
- Urine, influence of volume output on absorption, metabolism and excretion of ephedrines in man, 139
- Vascular studies, of the antihypertensive effect of diazoxide, 109
- Vesell, E. S., *see* Fraser, I. M., 155
- Warfarin, stimulatory effect of phenobarbital and insecticides on metabolism in the rat, 338
- Westfall, T. C., 239
- Whalen, R. E., *see* Zeft, H. J., 80
- Wilkinson, G. R. and Beckett, A. H., 139
- Winter, C. A., Risley, E. A. and Silber, R. H., 196
- Winter, J. C. and Gessner, P. K., 286
- Wohl, A. J., Hausler, L. M. and Roth, F. E., 109
- Wong, L. C. K. and DiStefano, V., 344
- Woodbury, R. A., *see* Garner, G. E., 38
- Woodward, J. K., *see* Jacobowitz, D., 213
- Zeft, H. J., Whalen, R. E., Ratliff, N. B., Jr., Davenport, R. D., Jr. and McIntosh, H. D., 80