

INDEX TO VOLUME 79

AUTHOR INDEX

A

- ABRAMOVICH, D.R., PAGE, K.R. & WRIGHT, F. Effect of angiotensin II and 5-hydroxytryptamine on the vessels of the human foetal cotyledon, 53
- ACETO, M.D., AWAYA, H., MARTIN, B.R. & MAY, E.L. Antinociceptive action of nicotine and its methiodide derivatives in mice and rats, 869
- ADAMS, P.R., BROWN, D.A. & JONES, S.W. Substance P inhibits the M-current in bullfrog sympathetic neurones, 330
- AINZ, L.F., CASIS, E., DE GANDARIAS, J.M., GIL-RODRIGO, C.E. & GOIRIENA DE GANDARIAS, J.J. H₁-Histamine receptors may mediate the contractile response of guinea-pig ileum to 'histamine-free' splenic extracts, 373
- AKPAFFIONG, M.J., REDFERN, P.H., WOODWARD, B. An investigation of the importance of the adrenal gland to the action of dopamine in the rat kidney, 103
- ALLEN, M.C. The effect of choline mustard on the rat superior cervical ganglia, 489
- ANDERSSON, K.-E., EDVINSSON, L., MACKENZIE, E.T., SKÄRBY, T. & YOUNG, A.R. Influence of extracellular calcium and calcium antagonists on contractions induced by potassium and prostaglandin F_{2α} in isolated cerebral and mesenteric arteries of the cat, 135
- ANGEL, A., HALSEY, M.J. & WARDLEY-SMITH, B. Interaction of γ -aminobutyric acid and noradrenaline in the high pressure neurological syndrome, 725
- ANIS, N.A., BERRY, S.C., BURTON, N.R. & LODGE, D. The dissociative anaesthetics, ketamine and phencyclidine, selectively reduce excitation of ventral mammalian neurones by N-methyl-aspartate, 565
- ARMSTRONG, R.A., JONES, R.L. & WILSON, N.H. Ligand binding to thromboxane receptors on human platelets: correlation with biological activity, 953
- ASHFORD, M.L.J. & WANN, K.T. Extracellular chloride replacement by isethionate induce abnormal spontaneous release of transmitter at the frog neuromuscular junction, 201
- ASHKENAZI, R., FINBERG, J.P.M. & YODIM, M.B.H. Behavioural hyperactivity in rats treated with selective monoamine oxidase inhibitors and LM 5008, a selective 5-hydroxytryptamine uptake blocker, 765
- ASHKENAZI, R., FINBERG, J.P.M. & YODIM, M.B.H. Effect of LM 5008, a selective inhibitor of 5-hydroxytryptamine uptake, on blood pressure and responses to sympathomimetic amines, 915
- ARVIDSSON, S., FALK, A., HAGLIND, E. & HAGLUND, U. The role of 5-hydroxytryptamine in the feline response to intravenous infusion of live *E. coli*, 711
- AU, T.L.S., COLLINS, G.A., MACLEOD, B.A. & WALKER, M.J.A. Effects of prostaglandin E₂, prop-

- ranolol and nitroglycerine with halothane, pethidine or pentobarbitone anaesthesia on arrhythmias and other responses to ligation of a coronary artery in rats, 929
- AWAYA, H. *see* ACETO, M.D., 869

B

- BAKHLE, Y.S. & CHELLIAH, R. Metabolism and uptake of adenosine in rat isolated lung and its inhibition, 509
- BEANI, L., BIANCHI, C., SINISCALCHI, A. & TANGANELLI, S. Glycine-induced changes in acetylcholine release from guinea-pig brain slices, 623
- BENTLEY, G.A., NEWTON, S.H. & STARR, J. Studies on the antinociceptive action of α -agonist drugs and their interactions with opioid mechanisms, 125
- BERRY, S.C. *see* ANIS, N.A., 565
- BIANCHI, L. *see* BEANI, L., 623
- BILL, D.J., HARTLEY, J.E., STEPHENS, R.J. & THOMPSON, A.M. The antinociceptive activity of meptazinol depends on both opiate and cholinergic mechanisms, 191
- BLACKWELL, G.J. Specificity and inhibition of glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- BLOOM, S.R., PEART, W.S. & UNWIN, R.J. Neurotensin and antinatriuresis in the conscious rabbit, 15
- BONGRANI, S., FOLCO, G.C., RAZZETTI, R. & SCHIANTARELLI, P. β_2 -Adrenoceptor blockade is the basis of guinea-pig bronchial hyper-responsiveness to leukotriene C₄ and other agonists, 839
- BORN, G.V.R. & HOUSLEY, G.M. Effects of modification of the membranes of intact erythrocytes on the anti-haemolytic action of chlorpromazine, 481
- BOSCHI, G., DESILES, M., RENY, V., RIPS, R. & WRIGGLESWORTH, S. Antinociceptive properties of thyrotropin releasing hormone in mice: comparison with morphine, 85
- BOTTING, J.H., JOHNSTON, K.M., MACLEOD, B.A. & WALKER, M.J.A. The effect of modification of sympathetic activity on responses to ligation of a coronary artery in the conscious rat, 265
- BOWMER, C.J., NICHOLS, A.J., WARREN, M. & YATES, M.S. Cardiovascular responses in rats with glycerol-induced acute renal failure, 471
- BRAMMER, J.P., MAGUIRE, M.H., WALASZEK, E.J. & WILEY, R.A. Acetal phosphatic acids: novel platelet aggregating agents, 157
- BROADLEY, K.J. & WILLIAMS, R.G. Temperature-induced changes in dissociation constants (K_A) of agonists at cardiac β -adrenoceptors determined by use of the irreversible antagonist Ro 03-7894, 517

- BROWN, D.A. *see* ADAMS, P.R., 330
 BROWN, D.A. & DUNN, P.M. Cyclic adenosine 3',5'-monophosphate and β -effects in rat isolated superior cervical ganglia, 441
 —, Depolarization of rat isolated superior cervical ganglia mediated by β_2 -adrenoceptors, 429
 BROWN, D.A., DOCHERTY, J.R., FRENCH, A.M., MACDONALD, A., McGRATH, J.C. & SCOTT, N.C. Separation of adrenergic and non-adrenergic contractions to field stimulation in the rat vas deferens, 379
 BURNSTOCK, G. & MEGHJI, P. The effect of adenylyl compounds on the rat heart, 211
 BURNSTOCK, G., CUSACK, N., HILLS, J., MACKENZIE, I. & MEGHJI, P. Studies on the stereoselectivity of the P_2 -purinoceptor, 907
 BURTON, N.R. *see* ANIS, N.A., 565

C

- CAMPBELL, C.A. & PARRATT, J.R. The effect of β -adrenoceptor blocking agents, with differing ancillary properties, on the arrhythmias resulting from acute coronary artery ligation in anaesthetized rats, 939
 CARSWELL, H. & NAHORSKI, S.R. β -Adrenoceptor heterogeneity in guinea-pig airways: comparison of functional and receptor labelling studies, 965
 CASIS, E. *see* AINZ, L.F., 373
 CERVO, L., ROMANDINI, S. & SAMANIN, R. Evidence that 5-hydroxytryptamine in the forebrain is involved in naloxone-precipitated jumping in morphine-dependent rats, 993
 CERVONI, P., HERZLINGER, H.E., LAI, F.M. & TANIKELLA, T.K. Aortic vascular and atrial responses to (\pm)-1-O-octadecyl-2-acetyl-glycerol-3-phosphorylcholine, 667
 CHANG, C.C., HONG, S.J. & SU, M.J. A study on the membrane depolarization of skeletal muscles caused by a scorpion toxin, sea anemone toxin II and crotonamine and the interaction between toxins, 673
 CHELLIAH, R. *see* BAKHLE, Y.S., 509
 CHIN, W-P., IMAI, S., NAKANO, U., TAKEDA, K., TAMATSU, H. & USHIJIMA, T. Effects of drugs on the cerebral circulation of the dog in relation to the cerebral oxygen consumption, 897
 CLARK, S.L., EDESON, R.O. & RYALL, R.W. The relative significance of spinal and supraspinal actions in the antinociceptive effect of morphine in the dorsal horn: an evaluation of the microinjection technique, 807
 CLOIX, J.F., COLARD, O., ROTHHUT, B. & RUSSO-MARIE, F. Characterization and partial purification of 'renocortins': two polypeptides formed in renal cells causing the anti-phospholipase-like action of glucocorticoids, 313
 COLARD, O. *see* CLOIX, J.F., 313
 COLLINGE, J., PYCOCK, C.J. & TABERNER, P.V. Studies on the interaction between cerebral 5-hydroxytryptamine and γ -aminobutyric acid in the mode of action of diazepam in the rat, 637
 COLLINS, G.A. *see* AU, T.L.S., 929
 CONFORTI, A., FRANCO, L., MILANINO, R., TORIZZO, A. & VELO, G.P. Copper metabolism

- during acute inflammation: studies on liver and serum copper concentrations in normal and inflamed rats, 45
 COX, H.M., MUNDAY, K.A. & POAT, J.A. The binding of [125 I]-angiotensin to rat renal epithelial cell membranes, 63
 CSIK, V., SZEKERES, L. & UDVARY, E. Comparison of two calcium antagonists, verapamil and fendiline, in an experimental model of myocardial ischaemia mimicking classical angina on effort, 37
 CURTIS, D.R., LEAH, J.D. & PEET, M.J. Spinal interneurone depression by DS103-282, 9
 CUSACK, N. *see* BURNSTOCK, G., 907
 CUTHBERT, A.W. & SPAYNE, J.A. Conversion of sodium channels to a form sensitive to cyclic AMP by component(s) from red cells, 783

D

- DART, A.M., DIETZ, R., KÜBLER, W., SCHÖMIG, A. & STRASSER, R. Effects of cocaine and desipramine on the neurally evoked overflow of endogenous noradrenaline from the rat heart, 71
 DAVISON, J.S., GREENWOOD, B., NAJAFI-FARASHAH, A. & READ, N.W. The effects of atropine and secovrine on gastric secretion and motility in mouse isolated stomach, 525
 DE GANDARIAS, J.M. *see* AINZ, L.F., 373
 DE WILDT, D.J., HILLEN, F.C., RAUWS, A.G. & SANGSTER, B. Etomidate-anaesthesia, with and without fentanyl, compared with urethane-anaesthesia in the rat, 461
 DESILES, M. *see* BOSCHI, G., 85
 DEVANE, J. & RYAN, M.P. Evidence for a magnesium-sparing action by amiloride during renal clearance studies in rats, 891
 DIETZ, R. *see* DART, A.M., 71
 DIGGES, K.G. & SUMMERS, R.J. Characterization of postsynaptic α -adrenoceptors in rat aortic strips and portal veins, 655
 DIXON, J.S. & SMALL, R.C. Evidence of poor conduction of muscle excitation in the longitudinal axis of guinea-pig isolated trachea, 75
 DOCHERTY, J.R. *see* BROWN, D.A., 379
 DONNERER, J. & LEMBECK, F. Heat loss reaction to capsaicin through a peripheral site of action, 719
 DOWNIE, J.W. & SLACK, B.E. Sensitivity to indomethacin of smooth muscle from the base of rabbit bladder, 334
 DUNN, P.M. *see* BROWN, D.A., 429; 441

E

- EDESON, R.O. *see* CLARK, S.L., 807
 EDVINSSON, L. *see* ANDERSSON, K.-E., 135
 EDVINSSON, L., JOHANSSON, B.B., LARSON, B., MACKENZIE, E.T., SKÄRBY, T. & YOUNG, A.R. Calcium antagonists: effect on cerebral blood flow and blood-brain barrier permeability in the rat, 141

ENNIS, C. Different α -adrenoceptors modulate the release of 5-hydroxytryptamine and noradrenaline in rat cortex, 279

F

- FADEN, A.I. & FEUERSTEIN, G. Hypothalamic regulation of the cardiovascular and respiratory system: role of specific opiate receptors, 997
- FAHR, A., FORSTER, W. & TAUBE, Ch. Blood pressure changes in spontaneously hypertensive rats correlate with aortic prostacyclin formation, 19
- FALK, A. *see* ARVIDSSON, S., 711
- FEUERSTEIN, G. *see* FADEN, A.I., 997
- FILE, S.E. Sedative effects of PK 9084 and PK 8165, alone and in combination with chlordiazepoxide, 219
- FINBERG, J.P.M. *see* ASHKENAZI, R., 765; 915
- FOLCO, G.C. *see* BONGRANI, S., 839
- FORSTER, W. *see* FAHR, A., 19
- FORTES, Z.B., GARCIA LEME, J. & SCIVOLETTO, R. Vascular reactivity in diabetes mellitus: role of the endothelial cell, 771
- FOSTER, H., HOOPER, M., IMAM, S.H., LOVETT, G.S., NICHOLSON, J., SWAIN, C.J., SWEETMAN, A.J. & WEETMAN, D.F. Increased inhibitory action against adenosine 5'-triphosphate in the isolated taenia of the guinea-pig caecum by substitution in the A-ring of 2-phenylisatogen, 273
- FOSTER, R.W., SMALL, R.C. & WESTON, A.H. Evidence that the spasmogenic action of tetraethylammonium is both direct and dependent on the cellular influx of calcium ion, 255
- FRANCO, L. *see* CONFORTI, A., 45
- FRENCH, A.M. *see* BROWN, D.A., 379
- FUDER, H., MUSCHOLL, E. & SPERMANN, R. The determination of presynaptic pA_2 values of yohimbine and phentolamine on the perfused rat heart under conditions of negligible autoinhibition, 109
- FUJIWARA, S. & KURIYAMA, H. Effects of agents that modulate potassium permeability on smooth muscle cells of guinea-pig basilar artery, 23

G

- GARCIA LEME, J. *see* FORTES, Z.B., 771
- GERBER, J.G. & NIES, A.S. The role of histamine receptors in the release of renin, 57
- GIBSON, A. & YU, O. Biphasic non-adrenergic, non-cholinergic relaxations of the mouse anococcygeus muscle, 611
- GIL-RODRIGO, C.E. *see* AINZ, L.F., 373
- GILFILLAN, A.M., HOLLINGSWORTH, M. & JONES, A.W. The pharmacological modulation of 3H -disaturated phosphatidylcholine overflow from perfused lung slices of adult rats: a new method for the study of lung surfactant secretion, 363
- GIOTTI, A., LUZZI, S., SPAGNESI, S. & ZILLETI, L. Homotaurine: a GABA $_B$ antagonist in guinea-pig ileum, 855

- GODFRAIND, T. & MILLER, R.C. Effects of histamine and the histamine antagonists mepyramine and cimetidine on human coronary arteries *in vitro*, 979
- GODIN, D.V. & TUCHEK, J.M. Plasma acid phosphatase levels in endotoxaemia: modification by drugs and chemically detoxified endotoxins, 421
- GOIRIENA DE GANDARIAS, J.J. *see* AINZ, L.F., 373
- GOLDIE, R.G., PATERSON, J.W. & WALE, J.L. Classification of β -adrenoceptors in isolated bronchus of the pig, 177
- GORDON, J.L. & MARTIN, W. Endothelium-dependent relaxation of the pig aorta: relationship to stimulation of ^{86}Rb efflux from isolated endothelial cells, 531
- GREENWOOD, B. *see* DAVISON, J.S., 525
- GRIFFITHS, N., LAMB, J.F. & OGDEN, P. The effects of chloroquine and other weak bases on the accumulation and efflux of digoxin and ouabain in HeLa cells, 869
- GRIFFITHS, R.J. & MOORE, P.K. Formation of 6-keto prostaglandin E_1 in mammalian kidneys, 149

H

- HAGLIND, E. *see* ARVIDSSON, S., 711
- HAGLUND, U. *see* ARVIDSSON, S., 711
- HALL, M.D., JENNER, P., KELLY, E. & MARSDEN, C.D. Differential anatomical location of [3H]-N-propyl-norapomorphine and [3H]-spiperone binding sites in the striatum and substantia nigra of the rat, 599
- HALL, M.M. Prostaglandin synthesis inhibitors: effect on angiotensin II- and oxytocin-induced contractions in rat uterine smooth muscle, 121
- HALSEY, M.J. *see* ANGEL, A., 725
- HARTLEY, J.E. *see* BILL, D.J., 191
- HARTLEY, M.L., PENNEFATHER, J.N. & STORY, M.E. Effects of ovarian steroids upon response mediated by adrenoceptors in separated layers of the myometrium and in the costo-uterine muscle of the guinea-pig, 93
- HASHIMOTO, H., NAKASHIMA, M. & SUGINO, N. Age-dependent differences in the positive inotropic effect of phenylephrine on rat isolated atria, 499
- HAY, D.W.P. & WADSWORTH, R.M. The effects of calcium channel inhibitors and other procedures affecting calcium translocation on drug-induced rhythmic contractions in the rat vas deferens, 347
- HAYES, A.G. & TYERS, M.B. Determination of receptors that mediate opiate side effects in the mouse, 731
- HERZLINGER, H.E. *see* CERVONI, P., 667
- HIGGS, G.A., MONCADA, S., SALMON, J.A. & SEAGER, K. The source of thromboxane and prostaglandins in experimental inflammation, 863
- HILLEN, F.C. *see* DE WILDT, D.J., 461
- HILLS, J. *see* BURNSTOCK, G., 907
- HOLLINGSWORTH, M. *see* GILFILLAN, A.M., 363
- HONG, S.J. *see* CHANG, C.C., 673
- HOOPER, M. *see* FOSTER, H., 273
- HOPKINS, S.J., JAYSON, M.I.V. & VAN DER ZEIL, P. Inhibition of lymphocyte activation by gold sodium thiomalate, 617
- HOUSLEY, G.M. *see* BORN, G.V.R., 481

I

- IMAI, S. *see* CHIN, W.-P., 897
 IMAM, S.H. *see* FOSTER, H., 273
 ISHAC, E.J.N. & PENNEFATHER, J.N. The effects of altered thyroid state upon responses mediated by atrial muscarinic receptors in the rat, 451
 ISHIKAWA, S., ITO, Y., ITOH, T., KANMURA, Y., KURIYAMA, H. & MAKITA, Y. Action of isosorbide dinitrate on smooth muscle cells of rabbit tissues, 737
 ITO, Y. *see* ISHIKAWA, S., 737
 ITOH, T. *see* ISHIKAWA, S., 737

J

- JANSSENS, W. & VERHAEGHE, R. Modulation of the concentration of noradrenaline at the neuro-effector junction in human saphenous vein, 577
 JAYSON, M.I.V. *see* HOPKINS, S.J., 617
 JENNER, P. *see* HALL, M.D., 599
 JOHANSSON, B.B. *see* EDVINSSON, L., 141
 JOHNSTON, K.M. *see* BOTTING, J.H., 265
 JONES, A.W. *see* GILFILLAN, A.M., 363
 JONES, R.L. *see* ARMSTRONG, R.A., 953
 JONES, S.W. *see* ADAMS, P.R., 330

K

- KALSNER, S. Yohimbine and prolongation of stimulation pulse duration alter similarly [3 H]-transmitter efflux in heart: an alternative to the negative feedback hypothesis, 985
 KANAMURA, Y. *see* ISHIKAWA, S., 737
 KARLSSON, J.-A. & PERSSON, C.G.A. Evidence against vasoactive intestinal polypeptide (VIP) as a dilator and in favour of substance P as a constrictor in airway neurogenic responses, 634
 KELLY, E. *see* HALL, M.D., 599
 KERRY, R. & SCRUTTON, M.C. Effect of 781094, a new selective α -adrenoceptor antagonist, on the aggregatory responses of human blood platelets and on binding of [3 H]-dihydroergocryptine to the cells, 401
 —, Platelet β -adrenoceptors, 681
 KIRPEKAR, S.M., NOBILETTI, J. & TRIFARO, J.M. Effect of 6-hydroxydopamine on bovine adrenal chromaffin cells in culture, 947
 KOLTAI, M., LEPRÁN, L., NEMECZ, Gy. & SZEKERES, L. The possible mechanism of protection induced by dexamethasone against sudden death due to coronary ligation in conscious rats, 327
 KOU, K. & SUZUKI, H. The effects of 3,4-dihydro-8-(2-hydroxy-3-isopropylaminepropoxy)-3-nitroxy-2H-1-benzopyran (K-351) and its denitrated derivative on smooth muscle cells of the dog coronary artery, 285
 KUBLER, W. *see* DART, A.M., 71
 KUMAR, R., PRATT, J.A. & STOLERMAN, I.P. Characteristics of conditioned taste aversion produced by nicotine in rats, 245
 KURIYAMA, H. *see* FUJIWARA, S., 23; 737

L

- LAI, F.M. *see* CERVONI, P., 667
 LAMB, J.F. *see* GRIFFITHS, N., 869
 LANGER, J., PANTEN, U. & ZIELMANN, S. Effects of α -adrenoceptor antagonists on clonidine-induced inhibition of insulin secretion by isolated pancreatic islets, 415
 LARGE, W.A. Membrane potential responses to iontophoretically applied α -adrenoceptor agonists in mouse anococcygeus muscle, 233
 LARSON, B. *see* EDVINSSON, L., 141
 LEAH, J.D. *see* CURTIS, D.R., 9
 LEMBECK, F. *see* DONNERER, J., 719
 LEPRAN, L. *see* KOLTAI, M., 327
 LODGE, D. *see* ANIS, N.A., 565
 LOVETT, G.S. *see* FOSTER, H., 273
 LÜLLMANN, H., NIEHUS, U., PULSS, W. & RAVENS, U. Electrophysiological studies of some semi-synthetic cardiac glycoside derivatives in isolated papillary muscle of the guinea-pig, 755
 LÜTHY, C., MULTHAUPT, M., OETLIKER, O. & PERISIC, M. Differential effect of acetylsalicylic acid and dipyron on prostaglandin production in human fibroblast, 849
 LUZZI, S. *see* GIOTTO, A., 855

M

- MACDONALD, A. *see* BROWN, D.A., 379
 MCGRATH, J.C. *see* BROWN, D.A., 379
 MACKENZIE, E.T. *see* ANDERSSON, K.-E., 135
 —, *see* EDVINSSON, L., 141
 MACKENZIE, I. *see* BURNSTOCK, G., 907
 MACLEOD, B.A. *see* AU, T.L.S., 929
 —, *see* BOTTING, J.H., 265
 MAEDA-HAGIWARA, M. & WATANABE, K. Influence of dopamine receptor agonists on gastric acid secretion induced by intraventricular administration of thyrotropin-releasing hormone in the perfused stomach of anaesthetized rats, 297
 MAGUIRE, M.H. *see* BRAMMER, J.P., 157
 MAKITA, Y. *see* ISHIKAWA, S., 737
 MANZANARES, J. & TAMARGO, J. Electrophysiological effects of imipramine in non-treated and in imipramine-pretreated rat atrial fibres, 167
 MARSDEN, C.D. *see* HALL, M.D., 599
 MARTIN, B.R. *see* ACETO, M.R., 869
 MARTIN, W. *see* GORDON, J.L., 531
 MAY, E.L. *see* ACETO, M.R., 869
 MEGHJI, P. *see* BURNSTOCK, G., 211; 907
 MILANINO, R. *see* CONFORTI, A., 45
 MILLAR, J.S. & VAUGHAN WILLIAMS, E.M. Pharmacological mapping of regional effects in the rabbit heart of some new antiarrhythmic drugs, 701
 MILLER, R.C. *see* GODFRAIND, T., 979
 MONCADA, S. *see* HIGGS, G.A., 863
 MOORE, P.K. *see* GRIFFITHS, R.J., 149
 MORGAN, P.F. & STONE, T.W. Structure-activity studies on the potentiation of benzodiazepine receptor binding by ethylenediamine analogues and derivatives, 973

- MULTHAUPT, M. *see* LÜTHY, C., 849
MUNDAY, K.A. *see* COX, H.M., 63
MUSCHOLL, E. *see* FUDER, H. 109
MYERS, A., RAMEY, E. & RAMWELL, P. Glucocorticoid protection against PAF-acether toxicity in mice, 593

N

- NAHORSKI, S.R. *see* CARSWELL, H., 965
NAJAFI-FARASHAH, A. *see* DAVISON, J.S., 525
NAKANO, U. *see* CHIN, W-P., 897
NAKASHIMA, M. *see* HASHIMOTO, H., 499
NASU, T. Spasmolytic effect of cadmium and cadmium uptake in aorta, 751
NEMECZ, Gy. *see* KOLTAI, M., 327
NEWMAN, R.J. & RADDA, G.K. The myotoxicity of bupivacaine, a ³¹Pn.m.r. investigation, 395
NEWTON, S.H. *see* BENTLEY, G.A., 125
NEY, U.M. Propranolol-induced airway hyperreactivity in guinea-pigs, 1003
NGUYEN, B.T. & STADTSBAEDER, S. Comparative effects of cotrimoxazole (trimethoprim-sulphamethoxazole), pyrimethamine-sulphadiazine and spiramycin during a virulent infection with *Toxoplasma gondii* (Beverly strain) in mice, 923
NICHOLS, A.J. *see* BOWMER, C.J., 471
NICHOLSON, J. *see* FOSTER, H., 273
NIEHUS, U. *see* LÜLLMAN, H., 755
NIES, A.S. *see* GERBER, J.G., 57
NISHI, K. & OYAMA, Y. Accelerating effects of pentobarbitone on the inactivation process of the calcium current in *Helix* neurones, 645
NOBILETTI, J. *see* KIRPEKAR, S.M., 947

O

- OETLIKER, O. *see* LÜTHY, C., 849
OGDEN, P. *see* GRIFFITHS, N., 877
OHIZUMI, Y. & YASUMOTO, T. Contraction and increase in tissue calcium content induced by maitotoxin, the most potent known marine toxin, in intestinal muscle, 3
OYAMA, Y. *see* NISHI, K., 645

P

- PACIOREK, P.M. & SHEPPERSON, N.B. α_1 -Adrenoceptor agonist activity of α_2 -adrenoceptor antagonists in pithed rat preparation, 12
PAGE, K.R. *see* ABRAMOVICH, D.R., 53
PANTEN, U. *see* LANGER, J., 415
PARRATT, J.R. *see* CAMPBELL, C.A., 939
PATERSON, J.W. *see* GOLDIE, R.G., 177
PEART, W.S. *see* BLOOM, S.R., 15
PEET, M.J. *see* CURTIS, D.R., 9
PENNEFATHER, J.N. *see* HARTLEY, M.L., 93
—, *see* ISHAC, E.J.N., 451
PERISIC, M. *see* LÜTHY, C., 849

- PERSSON, C.G.A. *see* KARLSSON, J.-A., 634
POAT, J.A. *see* COX, J.M., 63
POOLE, S. Cardiovascular response of rats to intrahypothalamic injection of carbachol and noradrenaline, 693
PRATT, J.A. *see* KUMAR, R., 245
PULSS, W. *see* LÜLLMANN, H., 755
PYCOCK, C.J. *see* COLLINGE, J., 637

R

- RADDA, G.K. *see* NEWMAN, R.J., 395
RAM, J.L. Forskolin activation of an identified peptide-sensitive motoneurone in *Aplysia*, 631
RAMEY, E. *see* MYERS, A., 593
RAMWELL, P. *see* MYERS, A., 593
RAUWS, A.G. *see* DE WILDT, D.J., 461
RAVENS, U. *see* LÜLLMANN, H., 755
RAZZETTI, R. *see* BONGRANI, S. 839
READ, N.W. *see* DAVISON, J.S., 525
REDFERN, P.H. *see* AKPAFFIONG, M.J., 103
RENY, V. *see* BOSCHI, G., 85
RICHARDS, C.D., SNELL, C.R. & SNELL, P.H. Nicotinamide adenine dinucleotide depresses synaptic transmission in the hippocampus and has specific binding sites on the synaptic membranes, 553
RIPS, R. *see* BOSCHI, G., 85
ROHOZKOVA, D. & STEVEN, F.S. Gold-containing drugs and the control of proteolytic enzymes, 187
ROMANDINI, S. *see* CERVO, L., 993
ROTHHUT, B. *see* CLOIX, J.F., 313
RUSSO-MARIE, F. *see* CLOIX, J.F., 313
RYALL, R.W. *see* CLARK, S.L., 807
RYAN, M.P. *see* DEVANE, J., 891

S

- SALMON, J.A. *see* HIGGS, G.A., 863
SAMANIN, R. *see* CERVO, L., 993
SANGSTER, B. *see* DE WILDT, D.J., 461
SCHIANTARELLI, P. *see* BONGRANI, S., 839
SCHÖMIG, A. *see* DART, A.M., 71
SCHWARTZ, J. & VELLY, J. The α -adrenoceptor of pig coronary arteries: determination of β_1 and β_2 subtypes by radioligand binding, 409
SCIVOLETTO, R. *see* FORTES, Z.B., 771
SCOTT, N.C. *see* BROWN, D.A., 379
SCRUTTON, M.C. *see* KERRY, R., 401; 681
SEAGER, K. *see* HIGGS, G.A., 863
SHEPPERSON, N.B. *see* PACIOREK, P.M., 12
SIMMONDS, M.A. Depolarizing responses to glycine, β -alanine and muscimol in isolated optic nerve and cuneate nucleus, 799
SINISCALCHI, A. *see* BEANI, L., 623
SKÄRBY, T. *see* ANDERSSON, K.-E., 135
SKÄRBY, T. *see* EDVINSSON, L., 141
SLACK, B.E. *see* DOWNIE, J.W., 334
SMALL, R.C. *see* DIXON, J.S., 75
—, *see* FOSTER, R.W., 255

- SNELL, C.R. *see* RICHARDS, C.D., 553
 SNELL, P.H. *see* RICHARDS, C.D., 553
 SPAGNESI, S. *see* GIOTTO, A., 855
 SPAYNE, J.A. *see* CUTHBERT, A.W., 783
 SPEDDING, M. Direct inhibitory effects of some 'calcium-antagonists' and trifluoperazine on the contractile proteins in smooth muscle, 225
 SPERMANN, R. *see* FUDER, H., 109
 STADTSBAEDER, S. *see* NGUYEN, B.T., 923
 STARR, J. *see* BENTLEY, G.A., 125
 STEPHENS, R.J. *see* BILL, D.J., 191
 STEVEN, F.S. *see* ROHZKOVA, D., 187
 STOLERMAN, I.P. *see* KUMAR, R., 245
 STONE, T.W. A comparison of the effects of morphine, enkephalin, kyotorphin and D-phenylalanine on rat central neurones, 305
 STONE, T.W. *see* MORGAN, P.F., 973
 STORY, M.E. *see* HARTLEY, M.L., 93
 STRASSER, R. *see* DART, A.M., 71
 SU, M.J. *see* CHANG, C.C., 673
 SUGINO, N. *see* HASHIMOTO, H., 499
 SUMMERS, R.J. *see* DIGGES, K.G., 655
 SUZUKI, H. *see* KOU, K., 285
 SWAIN, C.J. *see* FOSTER, H., 273
 SWEETMAN, A.J. *see* FOSTER, H., 273
 SZEKERES, L. *see* CSIK, V., 37
 —, *see* KOLTAI, M., 327
 SZÉKÉRES, L. & UDVÁRY, E. Haemodynamic factors influencing myocardial ischaemia in a canine model of coronary artery stenosis: the effects of nitroglycerine, 337

T

- TABERNER, P.V. *see* COLLINGE, J., 637
 TAKEDA, K. *see* CHIN, W-P., 897
 TAMARGO, J. *see* MANZANARES, J., 167
 TAMATSU, H. *see* CHIN, W-P., 897
 TANGANELLI, S. *see* BEANI, L., 623
 TANIKELLA, T.K. *see* CERVONI, P., 667
 TAUBE, Ch. *see* FAHR, A., 19
 THOMPSON, A.M. *see* BILL, D.J., 191
 TOTORIZZO, A. *see* CONFORTI, A., 45
 TRIFARO, J.M. *see* KIRPEKAR, S.M., 947
 TUCHEK, J.M. *see* GODIN, D.V., 421
 TYERS, M.B. *see* HAYES, A.G., 731

U

- UDVÁRY, E. *see* CSIK, V., 37
 —, *see* SZEKERES, L., 337
 UNWIN, R.J. *see* BLOOM, S.R., 15
 USHIJIMA, T. *see* CHIN, W-P., 897

V

- VAN DER ZEIL, P. *see* HOPKINS, S.J., 617
 VANE, J.R. Adventures and excursions in bioassay: the stepping stones to prostacyclin, 821
 VAUGHAN WILLIAMS, E.M. *see* MILLAR, J.S., 701
 VELLY, J. *see* SCHWARTZ, J., 409
 VELO, G.P. *see* CONFORTI, A., 45
 VERDOUW, P.D. & WOLFFENBUTTEL, B.H.R. The effect of felodipine on ventricular fibrillation after coronary artery ligation in the anaesthetized pig, 6
 VERHAEGHE, R. *see* JANSSENS, W., 577

W

- WARDLEY-SMITH, B. *see* ANGEL, A., 725
 WADSWORTH, R.M. *see* HAY, D.W.P.
 WALASZEK, E.J. *see* BRAMMER, J.P., 157
 WALE, J.L. *see* GOLDIE, R.G., 177
 WALKER, M.J.A. *see* AU, T.L.S., 929
 —, *see* BOTTING, J.H., 265
 WANN, K.T. *see* ASHFORD, M.L.J., 201
 WARREN, M. *see* BOWMER, C.J., 471
 WATANABE, K. *see* MAEDA-HAGIWARA, M., 297
 WATSON, S.P. Rapid degradation of [³H]-substance P in guinea-pig ileum and rat vas deferens *in vitro*, 543
 WEETMAN, D.F. *see* FOSTER, 273
 WIGGLESWORTH, S. *see* BOSCHI, G., 85
 WILEY, R.A. *see* BRAMMER, J.P., 157
 WILLIAMS, R.G. *see* BROADLEY, K.J., 517
 WILSON, N.H. *see* JONES, R.L., 953
 WOLFFENBUTTEL, B.H.R. *see* VERDOUW, P.D., 6
 WOODWARD, B. *see* AKPAFFIONG, M.J., 103
 WRIGHT, F. *see* ABRAMOVICH, D.R., 53

Y

- YASUMOTO, T. *see* OHIZUMI, Y., 3
 YATES, M.S. *see* BOWMER, C.J., 471
 YODIM, M.B.H. *In vivo*, noradrenaline is a substrate for rat brain monoamine oxidase A and B, 477
 —, *see* ASHKENAZI, R., 765
 —, *see* ASHKENAZI, R., 915
 YOUNG, A.R. *see* ANDERSSON, K.-E., 135
 —, *see* EDVINSSON, L., 141
 YU, O. *see* GIBSON, A., 611

Z

- ZIELMANN, S. *see* LANGER, J., 415
 ZILLETI, L. *see* GIOTTO, A., 855

SUBJECT INDEX

A

- A23187**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- , relaxation of histamine-contracted pig aortic strips when the endothelium was present, 531
- Acetal phosphatidic acids**, novel platelet aggregating agents, 157
- Acetazolamide**, effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
- Acetylcholine**, effect of glycine on release from guinea-pig brain slices, 623
- , effect on constrictor response to noradrenaline in normal and diabetic rats, 771
- , effect on smooth muscle cells of guinea-pig basilar artery, 23
- , excitation of central mammalian neurones, effect of dissociative anaesthetics, 565
- , induction of bronchospasm, effect of β -adrenoceptor agonists in guinea-pig, 839
- , induction of relaxation of histamine-contracted strips of pig aorta, 531
- [³H]-acetylcholine**, effect of isoprenaline on amount released by preganglionic stimulation in low calcium/high magnesium solution, 429
- , inhibition of synthesis in rat superior cervical ganglia by hemicholinium-3 and choline mustard, 489
- Acetylsalicylic acid**, effect on prostaglandin production in human fibroblast cultures, 849
- Acid-base balance**, effect of amiloride in rats, 891
- Acid phosphatase**, plasma levels in endotoxaemia, modification by drugs and chemically detoxified endotoxins, 421
- Aconitine**, induction of abnormal automaticity in rat atrial fibres, effects of imipramine, 167
- Actinomycin D**, effect of pretreatment in rats with coronary occlusion, mechanism of protective action of dexamethasone, 327
- , effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- Action potentials**, effect of semisynthetic glycoside derivatives in isolated papillary muscle of guinea-pig, 755
- , effect of sympathomimetic amines in rat isolated superior cervical ganglia, 429
- , of rat diaphragm, effect of peptide toxins, 673
- Adenine**, effect on metabolism and uptake of adenosine in rat isolated lung, 509
- Adenosine**, effect on rat heart, 211
- , metabolism and uptake in rat isolated lung, 509
- Adenosine diphosphate**, effect on histamine-contracted strips of pig aorta, 531
- Adenosine 5'-diphosphate**, effect on rat heart, 211
- , stimulation of respiration in mitochondria, effect of isatogen derivatives, 273
- Adenosine monophosphate**, effect on histamine-contracted strips of pig aorta, 531
- Adenosine 3',5'-monophosphate**, cyclic, levels in rat isolated superior cervical ganglia, 441
- , cyclic, role in β_2 -adrenoceptor mediated inhibition of platelet response to excitatory agonists, 681
- , cyclic, test for mediation of peptide response of a neurone using forskolin in *Aplysia*, 631
- , dibutyl cyclic, effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- Adenosine 5'-monophosphate**, effect on rat heart, 211
- Adenosine 5'-pyrophosphate**, induction of aggregatory responses of human platelets, effect of RX 781094, 401
- Adenosine triphosphate**, effect of bupivacaine on intracellular concentrations in rats, 395
- , induction of relaxation of histamine-contracted strips of pig aorta, 531
- , inhibition of twitch response in guinea-pig ileum, effect of homotaurine, 855
- Adenosine 5'-triphosphate**, and its L-enantiomer, effect on guinea-pig taenia coli and urinary bladder and stimulated frog ventricle, 907
- , effect on [³H]-phosphatidylcholine overflow in perfused rat lung slices, 363
- , effect on rat heart, 211
- , inhibitory action in taenia of guinea-pig caecum, effect of isatogen derivatives, 273
- Adrenal gland**, importance to the action of dopamine in rat kidney, 103
- Adrenalectomy**, effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
- , effect on urine volume and sodium and chlorine excretion in rats, 103
- Adrenaline**, induction of aggregatory response of human platelets, effect of RX 781094, 401
- , induction of protein extravasation, effect of calcium antagonists in the rat, 141
- , production of depolarizations of rat isolated superior ganglia, 429
- , responses in rat aortic strips and portal veins, 655
- (–)-Adrenaline**, antinociceptive action and interactions

- with opioid mechanisms in mice, 125
- , induction of relaxation of pig bronchus preparations pre-contracted with carbachol, 177
- Adrenergic blockade**, effect on adrenergic and non-adrenergic contractions to field stimulation in rat vas deferens, 379
- α -Adrenoceptor agonists**, antinociceptive action and their interaction with opioid mechanisms in mice, 125
- , effect of iontophoretic application on membrane potential in mouse anococcygeus muscle, 233
- β -Adrenoceptor agonists**, inhibition of response of human platelet to various excitatory agonists, 681
- α -Adrenoceptor antagonists**, effect on clonidine-induced inhibition of insulin secretion by isolated pancreatic islets, 415
- α_2 -Adrenoceptor antagonists**, have α_1 -adrenoceptor agonist activity in pithed rat preparation, 12
- β -Adrenoceptor antagonists**, effect on arrhythmias resulting from coronary artery ligation in rats, 939
- , effect on isoprenaline-induced inhibition of platelet aggregation in rats and humans, 681
- β_2 -Adrenoceptor blockade**, basis of bronchial hyper-responsiveness to leukotriene C₄ and other agonists, 839
- Adrenoceptors**, mediation of responses in separated layers of the myometrium and in the costo-uterine muscle of the guinea-pig, 93
- α -Adrenoceptors**, characterization using agonists and antagonists in rat aortic strips and portal veins, 655
- , effect on aggregatory responses of human blood platelets and binding of [³H]-dihydroergocryptine, 401
- , involvement in age-dependent differences in positive inotropic effect of phenylephrine on rat isolated atria, 499
- , modulation of concentrations of noradrenaline at neuro-effector junction in human saphenous vein, 577
- , modulation of release of 5-hydroxytryptamine and noradrenaline in rat cortex, 279
- α_2 -Adrenoceptors**, confirmation of existence at adrenergic nerve fibres of rat heart *in vitro*, 109
- , mediation of adrenergic inhibition of insulin secretion in mouse isolated pancreatic islets, 415
- , role in antinociceptive action of sympathomimetic drugs in mice, 125
- β -Adrenoceptors**, classification in isolated pig bronchus, 177
- , distribution throughout guinea-pig airways, 965
- , investigation by use ¹²⁵I-iodocyanopindolol in pig coronary arteries, 409
- , location on human and rat platelets, 681
- , mediation of effects of phenylephrine in isolated rat atria, 499
- , role in antinociceptive action of sympathomimetic drugs in mice, 125
- , temperature-induced changes in dissociation constants of agonists at, in guinea-pig heart, 517
- β_2 -Adrenoceptors**, mediation of depolarization of rat isolated superior cervical ganglia, 429
- Adrenomedullectomy**, effect on responses of rat coronary artery to ligation, 267
- Age**, effect on the involvement of α -adrenoceptors in the positive inotropic effect of phenylephrine on rat isolated atria, 499
- AH 7921**, potency in producing antinociception and opiate side effects in mice, 731
- Airway hyper-reactivity**, propranolol-induced in guinea-pigs, 1003
- Airway hyper-responsiveness**, β -adrenoceptor antagonist-induced, correlation with β_2 -blocking activity in, 839
- Airway smooth muscle**, guinea-pig, role of vasoactive intestinal peptide and substance P in neurogenic responses, 634
- Airways**, guinea-pig, β -adrenoceptor heterogeneity, 965
- β -Alanine**, depolarizing responses in isolated rat optic nerve and cuneate nucleus, 799
- Aldosterone**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- , effect of amiloride on plasma concentrations, in rats, 891
- Alinidine**, pharmacological mapping of regional effects in rabbit heart, 701
- Amantadine**, effect on the handling of cardiac glycosides by HeLa cells, 877
- Amiloride**, reduction of fractional excretion of magnesium in rats, 891
- Amiloride-sensitive short circuit current**, induction by dexamethasone on rat colon, 783
- Amino-oxyacetic acid**, effect on diazepam-induced changes in 5-hydroxytryptamine turnover in rat cerebral cortex, 637
- γ -Aminobutyric acid**, effect of interactions with noradrenaline on high pressure neurological syndrome in rats, 725
- , inhibition of central mammalian neurones, effect of dissociative anaesthetics, 565
- , inhibition of twitch response in guinea-pig ileum, effect of homotaurine, 855
- , interaction with 5-hydroxytryptamine in the mode of action of diazepam in the rat, 637
- , interactions with ethylenediamine at the receptor, 973
- γ -Aminobutyric acid receptors**, activation by β -alanine in rat isolated optic nerve and cuneate nucleus, 799
- , antagonism by homotaurine in guinea-pig ileum, 855
- 3-Aminopropane sulphonic acid** *see* Homotaurine
- 4-Aminopyridine**, effect on smooth muscle cells of guinea-pig basilar artery, 23
- Ammonium chloride**, effect on the handling of cardiac glycosides by HeLa cells, 877
- Anaesthetics**, effect on cardiovascular responses of the rat to carbachol or noradrenaline, 693
- Analgesia**, morphine-induced, relevance of local effects in brainstem produced by micro-injection of morphine, 807
- Anaphylactic shock**, PAF-acether-induced death as model for evaluation of pharmacological agents *in vivo*, 593
- Angina**, action of isosorbide dinitrate, 737
- Angiotensin II**, effect on human isolated, perfused foetal cotyledon, 537
- , induction of contractions in rat uterine smooth muscle, effect of prostaglandin synthesis inhibitors, 121
- , induction of protein extravasation by, effect of calcium antagonists in the rat, 141
- , pressor responses to, effect of LM 5008 in rabbits, 915
- [¹²⁵I]-angiotensin II**, binding to rat renal epithelial cell membranes, 63
- Anococcygeus muscle**, mouse, biphasic non-adrenergic,

- non-cholinergic relaxations induced by trains of field stimulation, 611
- , mouse, effect of iontophoretic application of α -adrenoceptor agonists, 233
- Antiarrhythmic drugs**, pharmacological mapping of regional effects in rabbit heart, 701
- Antinociception**, in relation to opiate side effects in mice, 731
- , induction by meptazinol, morphine and oxotremorine in rats and mice, 191
 - , induction by morphine, significance of spinal and supraspinal action in anaesthetized cat, 807
 - , induction in mice and rats by nicotine and its methiodide derivatives, 869
- Aorta**, pig, endothelium-dependent relaxation, 531
- Aorta**, rabbit, spasmolytic effect of cadmium and cadmium uptake, 751
- Aortic strips**, rat, characterization of postsynaptic α -adrenoceptors, 655
- Apamin**, effect on field stimulation-induced biphasic relaxation of carbachol-induced tone in mouse anococcygeus muscle, 611
- Aplysia**, forskolin activation of an identified peptide-sensitive motoneurone, 631
- Apomorphine**, effect on antinociceptive activity of thyrotropin-releasing hormone in mice, 85
- , effect on thyrotropin-releasing hormone-induced gastric acid secretion in rats, 297
 - , production of conditioned taste aversion, effect of mecylamine, 245
- Arachidonic acid**, induction of basal release of prostaglandins from human skin fibroblasts, 849
- Arginine-vasopressin**, induction of aggregatory responses of human platelets, effect of 781094, 401
- Arrhythmias**, coronary artery ligation-induced, effect of propranolol in conscious rats, 265
- , coronary artery ligation-induced, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929
- Arteries**, rat, vascular reactivity, role of the endothelial cell, 771
- Ascorbate**, toxicity towards bovine chromaffin cells in culture, 947
- L-Aspartate**, excitation of central mammalian neurones, effect of dissociative anaesthetics, 565
- Aspirin**, and prostaglandin biosynthesis, 821
- , effect on acetal phosphatidic acid-induced platelet aggregation, 157
- Atenolol**, antagonism of β -adrenoceptor mediated relaxation of guinea-pig airway strips, 965
- , effect on relaxation of pig bronchus preparations induced by β -adrenoceptor agonists, 177
- Atrial fibres**, rat, effect of imipramine in non-treated and imipramine-pretreated rats, 167
- Atrio-ventricular node**, effects of new antiarrhythmic drugs in rabbits, 701
- Atropine**, antagonism of acetylcholine-induced relaxation of histamine-contracted strips of pig aorta, 531
- , antagonism of cardiovascular responses of the rat to carbachol and noradrenaline, 693
 - , effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
 - , effect on gastric secretion and motility in the mouse isolated stomach, 525

- , effect on inhibitory action of adenosine 5'-triphosphate in rat heart, 211
 - , effect on maitotoxin-induced contraction in guinea-pig intestinal smooth muscle, 3
 - , effect on negative chronotropic and inotropic responses in rat right atria, 451
 - , effect on [^3H]-phosphatidylcholine overflow in perfused rat lung slices, 363
 - , effect on spasmogenic action of tetraethylammonium in guinea-pig trachealis, 255
- Auranofin**, role in the control of proteolytic enzymes, 181
- Aurothioglucose**, role in the control of proteolytic enzymes, 181
- Aurothiomalate**, role in the control of proteolytic enzymes, 181
- Azepexole**, effect on release of 5-hydroxytryptamine and noradrenaline in rat cortex, 279

B

- (–)-**Baclofen**, inhibition of twitch response in guinea-pig ileum, effect of homotaurine, 855
- Barium chloride**, induction of abnormal automaticity in rat atrial fibres, effect of imipramine, 167
- Barium**, induction of rhythmic contractions, effect of calcium channel inhibitors and procedures affecting calcium translocation in rat vas deferens, 347
- Basilar artery**, guinea-pig, effect of agents that modulate potassium permeability on smooth muscle cells, 23
- BE2254**, responses in rat aortic strips and portal veins, 655
- Behavioural hyperactivity syndrome**, induction after treatment with LM 5008 and tranlycypromine in rabbits, 915
- , induction in rats by LM 5008 after pretreatment with selective monoamine oxidase inhibitors, 765
- Bemegride**, effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
- Benzodiazepine receptor**, structure-activity studies on the potentiation of binding by ethylenediamine analogues *in vitro* in rats, 973
- 2-(2(1,4-Benzodioxanyl) 2-imidazoline HCl** *see* RX781094
- Betaxolol**, inhibition of ^{125}I -iodocyanopindolol binding in pig coronary arteries, 409
- Bethanechol**, induction of gastric acid secretion in rats, effect of dopamine receptor agonists, 297
- Bicuculline**, effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
- Bladder**, rabbit, sensitivity of tetrodotoxin-resistant contractions to indomethacin in smooth muscle, 334
- Blood-brain barrier**, effect of calcium antagonists on permeability in the rat, 141
- Blood flow**, cerebral, effect of calcium antagonists in the rat, 141
- , coronary, effect of nitroglycerine in canine model of coronary artery stenosis in the dog, 337
 - , effect of intravenous infusion of live *E. coli* in cats, role of 5-hydroxytryptamine, 711
- Blood pressure**, arterial, effect of amiloride in rats, 891
- , arterial, effect of glycerol-induced acute renal failure in rats, 471

- , changes in response induced by intravenous infusion of *E. coli*, role of 5-hydroxytryptamine, 711
- , comparison of the effects of etomidate, with or without fentanyl, with those of urethane in rats, 461
- , correlation of changes with prostacyclin formation in spontaneously hypertensive rats, 19
- , effect of carbachol or noradrenaline injected into anterior hypothalamus of the rat, 693
- , effect of nitroglycerine in canine model of coronary artery stenosis in the dog, 337
- , effects of LM 5008 in rabbits, 315
- , effect of noradrenaline or nitroprusside in rats, reduction in rats with glycerol-induced acute renal failure, 471
- , responses to coronary artery ligation, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929
- , effect on binding of [¹²⁵I]-angiotensin II binding to rat renal epithelial cell membranes, 63
- Bradykinin**, effect on constrictor response to noradrenaline in diabetic and normal rats, 771
- , induction of relaxation of histamine contracted strips of pig aorta, 531
- Bradypnoea**, induction by opiate receptor agonists in rats, 997
- Brain**, mouse and rat, levels of [³H]-nicotine methiodides, [³H]-nicotine and ³H-residual radioactivity after subcutaneous administration, 869
- Brain stem**, guinea-pig, glycine-induced changes in acetylcholine release, 623
- , spinal cats, effect of microinjections of morphine on noxious heat-evoked excitation of dorsal horn neurones, 807
- Bremazocine**, potency in producing antinociception and opiate side effects in mice, 731
- Bromocriptine**, effect on thyrotropin-releasing hormone-induced gastric acid secretion in rats, 297
- Bronchoconstrictor responses**, to histamine or 5-hydroxytryptamine, effect of propranolol and practolol in guinea-pigs, 1003
- Bronchus**, pig, classification of β -adrenoceptors, 177
- Bupivacaine**, ³¹P nuclear magnetic resonance spectroscopic investigation of myotoxicity, 395
- Buprenorphine**, potency in producing antinociception and opiate side effects in mice, 731
- Butoxamine**, effect on the action of isoprenaline in rat isolated superior cervical ganglia, 441
- (±)-**Butoxamine**, effect on depolarization of rat isolated superior cervical ganglia of sympathomimetic amines, 429
- BW755c**, antagonism of enhanced histamine- and 5-hydroxytryptamine-induced bronchoconstrictions in guinea-pigs, 1003

C

- Cadmium**, spasmolytic effect and cadmium uptake in rabbit aorta, 751
- Caeruloplasmin**, effect of acute inflammation on synthesis in the rat, 45
- Caffeine**, effect on smooth muscle cells of guinea-pig basilar artery, 23

- Calcium**, effect of extracellular concentrations on potassium- and prostaglandin F_{2α}-induced contractions in cat arteries, 135
- , effect of isosorbide dinitrate on accumulation and release in mesenteric artery and vein, 737
- Calcium antagonists**, effect on cerebral blood flow and blood-brain barrier permeability in the rat, 141
- , effects on contractile proteins in smooth muscle, 225
- , effects on potassium- and prostaglandin F_{2α}-induced contractions in cat arteries, 135
- Calcium channel inhibitors**, effect on drug-induced rhythmic contractions in rat vas deferens, 347
- Calcium channels**, activation by maitotoxin in guinea-pig intestinal smooth muscle, 3
- Calcium conductance**, effect of imipramine in rat atrial fibres, 167
- Calcium current**, inactivation process in *Helix* neurones, accelerating effects of pentobarbitone, 645
- Calcium ions**, activation of contractile proteins in guinea-pig taenia caecum, 225
- Calcium translocation**, effect on drug-induced rhythmic contractions in rat vas deferens, 347
- Capsaicin**, induction of heat loss through peripheral sites in rats, 719
- Carbachol**, cardiovascular response of rats to intrahypothalamic injection, 693
- , effect on ⁸⁶Rb efflux from isolated aortic endothelial cells of the pig, 531
- , induction of contractions in isolated pig bronchus, effect of β -adrenoceptor agonists, 177
- , induction of contractions in rat uterine smooth muscle, effect of prostacyclin synthesis inhibitors, 121
- , induction of depolarization in rat superior cervical ganglia, effect of choline mustard, 489
- , induction of relaxation in histamine-contracted strips of pig aorta, 531
- , investigation of negative inotropic effects in rats with altered thyroid states, 451
- Carbenoxolone**, effect on synthesis of 6-keto prostaglandin E₁ in rabbit kidney, 149
- Carbon dioxide**, effect of inhalation and acetazolamide on cerebral circulation and systemic haemodynamics, 897
- Cardiac glycoside derivatives**, electrophysiological studies in isolated papillary muscle of guinea-pig, 755
- Cardiac sympathetic nerves**, effect of stimulation on endogenous noradrenaline overflow and heart rate in rats, 71
- Cardiovascular systems**, hypothalamic regulation, role of specific opiate receptors in rats, 997
- Carrageenan**, induction of pleurisy, effect on serum and liver copper concentrations, 45
- Cascade superfusion assay**, development, 821
- Catecholamines**, effect of 6-hydroxydopamine on content of cultured bovine adrenal chromaffin cells, 947
- Catechol-O-methyltransferase**, effect on sensitivity of guinea-pig heart to orciprenaline or isoprenaline, 517
- Cathepsin**, thiol-activated, inhibition by gold derivatives, 187
- Caudate nucleus**, guinea-pig, glycine-induced changes in acetylcholine release, 623
- Cell membranes**, effect of modification on anti-haemolytic action of chlorpromazine in intact human erythrocytes, 481

- Cerebral arteries**, cat isolated, influence of extracellular calcium and calcium antagonists on potassium- and prostaglandin $F_{2\alpha}$ -induced contractions, 135
- Cerebral circulation**, effects of drugs in relation to cerebral oxygen consumption, 897
- Cerebral cortex**, guinea-pig, glycine-induced changes in acetylcholine release, 623
- , rat, effect of diazepam on interactions between 5-hydroxytryptamine and γ -aminobutyric acid, 637
 - , rat, effect of iontophoretic application of opioid agonists on neurones, 305
- 1 - (5 - Chloroacetylaminobenzofuran - 2 - yl) - 2 - isopropyl-aminolthanol** *see* RO 037894
- Chlordiazepoxide**, in combination with phenylquinolines, sedative effects in rats, 219
- Chlorimipramine**, effect on pressor responses to tyramine and noradrenaline in rabbits, 915
- , plus tranlycypromine pretreatment induction of behavioural hyperactivity in rats, 765
- Chlorine ions**, effect of dopamine on urinary levels in adrenalectomized and sham-operated rats, 103
- 2-Chloro-adenosine 5'-triphosphate**, and its L-enantiomer, effect on guinea-pig taenia coli and urinary bladder and stimulated frog ventricle, 907
- 5 - Chloro - 4 - (2 - imidazole - 2-yl - amino) - 2,1,3 - benzo-thiadiazole** *see* DS103-282
- Chloro(triethyl phosphine) gold**, role in the control of proteolytic enzymes, 187
- (±)-Chloropheniramine**, effect on response of guinea-pig ileum to 'histamine-free' splenic extracts, 373
- p-Chlorophenylalanine**, abolition of response to LM 5008 plus tranlycypromine pretreatment in rats, 765
- , effect on antinociceptive activity of thyrotropic releasing hormone in mice, 85
- Chloroquine**, effect on the handling of cardiac glycosides by HeLa cells, 877
- Chlorpromazine**, effect on acetal phosphatidic acid-induced platelet aggregation, 157
- , effect of modification of membranes of intact erythrocytes on the anti-haemolytic action, 481
- Choline**, uptake in rat superior cervical ganglia, effect of hemicholinium-3, 489
- Choline mustard**, effect on rat superior cervical ganglia, 489
- Cholinergic function**, glycine influence in guinea-pig brain slices, 623
- Cholinergic mechanisms**, role in the antinociceptive activity of meptazinol in rats and mice, 191
- Chromaffin cells**, cultured bovine, effect of 6-hydroxydopamine on catecholamine content, 947
- Chromatofocusing separation**, characterization of 'renocortins' in rat renal cells, 313
- Chronotropic responses**, negative, mediation by cardiac muscarinic receptors, effect of altered thyroid state, 451
- , positive, guinea-pig cardiac tissue, mediation by β -adrenoceptors, 517
 - , to cervical and vagal stimulation, effects of glycerol-induced acute renal failure in rats, 471
 - , to octadecyl-2-acetyl-glyceryl-3-phosphorylcholine in rat atrial preparations, 667
- Cibenzoline**, pharmacological mapping of regional effects in rabbit heart, 701
- Cimetidine**, effect on the action of histamine on human coronary artery *in vitro*, 979
- Cinnarizine**, effect of calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- Clonidine**, antinociceptive action and interactions with opioid mechanisms in mice, 125
- , effect on glucose-induced insulin secretion by perfused mouse pancreatic islets, 415
 - , effect on prostacyclin formation in spontaneously hypertensive rats, 19
 - , effect on release of 5-hydroxytryptamine and noradrenaline in rat cortex, 279
 - , induction of pro-aggregatory response of human platelets, effect of 781094, 401
 - , responses in rat aortic strips and portal veins, 655
- Clorgyline**, effect on monoamine oxidase A and B activities in rat brain using different substrates, 477
- Cocaine**, effect on adrenergic and non-adrenergic contractions to field stimulation in rat vas deferens, 379
- , effect on concentration of noradrenaline at neuro-effector junction in human saphenous vein, 577
 - , effect on neurally evoked overflow of endogenous noradrenaline from the rat heart, 71
- Codeine**, potency in producing antinociception and opiate side effects in mice, 731
- Colchicine**, effect on concentrations of cyclo-oxygenase products in inflammatory exudates in experimental inflammation, 863
- , effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- Colon**, rat, conversion of sodium channels to a form sensitive to cyclic adenosine 3',5' monophosphate by components from red cells, 783
- Colonic temperature**, induction of fall in rats by capsaicin, 719
- Concanavalin A**, activation of lymphocytes, inhibition by gold sodium thiomalate, 617
- Conditioned taste aversion**, nicotine-induced in rats, 245
- Contractile force**, effect of imipramine in rat atrial fibres, 167
- Contractile proteins**, inhibitory actions of calcium antagonists and trifluoperazine in taenia preparations of guinea-pig caecum, 225
- Contractions**, adrenergic and non-adrenergic nerve-induced in rat vas deferens, pharmacological separation, 379
- , angiotensin II- or oxytocin-induced in rat uterine smooth muscle, effect of prostacyclin synthesis inhibitors, 121
 - , drug-induced, effects of calcium channel inhibitors and procedures affecting calcium translocation in rat vas deferens, 347
 - , effect of semisynthetic glycoside derivatives in isolated papillary muscle of guinea-pig, 755
 - , induced in guinea-pig ileum by 'histamine-free' splenic extracts, mediation by H_1 -histamine receptors
 - , potassium and noradrenaline-induced, effect of isosorbide dinitrate, 737
 - , potassium-evoked, effect of K-351 or nitroglycerine in dog coronary artery, 285
 - , potassium- or prostaglandin $F_{2\alpha}$ -induced, influence of extracellular calcium and calcium antagonist in cat arteries, 135
 - , tetrodotoxin-resistant in smooth muscle from the base

- of rabbit bladder, sensitivity to indomethacin, 334
- Copper**, metabolism during acute inflammation in rats, 45
- Coronary artery**, human, location for histamine receptors, 979
- , pig, investigation of β -adrenoceptors by 125 I-iodocyanopindolol binding studies, 409
- Coronary artery ligation**, induction of arrhythmias, effect of β -adrenoceptor blocking agents in rats, 939
- , induction of ventricular fibrillation, effect of felodipine in the pig, 6
- , mechanism of protection against sudden death induced by dexamethasone, 327
- Coronary artery stenosis**, effects of nitroglycerine on haemodynamic factors in canine model, 337
- Cortex**, rat, modulation of release of 5-hydroxytryptamine and noradrenaline by α -adrenoceptors, 279
- Cortisone acetate**, protective effect against platelet activating factor-induced toxicity in mice, 593
- Coryanthine**, effect on glucose-induced insulin secretion by perfused mouse pancreatic islets, 415
- , effect on inhibition of noradrenaline and 5-hydroxytryptamine release in rat cortex, 279
- Cortexolone**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Costo-uterine muscle**, guinea-pig, effect of ovarian steroid hormones on responses to isoprenaline or phenylephrine, 93
- Cotrimoxazole**, effects in proliferative and chronic phases of infection of mice treated with *Toxoplasma gondii*, 923
- Cotyledon**, human perfused, action of angiotensin II and 5-hydroxytryptamine, 53
- Crotamine**, membrane depolarization of skeletal muscles and interaction with other peptide toxins, 673
- Cuneate nucleus**, rat, depolarizing responses to glycine, β -alanine and muscimol, 799
- [125 I]-cyanopindolol, radioligand binding studies to identify distribution of β -adrenoceptors on guinea-pig airways, 965
- Cyclo-oxygenase**, inhibition by acetylsalicylic acid and dipyrone in human fibroblasts, 849
- Cyclo-oxygenase products**, identification of source in experimental inflammation, 863
- Cycloheximide**, effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- Cyproheptadine**, effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
- Cysteine**, removal of potassium-induced tension following treatment with cadmium in rabbit aorta, 751
- Cytochalasin**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587

D

- D600** *see* Methoxyverapamil
- Darmstoff**, actions of acetal phosphatidic acid constituents, 157
- Decortication**, effect on specific [3 H]-spiperone and [3 H]-N,*n*-propylnorapomorphine binding in rat striatum and substantia nigra, 599
- Dentate granule cells**, effect of nicotinamide adenine dinucleotide on antidromic invasion in guinea-pig hippocampal slices, 553
- Depolarization**, carbachol-induced in rat superior cervical ganglia, effect of choline mustard, 489
- Deprenyl**, effect on monoamine oxidase A and B activities in rat brain using different substrates, 477
- Desmethylinipramine**, blockade of pressor responses to tyramine in rabbits, 915
- , effect on neurally evoked overflow of endogenous noradrenaline from the rat heart, 71
- , effect on overflow of intact noradrenaline in human saphenous vein, 577
- Dexamethasone**, binding in rat peritoneal macrophages, 587
- , induction of sodium transport in rat colon, 783
- , protection against sudden death due to coronary ligation in conscious rats, 327
- , release of proteins from rat renal cells, 313
- Diabetes mellitus**, role of the endothelial cell in vascular reactivity, 771
- Diaphragm**, rat and mouse, effects of scorpion toxin, sea anemone toxin II and crotamine, 673
- Diazepam**, mode of action in rat, effect of interaction between 5-hydroxytryptamine and γ -aminobutyric acid in cerebral cortex, 637
- [3 H]-diazepam, effect of ethylenediamine analogues on binding to crude cortical synaptosomes *in vitro* in the rat, 973
- Diazoxide**, effect on drug-induced rhythmic contractions in rat vas deferens, 347
- 2 - (2,6 - Dichlorophenyl) - 5,6 - dihydroimidazo(2,1,6) thiazole**, responses in rat aortic strips and portal veins, 655
- Diet**, effect of changes on renal sodium excretion in conscious rabbit, 15
- Digitoxin**, effects of weak bases on accumulation and efflux in HeLa cells, 877
- , electrophysiological studies in isolated papillary muscle of guinea-pig, 755
- Digoxin**, effects of weak bases on accumulation and efflux in HeLa cells, 777
- Dihydralazine**, effect on prostacyclin formation in spontaneously hypertensive rats, 19
- 3,4 - Dihydro - 8 - (2 - hydroxy - 3 - isopropylaminopropoxy) - 3 - nitroxy - 2H - 1 - benzopyran** *see* K-351
- [3 H]-dihydroalprenolol, effect of octadecyl-2-acetyl-glycerol-3-phosphorylcholine on binding in rat cardiac membrane, 667
- , radioligand binding studies to identify distribution of β -adrenoceptors on guinea-pig airways, 965
- [3 H]-Dihydroergocryptine, binding to human blood platelets, effect of 781094, 401
- Dihydroergotamine**, effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
- 3',4'-Dihydroxy-2-methylpropiofenone** *see* U-0521
- 1-Dihydroxydopamine**, effect on noradrenaline concentrations in rat brain after pretreatment with monoamine oxidase inhibitors, 477
- 3,4-Dihydroxyphenylglycol**, effect of neuronal uptake blockade on efflux in human saphenous vein, 577
- Diltiazem**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- , effect on cerebral blood flow and blood-brain barrier permeability in the rat, 141
- , effect on potassium- and prostaglandin $F_{2\alpha}$ -induced contractions in cat arteries, 135

- Dimaprit**, effect on renin release in anaesthetized dogs, 57
- Diphenhydramine**, effect on response of guinea-pig ileum to 'histamine-free' splenic extracts, 373
- Dipyridamole**, effect on inhibitory action of adenylyl compounds in rat heart, 211
- , effect on metabolism and uptake of adenosine in rat isolated lung, 509
- Dipyrone**, effect on prostaglandin production in human fibroblast cultures, 849
- Disodium edetate**, removal of potassium-induced tension following treatment with cadmium, in rabbit aorta, 751
- Dissociation constants**, temperature-induced changes of agonists at cardiac β -adrenoceptors, 517
- Dissociative anaesthetics**, effect on excitation of central mammalian neurones by amino acids or acetylcholine, 565
- Diuresis**, dopamine-induced in rats, 103
- Diuretics**, effect on urinary magnesium in rats, 891
- DOCA hypertensive rats**, effect of LM 5008 on resting blood pressure, 915
- Dopamine**, induction of diuresis, natriuresis and decreased potassium ion excretion in rats, 103
- Dopamine receptor agonists**, influence on gastric acid secretion induced by intraventricular administration of thyrotropin-releasing hormone in rat perfused stomach, 297
- Dopamine receptors**, location in rat striatum and substantia nigra, 599
- Dorsal horn neurones**, effect of microinjections of morphine into brainstem of spinal anaesthetized cats on noxious heat-evoked excitation, 807
- DS103–282**, spinal interneurone depression in cat, 9

E

- E. coli**, induction of standardized septic shock in cats after intravenous infusion, 711
- E. coli endotoxins**, detoxified, modification of plasma acid phosphatase levels in endotoxaemia, 421
- Effective refractory period**, effect of imipramine in rat atrial fibres, 167
- EGTA**, effect on potency of pentobarbitone in depressing maximal peak amplitude of calcium current in *Helix* neurones, 645
- Eicosatetraynoic acid**, effect on contractile response of rat uterine smooth muscle to angiotensin II and oxytocin, 121
- Electrical activity**, measurement in guinea-pig trachealis muscle stimulated by tetraethylammonium, 75
- , smooth muscle of dog coronary artery, effect of K-351 or nitroglycerine, 285
- Electrical activity**, smooth muscle cells of rabbit vascular tissues, effect of isosorbide dinitrate, 737
- Electrocardiographic activity**, responses to coronary artery ligation, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929
- Electrophysiological effects**, of semisynthetic glycoside derivatives in isolated papillary muscle of guinea-pig, 755
- Endothelial cells**, effect of removal on antagonism of noradrenaline evoked constrictor response in microvessel and large arteries in normal and diabetic rats, 771
- Endothelium**, involvement in relaxation of histamine-

contracted strips of pig aorta by bradykinin, adenosine triphosphate or acetylcholine, 531

- Endotoxaemia**, modification of plasma acid phosphatase levels by drugs and chemically detoxified endotoxins, 421
- Enkephalin**, D-Ala²-D-Leu⁵-, cardiovascular effects in rats, 997
- , D-Ala²-MePhe⁴-Gly⁵-ol-, cardiovascular effects in rats, 997
- , Met-, effect of iontophoretic application to neurones in rat globus pallidus and cerebral cortex, 305
- Erythro-9-(2-hydroxy-3-nonyl)adenine**, potentiation of inhibitory effects of adenylyl compounds in rat heart, 211
- Erythrocytes**, effect of modification of membranes on anti-haemolytic action of chlorpromazine, 481
- Ethanolamine-O-sulphate**, effect on diazepam-induced changes in 5-hydroxytryptamine turnover in rat cerebral cortex, 637
- Ethylenediamine analogues**, effect on *in vitro* binding of [³H]-diazepam to crude cortical synaptosomal membranes in the rat, 973
- Ethylketazocine**, potency in producing antinociception and opiate side effects in mice, 731
- Etomidate**, induction of anaesthesia with and without fentanyl, comparison with anaesthesia induced by urethane in rats, 461
- Extracellular fluid volume**, effect of amiloride in rats, 891

F

- Felodipine**, effect on ventricular fibrillation after coronary artery ligation in pig, 6
- Fendiline**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- , effect on experimental model of myocardial ischaemia in dogs, 37
- Fenoterol**, induction of relaxation of pig bronchus preparations pre-contracted with carbachol, 177
- Fentanyl**, effect on etomidate-induced anaesthesia in the rat, 461
- Fibroblasts**, human, basal release of prostaglandins after incubation with arachidonic acid, 849
- Field stimulation**, induction of biphasic relaxation of carbachol-induced tone in mouse anococcygeus muscle, 611
- , mediation of responses by phenylephrine and isoprenaline of guinea-pig myometrium and costo-uterine muscle, 93
- Flunarizine**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- , effect on drug-induced rhythmic contractions in rat vas deferens, 347
- Fluoxetine**, effect on antinociceptive activity of thyrotropin-releasing hormone in mice, 85
- Flurazepam**, effect on responses to glycine, β -alanine and muscimol in rat optic nerve and cuneate nucleus, 799
- Formyl-methionyl-leucyl-phenylalanine**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Forskolin**, activation of an identified peptide-sensitive motoneurone in *Aplysia*, 631
- , effect on levels of cyclic adenosine 3',5' monophosphate and short circuit current, in rat colon, 783

FPL 55712, antagonism of enhanced histamine- and 5-hydroxytryptamine-induced bronchoconstrictions in guinea-pigs, 1003

Frusemide, effect on dopamine excretion after adrenalectomy in rats, 103

G

Ganglion depolarization, facilitation by isoprenaline in rat isolated superior cervical ganglia, role of cyclic adenosine 3',5'-monophosphate, 441

Ganglionic transmission, effect of choline mustard on rat superior cervical ganglia, 489

Gastric acid, effect of atropine or secoverine on secretion in mouse isolated stomach, 525

—, effect of dopamine receptor agonists on secretion induced by thyrotropin releasing hormone-induced secretion in rats, 297

Gastric motility, effect of atropine or secoverine in mouse isolated stomach, 525

Gel permeation separations, characterization of 'renocortins' in rat renal cells, 313

Giant potentials, effect of isethionate Ringer at frog neuromuscular junction, 201

Globus pallidus, rat, effect of iontophoretic application of opioid agonists on neurones, 305

Glomerular filtration rate, effect of amiloride in rats, 891

Glucocorticoids, mechanism of cardioprotective effect in acute myocardial infarction, 327

—, protection against PAF-acether toxicity in mice, 593

Glucose, induction of insulin secretion by mouse perfused pancreatic islets, effect of α -adrenoceptor antagonists, 415

L-Glutamate, excitation of central mammalian neurones, effect of dissociative anaesthetics, 565

Glycerol, induction of renal failure, assessment of autonomic and cardiovascular function in rats, 471

Glycine, depolarizing responses in isolated optic nerve and cuneate nucleus of the rat, 799

—, induction of changes in acetylcholine release from guinea-pig brain slices, 623

—, inhibition of central mammalian neurones, effect of dissociative anaesthetics, 565

Glycine receptor, study using rat isolated optic nerve, 799

Gold-containing drugs, control of proteolytic enzymes, 187

Gold sodium thiomalate, inhibition of activation of lymphoid cells by T and B cell mitogens, 617

Guanethidine, denervation of rat hind leg, effect on local application of capsaicin, 719

H

Haemolysed blood, effect on nerve-induced relaxation in mouse anococcygeus muscle, 611

Haffner's test, measurement of antinociceptive action of thyrotropin releasing hormone and morphine in mice, 85

Haloperidol, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85

—, prevention of inhibitory effects of dopamine receptor

agonists on thyrotropin releasing hormone-induced gastric acid secretion in rats, 297

Halothane, effect on responses of rats treated with cardiovascular drugs to coronary artery ligation, in rats, 929

Head-dipping, effect of phenylquinolines alone and in combination with chlordiazepoxide in rats, 219

Heart, dog, effect of calcium antagonists on experimental model of myocardial ischaemia, 37

—, guinea-pig, effect of temperature on sensitivity to sympathomimetic amines, 517

—, guinea-pig, effect of yohimbine and prolongation of pulse duration on [3 H]-noradrenaline efflux, 985

—, rabbit, pharmacological mapping of regional effects of new antiarrhythmic drugs, 701

—, rat, effect of adenylyl compounds, 211

—, rat perfused, determination of presynaptic pA₂ values for yohimbine and phentolamine under conditions of negligible autoinhibition, 109

Heart rate, comparison of the effects of etomidate, with or without fentanyl, with those of urethane in the rat, 461

—, effects of carbachol or noradrenaline injected into anterior hypothalamus of the rat, 693

—, effects of drug administration in dogs, 897

—, effects of glycerol-induced acute renal failure in rats, 471

—, nerve stimulation increase, effect of cocaine and desipramine, 71

—, response to coronary artery ligation, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929

Heat receptors, peripheral, stimulation by intravenous capsaicin triggers thermoregulatory response in the rat, 719

HeLa cells, effect of weak bases on the handling of cardiac glycosides, 877

Hemicholinium-3, effect on high and low affinity uptake of choline in rat superior cervical ganglia, 489

Hexamethonium, effect on antinociceptive action of nicotine and its methiodide derivatives in mice and rats, 869

—, effect on conditioned taste aversion produced by nicotine in rats, 245

High affinity uptake, of choline, effect of hemicholinium-3 in rat superior cervical ganglia, 489

High pressure neurological syndrome, interactions between γ -aminobutyric acid and noradrenaline in rats, 725

Hippocampus, guinea-pig, nicotinamide adenine dinucleotide depression of synaptic transmission and binding on synaptic membranes, 553

Histamine, effect on constrictor response to noradrenaline in diabetic and normal rats, 771

—, effect on human coronary arteries *in vitro*, 979

—, effect on renin release in anaesthetized dogs, 57

—, effect on response of guinea-pig ileum to 'histamine-free' splenic extracts, 373

—, induction of bronchoconstrictor responses, effect of propranolol in guinea-pigs, 1003

—, induction of bronchospasm, effect of β -adrenoceptor agonists in guinea-pig, 839

Histamine receptors, location in human coronary arteries, 979

—, role in release of renin in anaesthetized dogs, 57

H₁-histamine receptors, mediation of contractile response of guinea-pig ileum to 'histamine-free' splenic extracts, 373

Homocholine, effect on high and low affinity uptake of choline in rat superior cervical ganglia, 489

Homotaurine, effect in guinea-pig ileum, 855

Hot plate test, effect of 5,7-dihydroxytryptamine on action of morphine on responses in rats, 993

Hydrocortisone, ability to induce macrocortin secretion in rat peritoneal macrophages, 587

—, effect on toxicity of *E. coli* endotoxins *in vivo*, 421

3 β -Hydroxy-4,5-methylene-A,B-trans-scillarenin, electrophysiological studies in isolated papillary muscle of guinea-pig, 755

6-Hydroxydopamine, effect of lesions on specific [³H]-spiperone and [³H]-N,*n*-propylnorapomorphine binding in rat striatum and substantia nigra, 599

—, effect on catecholamine content and cell morphology of bovine adrenal chromaffin cells in culture, 947

—, effect on high pressure neurological syndrome in rats, as assessed by the appearance of tremors or convulsions, 725

—, induction of biphasic relaxations in mouse anococcygeus muscle, 611

—, with adrenalectomy, effect on responses of rat coronary artery to ligation, 267

2 - (β - (4 - hydroxyphenyl) - ethylaminomethyl)tetralone see BE2254

5-Hydroxytryptamine, effect of uptake blockade plus treatment with selective monoamine oxidase inhibitors in the rat, 765

—, effect on human isolated, perfused foetal coxycodon, 53

—, in the forebrain is involved in naloxone-precipitated jumping in morphine-dependent rats, 993

—, induction of aggregatory responses of human platelets, effect of 781094, 401

—, induction of bronchoconstrictor responses, effect of propranolol in guinea-pigs, 1003

—, induction of contractile responses in guinea-pig ileum, 373

—, interaction with γ -aminobutyric acid in the mode of action of diazepam in the rat, 637

—, positive inotropic effects in rat isolated atria, effect of age, 499

—, potassium-evoked release from rat cortex, effect of α -adrenoceptor agonists and antagonists, 279

—, role in feline response to intravenous infusion of live *E. coli*, 711

—, use as substrate in rat brain investigations of the effects of monoamine oxidase inhibitors, 477

5-Hydroxytryptophan, effect of pretreatment on the response to LM 5008 in rats, 765

—, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85

Hypermotility, bethanechol-induced, effect of secoverine in mouse isolated stomach, 525

Hyperthyroidism, effect on numbers of high affinity muscarinic receptor binding sites in rat myocardium, 451

Hypotension, induction by opiate receptor agonists in rats, 997

Hypothalamus, rat, effect of injections of carbachol or noradrenaline on blood pressure and heart rate, 693

—, rat, regulation of cardiovascular and respiratory sys-

tems, role of specific opiate receptors, 997

Hypothyroidism, effect on numbers of high affinity muscarinic receptor binding sites in rat myocardium, 451

I

ICI 118,551, antagonism of β -adrenoceptor mediated relaxation of guinea-pig airway strips, 965

—, effect on leukotriene C₄-induced bronchoconstriction in guinea-pig, 839

—, inhibition of ¹²⁵I-iodocyanopindolol binding in pig coronary arteries, 409

Ileum, guinea-pig, action of homotaurine, 855

—, guinea-pig, contractile responses to 'histamine-free' splenic extracts, mediation by H₁-histamine receptors, 373

—, guinea-pig, rapid degradation of [³H]-substance P *in vitro*, 543

—, guinea-pig isolated, induction of contraction by maitotoxin, 3

Imidazole, effect on synthesis of 6-keto-prostaglandin E₁ in rabbit kidney, 149

Imipramine, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85

—, electrophysiological effects in non-treated and imipramine-pretreated rat atrial fibres, 167

—, plus tranylcypromine pretreatment, induction of behavioural hyperactivity in rats, 765

4-[2-(3-Indolyl)ethyl] piperidine see LM 5008

Indomethacin, effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839

—, effect on contractile response of rat uterine smooth muscle to angiotensin II or oxytocin, 121

—, effect on inhibitory action of adenosine 5'-triphosphate in rat heart, 211

—, effect on platelet activating factor-induced toxicity in mice, 593

—, effect on synthesis of 6-keto prostaglandin E₁ in rabbit kidney, 149

—, effect on tetrodotoxin-resistant contractions in smooth muscle from rabbit bladder, 334

Infarct size, response to coronary artery ligation, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929

Inflammation, carrageenan-induced, effect on rat serum and liver copper concentrations, 45

—, identification of source of thromboxanes and prostaglandins from inflammatory exudates and serum, 863

Intropic responses, negative, mediation by cardiac muscarinic receptors, effect of altered thyroid state, 451

—, positive, guinea-pig cardiac tissue, mediation by β -adrenoceptors, 517

—, positive, induced by semi-synthetic glycoside derivatives in isolated papillary muscle of guinea-pig, 755

—, positive, phenylephrine-induced involvement of α -adrenoceptors in age-dependent differences, 499

—, to octadecyl - 2 - acetyl - glyceryl - 3 - phosphorylcholine in rat atrial preparations, 667

Insulin, effect of α -adrenoceptor antagonists on glucose-induced secretion by mouse perfused pancreatic islets, 415

- [³H]-insulin, use to determine extracellular space in guinea-pig ileum or rat vas deferens, 543
- ¹²⁵Iodocyanopindolol**, investigation of β -adrenoceptors in pig coronary arteries, 409
- Ipindole**, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
- Isthionate**, induction of abnormal spontaneous release of transmitter at the frog neuromuscular junction, 201
- Isobutylmethylxanthine**, effect on electrical responses of rat isolated superior cervical ganglia to isoprenaline, 441
- Isoprenaline**, effect of temperature on sensitivity of guinea-pig heart, 517
- , effect on cyclic adenosine 3',5'-monophosphate levels in rat isolated superior cervical ganglia, 441
 - , effect on [³H]-dihydroalprenolol binding in rat cardiac membrane, 667
 - , induction of abnormal automaticity in rat atrial fibres, effects of imipramine, 167
 - , induction of relaxations of guinea-pig airway strips, 965
 - , induction of relaxation of pig bronchus preparations pre-contracted with carbachol, 177
 - , inhibitory response of human and rat platelets, effect of β -adrenoceptor agonists and antagonists, 681
 - , positive inotropic effects in rat isolated atria, effect of age, 499
 - , production of depolarization of rat isolated superior cervical ganglia, 429
- (-)-**Isoprenaline**, antinociceptive action and interactions with opioid mechanisms in mice, 125
- Isosorbide dinitrate**, action on smooth muscle cells of rabbit vascular tissues, 737
- Isatogen derivatives**, effect on inhibitory action of adenosine 5'-triphosphate in isolated taenia of the guinea-pig caecum, 273

J

- Jumping**, naloxone-precipitated in morphine-dependent rats, involvement of forebrain 5-hydroxytryptamine, 993

K

- K-351**, effect on smooth muscle cells of dog coronary artery, 285
- Kainate**, effect of dissociative anaesthetics on excitation of central mammalian neurones, 565
- Kainic acid**, effect of lesions on specific [³H]-spiperone and [³H]-N,*n*-propylnorapomorphine binding in rat striatum and substantia nigra, 599
- Ketamine**, effect on excitation of central mammalian neurones by electrophoretically administered amino acids and acetylcholine, 565
- Ketanserin**, effect of pretreatment on feline haemodynamic responses to intravenous infusion of *E. coli*, 711
- Ketazocine**, potency in producing antinociception and opiate side effects in mice, 731

- Kidneys, dog**, role of histamine receptors in renin release, 57
- , mammalian, formation of 6-keto prostaglandin E₁, 149
 - , rabbit, mechanism of sodium excretion in response to dietary changes, 15
 - , rat, action of dopamine, importance of adrenal gland, 103
 - , rat, evidence for a magnesium-sparing action by amiloride during clearance studies, 891
- Kyotorphin**, effect of iontophoretic application to neurones in rat globus pallidus and cerebral cortex, 305

L

- Labetalol**, effect on responses of rat coronary artery to ligation, 265
- Lactate**, effect of calcium antagonists on uptake in anaesthetized, thoractomised dogs, 37
- Lactate dehydrogenase**, effect of perfusion of rat lung slices, 363
- Lanthanum**, abolition of increases in ⁸⁶Rb efflux induced by bradykinin, adenosine triphosphate and A23187 in isolated pig aortic strips, 531
- , effect on drug-induced rhythmic contractions in rat vas deferens, 347
- Lanthanum-resistant calcium fraction**, effect of tetraethylammonium in guinea-pig, 255
- Lecithin**, effects in human platelets, 157
- Leptazol**, effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
- Leucocytes**, effect of intravenous infusion of live *E. coli* in cat on circulating numbers, 711
- , possible source of cyclo-oxygenase products in inflammatory exudates, 863
- Leukotriene C₄**, induction of bronchoconstriction in guinea-pig, effect of β -adrenoceptor agonists, 839
- Leukotrienes**, bronchoconstrictor responses in guinea-pigs, 1003
- Linolealdehyde acetal phosphatidic acid**, platelet aggregation, 157
- Lipopolysaccharide-E-coli**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Liver**, rat, copper concentrations in acute inflammation, 45
- LM 5008**, effect on blood pressure and responses to sympathomimetic amines in rabbits, 915
- , induction of behavioural hyperactivity after pretreatment with tranlycypromine or 5-hydroxytryptophan in rats, 765
- Locomotor activity**, effect of phenylquinolines alone and in combination with chlordiazepoxide in rats, 219
- Low affinity uptake**, of choline, effect of hemicholinium-3 in rat superior cervical ganglia, 489
- Lung**, rat isolated, metabolism and uptake of adenosine and its inhibition, 509
- Lung surfactant**, method for studying secretion in the rat, 363
- Lymphocyte activation**, inhibition by gold sodium thiomalate of activation by T and B cell mitogens, 617
- Lysolecithin**, effects in human platelets, 157

M

- M-current**, inhibition by substance P in bullfrog sympathetic neurones, 330
- Macroscortin**, secretion in rat peritoneal macrophages, 587
- Macrophages**, rat peritoneal, specificity and inhibition of glucocorticoid-induced macroscortin secretion, 587
- Macula densa**, mediation of renal chemoreceptor release of renin in dogs, 57
- Magnesium**, sparing action of amiloride during renal clearance studies in rats, 891
- Magnesium ions**, effect on drug-induced rhythmic contractions in rat vas deferens, 347
- Maitotoxin**, induction of contraction and increase in tissue calcium content in guinea-pig intestinal smooth muscle, 3
- Mecamylamine**, blockade of conditioned taste aversion produced by nicotine in rats, 245
- , effect on the antinociceptive action of nicotine and methiodide derivatives in mice and rats, 869
- Mechanical activity**, measurement in guinea-pig trachealis muscle stimulated by tetraethylammonium, 75
- Melperone**, pharmacological mapping of regional effects in rabbit heart, 701
- Membrane potential**, depolarization by peptide toxins in skeletal muscle of rat and mouse, 673
- , effect of agents modulating potassium permeability on smooth muscle cells of guinea-pig basilar artery, 23
- , responses to iontophoretically applied α -adrenoceptor agonists in mouse anococcygeus muscle, 233
- Membrane resistance**, effect of agents modulating potassium permeability on smooth muscle cells of guinea-pig basilar artery, 23
- Membrane responsiveness**, effect of imipramine in rat atrial fibres, 167
- Membrane stabilizing activity**, of oxprenolol and its isomers and propranolol, contribution to antiarrhythmic activity, 939
- Mepacrine**, effect on acetal phosphatidic acid-induced platelet aggregation, 157
- Meptazinol**, antinociceptive responses to, in rats and mice, 191
- Mepyramine**, effect on actions of histamine on human coronary artery *in vitro*, 979
- , effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
- , effect on spasmogenic action of tetraethylammonium in guinea-pig trachealis, 255
- Mesenteric arteries**, cat isolated, influence of extracellular calcium and calcium antagonists on potassium- and prostaglandin F₂-induced contractions, 135
- Metamphrine**, effect on sensitivity of guinea-pig heart to orciprenaline or isoprenaline, 517
- Methacholine**, investigation of negative chronotropic and inotropic effects in rats with altered thyroid states, 451
- Methamphetamine**, effect on thyrotropin-releasing hormone-induced gastric acid secretion in rats, 297
- Methimazole**, induction of hypothyroidism in rats, 451
- Methoxamine**, effect on release of 5-hydroxytryptamine and noradrenaline in rat cortex, 279
- , induction of pro-aggregatory response of human platelets, effect of 781094, 401
- , induction of rhythmic contractions, effect of calcium channel inhibitors and procedures affecting calcium translocation in rat vas deferens, 347
- Methoxyverapamil**, effect on drug-induced rhythmic contractions in rat vas deferens, 347
- , effect on maitotoxin-induced contraction in guinea-pig intestinal smooth muscle, 3
- N-methyl aspartate**, effect of dissociative anaesthetics on excitation of central mammalian neurones, 565
- Methyl atropine**, abolition of bradycardias evoked in rats by carbachol and noradrenaline, 693
- 3 α -Methyl-digitoxigenin**, electrophysiological studies in isolated papillary muscle of guinea-pig, 755
- 3 α -Methyl-digitoxigenin-3 β -monoglucoside**, electrophysiological studies in isolated papillary muscle of guinea-pig, 755
- N-methyl-N-(1,3,4,6,7 β α -hexahydro-2H-benzo-[a]-quinolizin-2 β -yl) ibutanesulphonamide HCl** *see* Wy26703
- N-methyl-N-(1,3,4,6,7,11 β α -hexahydro-2H-benzo 1[a]-quinolizin-2P-yl) propan-1-sulphonamide HCl** *see* Wy26392
- α -Methyl noradrenaline**, responses in rat aortic strips and portal veins, 655
- α , β -Methylene adenosine 5'-triphosphate**, effect on rat heart, 211
- β , γ -Methylene adenosine 5'-triphosphate**, effect on rat heart, 211
- 4,5-Methylene-procillaridin**, electrophysiological studies in isolated papillary muscle of the guinea-pig, 755
- Methylergometrine**, effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
- 2-Methylthio-adenosine monophosphate**, effect on acetal phosphatidic acid-induced platelet aggregation, 157
- 2-Methylthio-adenosine 5'-triphosphate**, and its L-enantiomer, effect on guinea-pig taenia coli and urinary bladder and stimulated frog ventricle, 907
- α -Methyltyrosine**, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
- Methysergide**, effect on response of guinea-pig ileum to 'histamine-free' splenic extracts, 373
- Metoclopramide**, prevention of the antisecretory effects of dopamine receptor agonists on thyrotropin releasing hormone-induced gastric acid secretion in rats, 297
- Mianserin**, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
- Microvessels**, rat, vascular reactivity, role of the endothelial cell, 771
- Miniature endplate potentials**, effect of isethionate Ringer in frog neuromuscular junction, 201
- Monoamine oxidase type A and B**, effect of clorgyline or deprenyl on activities in rat brain using different substrates, 477
- Monoamine oxidase type A inhibition**, effect on response to LM 5008, abolition by *p*-chlorophenylalanine in rats, 765
- Morphiceptin**, cardiovascular effects in rats, 997
- Morphine**, antinociceptive activity in mice, 85
- , antinociceptive activity in rats and mice, 191
- , antinociceptive potency and interactions with sympathomimetic drugs in mice, 125
- , antinociceptive potency in and opiate side effects in mice, 731
- , cardiovascular effects in rats, 997

- , effect of iontophoretic application to neurones in globus pallidus and cerebral cortex of rats, 305
- , inhibition of twitch response in guinea-pig ileum, effect of homotaurine, 855
- , significance of spinal and supraspinal action in antinociceptive effect in cat dorsal horn, 807

Morphine-dependent rats, evidence that 5-hydroxytryptamine is involved in naloxone-precipitated jumping, 993

Mortality, response to coronary artery ligation, effect of various cardiovascular drugs and anaesthetic regimens in rats, 929

MR 2034, potency in producing antinociception and opiate side effects in mice, 731

Muscarinic receptors, mediation of responses in rat right atria, effects of altered thyroid state, 451

Muscimol, depolarizing responses in isolated rat optic nerve and cuneate nucleus, 799

- , effect on neurological syndrome in noradrenaline-depleted rats, 725

Muscle excitation, evidence of poor conductance in the longitudinal axis of guinea-pig isolated trachea, 75

Myocardial ischaemia, canine model, effect of nitroglycerine on haemodynamic factors, 337

- , effect of calcium antagonists on an experimental model mimicking classical angina, 37
- , haemodynamic factors, effects of nitroglycerine, 337
- , in conscious rat, 265

Myotoxicity, of bupivacaine, ³¹P nuclear magnetic resonance spectroscopic investigation, 395

Myometrium, guinea-pig isolated, effect of ovarian steroid hormones on responses to isoprenaline or phenylephrine, 93

N

NAD *see* **Nicotinamide adenine dinucleotide**

Nalorphine, potency in producing antinociception and opiate side effects in mice, 731

Naloxone, effect on actions of α -adrenoceptor agonist drugs in mice, 125

- , effect on actions of opioid agonists on neurones of rat globus pallidus and cerebral cortex, 305

- , effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85

- , effect on the antinociceptive responses of rats and mice to meptazinol, morphine and oxotremorine, 191

- , precipitation of jumping in morphine-dependent rats, involvement of forebrain 5-hydroxytryptamine, 993

- , reversal of all opioid/opiate effects in rats, 997

Naphazoline, effect on membrane potential in mouse anococcygeus muscle, 233

Natriuresis, dopamine-induced in rats, 103

Negative feedback, regulation of noradrenaline release in guinea-pig left atrial halves, 985

Neostigmine, effect on field stimulation-induced biphasic relaxation of carbachol-induced tone in mouse anococcygeus, 611

Neuraminidase, effect on anti-haemolytic action of chlorpromazine or thioridazine in intact human erythrocytes, 481

Neuro-effector junction, human saphenous vein, modulation of concentration of noradrenaline, 577

Neurogenic responses, guinea-pig airway smooth muscle, effect of vasoactive intestinal polypeptide or substance P, 634

Neuromuscular junction, frog, extracellular chloride replacement by isethionate induces abnormal spontaneous release of transmitter, 201

Neurotensin, effect on renal sodium excretion in conscious rabbit, 15

Neurotransmitter, in guinea-pig airway smooth muscle, 634

Neutropaenia, methotrexate-induced, effect on concentrations of cyclo-oxygenase products in serum and inflammatory exudates, 863

2-Nicotinamidoethyl nitrate, effect on smooth muscle cells of guinea-pig basilar artery, 23

Nicotinamide adenine dinucleotide, effect on prostacyclin and 6-keto prostaglandin F_{1 α} metabolism in mammalian kidneys, 149

- , effect on synaptic transmission and location of binding sites on synaptic membranes, 553

Nicotine, and its methiodide derivatives, antinociceptive effects in mice and rats, 869

Nicotine, production of conditioned taste aversion in rats, 245

Nifedipine, effect on adrenergic and non-adrenergic contractions to field stimulation in rat vas deferens, 379

- , effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225

- , effect on cerebral blood flow and blood-brain barrier permeability in the rat, 141

- , effect on drug-induced rhythmic contractions in rat vas deferens, 347

- , effect on platelet activating factor-induced toxicity in mice, 593

- , effect on potassium- and prostaglandin F_{2 α} -induced contractions in cat arteries, 135

Nimodipine, effect on potassium- and prostaglandin F_{2 α} -induced contractions in cat arteries, 135

Nitroglycerine, effects on electrical and mechanical properties of dog coronary artery, 285

- , effects on haemodynamic factors influencing myocardial ischaemia in canine model of coronary artery stenosis, 337

- , with various anaesthetic regimens, effect on arrhythmias and other responses to coronary artery ligation in rats, 929

Nitroprusside, effect on drug-induced rhythmic contractions in rat vas deferens, 347

- , pressor responses to, effect of glycerol-induced acute renal failure in rats, 471

Nomifensine, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85

Non-adrenergic contractions, to field stimulation in rat vas deferens, 379

Noradrenaline, cardiovascular response of rats to intrahypothalamic injection, 693

- , effect of clorgyline or deprenyl on concentrations in rat hypothalamus and caudate nucleus, 477

- , effect of glycerol-induced acute renal failure on plasma concentrations in rats, 471

- , effect of reduced brain levels on high pressure neurological syndrome in rats, 725

- , effect on membrane potential in mouse anococcygeus muscle, 233
- , hypothesis of negative feedback regulation of release in guinea-pig atrium, 985
- , induction of contractions, effect of nifedipine in rat vas deferens, 379
- , induction of contractions in rat aortic vascular smooth muscle and atrial preparations, effect of octadecyl-2-acetyl glyceryl-3-phosphorylcholine, 667
- , induction of contractions in smooth muscle of dog coronary artery, 285
- , induction of relaxations of guinea-pig airway strips, 965
- , inhibition of twitch response in guinea-pig ileum, effect of homotaurine, 855
- , modulation of concentration at the neuro-effector junction in human saphenous vein, 577
- , neurally evoked overflow from rat heart, effect of cocaine and desipramine, 71
- , potassium-evoked release from rat cortex, modulation by α -adrenoceptors, 279
- , pressor responses to, effect of glycerol-induced acute renal failure in rats, 471
- , pressor responses to, effect of LM 5008 in rabbits, 915
- , production of depolarization of rat isolated superior cervical ganglia, 429
- , responses in rat aortic strips and portal veins, 655
- , responses of microvessels and large arteries in normal and diabetic rats, 771
- (-)-**Noradrenaline**, antinociceptive action and interactions with opioid mechanisms in mice, 125
- , induction of relaxation of pig bronchus preparations pre-contracted with carbachol, 177
- [³H]-**noradrenaline**, effect of phentolamine, yohimbine and oxymetazoline on overflow in rat isolated perfused hearts, 109
- Nordihydroguaiaretic acid**, effect on contractile response of rat uterine smooth muscle to angiotensin II or oxytocin, 121
- Nortryptiline**, effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
- Noxious heat**, induction of excitation of dorsal horn neurone in anaesthetized cat, significance of spinal and supraspinal actions in antinociceptive effects of morphine, 807

O

- (±) - 1 - O - octadecyl - 2 - acetyl - glyceryl - 3 - phosphorylcholine, effects in aortic vascular smooth muscle and atrial preparations of the rat, 667
- Oestradiol 17 β** , ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Oestrogen**, effect on responses of guinea-pig myometrium to isoprenaline or phenylephrine, 93
- Olealdehyde acetal phosphatidic acid**, platelet aggregation, 157
- Opiate mechanisms**, role in antinociceptive activity of mep-tazinol in rats and mice, 191
- Opiate receptor agonists**, effects in mice in relation to their antinociceptive properties, 731

- Opiate receptors**, role in regulation of the cardiovascular and respiratory systems, 997
- Opiate side effects**, resulting from interactions of opiate receptor agonists with μ - and κ -opiate receptors, 731
- Opiates**, effects in nucleus preopticus medialis of the rat, 997
- Opioid mechanisms**, interactions with α -adrenoceptor agonist drugs, 125
- Opioid peptides**, effects in nucleus preopticus medialis of the rat, 997
- Optic nerve**, rat isolated, depolarizing responses to glycine, β -alanine and muscimol, 799
- Orciprenaline**, effect of temperature on sensitivity to, guinea-pig heart, 517
- Osmolarity**, effect on response to noradrenaline in normal and diabetic rats, 771
- Ouabain**, effects of weak bases on accumulation and efflux in HeLa cells, 877
- , induction of abnormal automaticity in rat atrial fibres, effects of imipramine, 167
- Oxotremorine**, antinociceptive responses to, in rats and mice, 191
- Oxprenolol isomers**, effect on arrhythmias resulting from acute coronary ligation in rats, 939
- Oxygen consumption**, cerebral, in relation to the effects of drugs on the cerebral circulation of the dog, 897
- , reduction in cardiac muscles by isosorbide dinitrate-induced vasodilatation, 737
- Oxygen demand**, effect of increases on haemodynamic factors influencing myocardial ischaemia, 337
- Oxygen supply**, effect of calcium antagonists in anaesthetized thoractomised dogs, 37
- Oxymetazoline**, antinociceptive action and interactions with opioid mechanism in mice, 125
- , effect on membrane potential in mouse anococcygeus muscle, 233
- , effect on [³H]-noradrenaline overflow in rat isolated perfused hearts, 109
- , responses in rat aortic strips and portal veins, 655
- Oxytocin**, induction of contractions in rat uterine smooth muscle, effect of prostaglandin synthesis inhibitors, 121

P

- PA₂**, determination of presynaptic values of yohimbine and phentolamine on the perfused rat heart under conditions of negligible autoinhibition, 109
- , values for atropine with methacholine as the agonists in rat right atria, 451
- Palmitaldehyde acetal phosphatidic acid**, platelet aggregation, 157
- 1-Palmityl lysophosphatidic acid**, aggregation of human platelets, 157
- Pancreatic islets**, mouse, effects of α -adrenoceptor antagonists on clonidine-induced inhibition of insulin secretion, 415
- Papaverine**, effect on constrictor response to noradrenaline in diabetic and normal rats, 771
- , effect on dose-response curves for phenylephrine and isoprenaline in isolated rat atria, 499

- , effect on synthesis of 6-keto prostaglandin E₁ in rabbit kidney, 149
- Paw pad**, rat, induction of rise in skin temperature by capsaicin, 719
- Pentazocine**, potency in producing antinociception and opiate side effects in mice, 731
- Pentobarbitone**, accelerating effects on inactivation process of the calcium current in *Helix* neurones, 645
 - , effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
 - , effect on responses to coronary artery ligation in rats treated with cardiovascular drugs, 929
 - , effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
- Pentylentetrazol**, effect on cerebral circulation in the dog in relation to cerebral oxygen consumption, 897
- Peptidase inhibitors**, effect on the responses of guinea-pig ileum and rat vas deferens to substance P, 543
- Peptide fragments**, effect on binding of ¹²⁵I-angiotensin II to rat epithelial cell membranes, 63
- Peptide hormone**, activation of motoneurone B16 in *Aplysia*, 631
- Perhexiline**, effect on cerebral blood flow and blood-brain barrier permeability in the rat, 141
- Peripheral vascular resistance**, reduction by ketanserin in cats after intravenous infusion of live *E. coli* in cats, 711
- Peritoneum**, mice, site of action of antinociceptive action of α -adrenoceptor agonist drugs, 125
- Pethidine**, effect on responses to coronary artery ligation in rats treated with cardiovascular drugs, 929
 - , potency in producing antinociception and opiate side effects in mice, 731
- pH**, effect on potency of pentobarbitone in depressing maximal peak amplitude of calcium current in *Helix* neurones, 645
- Phencyclidine**, effect on excitation of mammalian neurones by electrophoretically administered amino acids and acetylcholine, 565
- Phenoxybenzamine**, denervation of rat hind leg, effect on local application of capsaicin, 719
 - , effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
 - , effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
 - , effect on depolarization of rat isolated superior cervical ganglia of sympathomimetic amines, 429
- Phentolamine**, antagonism of cardiovascular responses of the rat to carbachol and noradrenaline, 693
 - , blockade of the octadecyl-2-acetyl-glycerol-3-phosphorylcholine-induced contraction of rat aortic vascular smooth muscle and atrial preparations, 667
 - , determination of presynaptic pA₂ values on perfused rat heart under conditions of negligible autoinhibition, 109
 - , effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
 - , effect on dose-response curves of α -adrenoceptor agonist drugs in mice, 125
 - , effect on inhibition of noradrenaline and 5-hydroxytryptamine release in rat cortex, 279
 - , effect on depolarization of rat isolated superior cervical ganglia of sympathomimetic amines, 429
- , influence on the age-dependent positive inotropic effects of phenylephrine in rat isolated atria, 499
- , responses in rat aortic strips and portal veins, 655
- D-Phenylalanine**, effect of iontophoretic application to neurones in rat globus pallidus and cerebral cortex, 305
- Phenylephrine**, age-dependent differences in positive inotropic effect on rat isolated atria, 499
 - , effect on membrane potential in mouse anococcygeus muscle, 233
 - , effect on [³H]-phosphatidylcholine overflow in perfused rat lung slices, 363
 - , effect on release of 5-hydroxytryptamine in rat cortex, 279
 - , responses in rat aortic strips and portal veins, 655
- β -Phenylethylamine**, use as substrate in rat brain investigations of the effects of monoamine oxidase inhibitors, 477
- 2-Phenylisatogen derivatives**, effect on the inhibitory action of adenosine 5'-triphosphate in isolated taenia of guinea-pig caecum, 273
- Phenylquinolines**, sedative effects, alone and in combination with chlordiazepoxides in rats, 219
- Phenylquinone abdominal stretching test**, antinociceptive effect of nicotine and its methiodide derivatives in rats and mice, 869
- 8-Phenyltheophylline**, antagonism of inhibitory actions of adenylyl compounds in rat heart, 211
- PGI₂** *see* Prostacyclin
- Phorbol myristate acetate**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Phosphatidic acid**, effects in human platelets, 157
- Phosphatidylcholine**, [³H]-disaturated, pharmacological modulation of overflow from perfused lung slices of adult rats, 363
- Phosphocreatine**, effect of bupivacaine on intracellular concentrations in rats, 395
- Phospholipase A₂**, effect of macrocortin on activity in rat peritoneal cells, 327
 - , effect of 'renocortins' on activity in rat renal cells, 313
- ³¹P-hosphorus nuclear magnetic resonance spectroscopy**, investigation of bupivacaine myotoxicity, 395
- Picrotoxin**, effect on γ -aminobutyric acid A and β -receptor mediated contractions and inhibition in guinea-pig ileum, 855
 - , effect on diazepam-induced changes in 5-hydroxytryptamine turnover in cat cerebral cortex, 637
 - , effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
 - , plus strychnine, effect on glycine-induced changes in acetylcholine release from guinea-pig brain slices, 623
- Pimozide**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- Piperoxan**, effect on dose response curves of α -adrenoceptor agonist drugs in mice, 125
- PK 8165**, sedative effects alone and in combination with chlordiazepoxide in rats, 219
- PK 9084**, sedative effects alone and in combination with chlordiazepoxide in the rat, 219
- Plasma**, mouse and rat, levels of [³H]-nicotine methiodides, [³H]-nicotine and ³H-residual radioactivity after subcutaneous administration, 869
 - , rabbit, effect of neurotensin, 15
- Platelet activating factor**, toxicity in mice, 593

- Platelets**, adenosine diphosphate-induced aggregation, effect of blood pressure changes in spontaneously hypertensive rats, 19
- , aggregation by acetal phosphatidic acids, 157
 - , cat, effect of intravenous infusion of *E. coli* to circulating numbers, 711
 - , human, aggregation by synthetic prostaglandins, 953
 - , human, effect of 781094 on aggregatory responses and on binding of [³H]-dihydroergocryptine, 401
 - , human, ligand binding to thromboxane receptors, 953
 - , rat and human, location for β -adrenoceptors, 681
 - , source of thromboxane B₂ in clotting blood, 863
- Pleurisy**, carrageenan-induced, effect on serum and liver copper concentrations in the rat, 45
- Polypeptides**, synthesis and release in renal calls by anti-inflammatory steroids, 323
- Portal veins**, rat, characterization of postsynaptic α -adrenoceptors, 655
- Potassium**, calcium activation of transport induced by vasodilator agents in isolated strips from pig aorta, 531
- , induction of contractions, effect of extracellular calcium and calcium antagonists in cat arteries, 135
 - , induction of contractions in dog coronary artery, effect of K-351 or nitroglycerine, 285
 - , induction of noradrenaline and 5-hydroxytryptamine release in rat cortex, modulation by α -adrenoceptors, 279
- Potassium chloride**, effect on [³H]-disaturated phosphatidylcholine overflow from perfused rat lung slices, 363
- Potassium conductance**, effect of imipramine in rat atrial fibres, 167
- Potassium ion current**, inhibition by substance P in bullfrog sympathetic neurones, 330
- Potassium ions**, effect of dopamine on urinary levels in adrenalectomized and sham operated rats, 103
- Practolol**, effect on arrhythmias resulting from acute coronary ligation in rats, 939
- , effect on the actions of isoprenaline in rat isolated superior cervical ganglia, 441
- (\pm)-**Practolol**, effect on depolarization of rat isolated superior cervical ganglia of sympathomimetic amines, 429
- , effect on leukotriene C₄-induced bronchoconstriction in guinea-pig, 839
- Pranolium**, effect on toxicity of *E. coli* endotoxins *in vivo*, 421
- Prazosin**, effect on antinociceptive action of noradrenaline in mice, 125
- , effect on glucose-induced insulin secretion by perfused mouse pancreatic islets, 415
 - , effect on prostacyclin formation in spontaneously hypertensive rats, 19
 - , effect on RX781094-evoked pressor responses in pithed rat preparations, 12
 - , responses in rat aortic strips and portal veins, 655
- Pressor responses**, RX781094-evoked in pithed rat preparations, 12
- Procaine**, effect on smooth muscle cells of guinea-pig basilar artery, 23
- Progesterone**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- , effect on the responses of guinea-pig myometrium to isoprenaline or phenylalanine, 93
- Propionate**, effect on giant potentials in frog neuromuscular junction, 201
- Propranolol**, effect on antinociceptive action of α -adrenoceptor agonist drugs in mice, 125
- , effect on arrhythmias resulting from coronary artery ligation in rats, 939
 - , effect on [³H]-dihydroalprenolol binding in rat cardiac membrane, 667
 - , effect on positive inotropic and chronotropic responses to octadecyl-2-acetyl-glycerol-3-phosphorylcholine in rat atrial preparations, 667
 - , effect on relaxation of pig bronchus preparations induced by β -adrenoceptor agonists, 177
 - , effect on responses of rat coronary artery to ligation, 265
 - , induction of airway hyper-reactivity in guinea-pigs, 1003
 - , influence on the age-dependent positive inotropic effects of phenylephrine in rat isolated atria, 499
 - , with various anaesthetic regimens, effect on arrhythmias and other responses to coronary artery ligation in rats, 929
- (+)-**Propranolol**, effect on leukotriene C₄-induced bronchoconstriction in guinea-pig, 839
- , effect on toxicity of *E. coli* endotoxins *in vivo*, 421
- (-)-**Propranolol**, effect on depolarization of rat isolated superior cervical ganglia of sympathomimetic amines, 429
- , effect on leukotriene C₄-induced bronchoconstriction in guinea-pig, 839
- (\pm)-**Propranolol**, effect on field stimulation-induced biphasic relaxation of carbachol-induced tone in mouse anococcygeus, 611
- , effect on [³H]-phosphatidylcholine overflow in perfused rat lung slices, 363
- [³H]-**N, α -propylnorapomorphine**, location of specific binding sites in striatum and substantia nigra of the rat, 599
- Proscillaridin**, electrophysiological studies in isolated papillary muscle of guinea-pig, 755
- Prostacyclin**, clinical applications, 821
- , correlation of blood pressure changes in spontaneously hypertensive rats with formation in thoracic aorta, 19
 - , discovery and development, 821
 - , effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
 - , metabolism in mammalian kidneys, 149
- Prostaglandin E₁**, effect on acetal phosphatidic acid-induced platelet aggregation, 157
- , 6-keto, formation in mammalian kidneys, 149
- Prostaglandin E₂**, effect of 'renocortins' on secretion in rat renal cells, 313
- , identification of source in experimental inflammation, 863
 - , inhibition of release by acetylsalicylic acid and dipyrene in human fibroblast cultures, 849
 - , with various anaesthetic regimens, effect on arrhythmias and other responses to coronary artery ligation in rats, 929
- Prostaglandin F_{1 α}** , 6-keto, metabolism in mammalian kidneys, 149
- , 6-oxo-, identification of source in experimental inflammation, 863

- , 6-oxo-, inhibition of release by acetylsalicylic acid or dipyrone in human fibroblast cultures, 863
- Prostaglandin F_{2α}**, induction of contractions, effect of extracellular calcium and calcium antagonists in cat arteries, 135
- , inhibition of release by acetylsalicylic acid or dipyrone in human fibroblast cultures, 863
- Prostaglandin F_{2α} analogues**, displacement of [³H]-15(S)9,11-epoxymethano prostaglandin H₂ in human platelets, 953
- Prostaglandin H₂**, displacement of [³H]-15(S)9,11-epoxymethano prostaglandin H₂ in human platelets, 953
- Prostaglandin I₂** *see* Prostacyclin
- Prostaglandin endoperoxides**, displacement of [³H]-15(S)9,11-epoxymethano prostaglandin H₂ in human platelets, 953
- Prostaglandin synthesis inhibitors**, effect on angiotensin II- and oxytocin-induced contractions in rat uterine smooth muscle, 121
- Protein extravasation**, angiotensin II- and adrenaline-induced, effect of calcium antagonists, 141
- Proteolysis**, role of gold in the control, 187
- P₁-purinoceptors**, presence in rat atrium, 211
- P₂-purinoceptors**, possible mediation of actions of adenosine 5'-triphosphate in rat ventricle, 211
- , stereoselectivity studies, 907
- Purkinje fibres**, effects of new antiarrhythmic drugs in rabbits, 701
- Puromycin**, effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- 2-(2-Pyridyl) ethylamine**, effect on renin release in anaesthetized dogs, 57
- Pyrimethamine-sulphadiazine**, effects in proliferative and chronic phases of infection of mice treated with *Toxoplasma gondii*, 923

Q

- Quisqualate**, effect of dissociative anaesthetics on excitation of central mammalian neurones, 565

R

- RO363**, induction of relaxation of pig bronchus preparations pre-contracted with carbachol, 177
- Radioactivity**, analysis of effluent after [³H]-adenosine infusion to rat isolated lung, 509
- Rauwolfscine**, effect on inhibition of noradrenaline and 5-hydroxytryptamine release in rat cortex, 279
- , responses in rat aortic strips and portal veins, 655
- Rearing**, effect of phenylquinolines alone and in combination with chlordiazepoxide in rats, 219
- Red cell components**, conversion of sodium channels to a form sensitive to cyclic adenosine 3',5' monophosphate, 783
- Relaxations**, biphasic non-adrenergic, non-cholinergic, induced by field stimulation in mouse anococcygeus pretreated with carbachol, 611
- Renal cells**, rat, characterization and partial purification of 'renocortin', 313

- Renal cortex**, rat, identification of high affinity binding sites for [¹²⁵I]-angiotensin II, 63
- Renal failure**, glycerol-induced, assessment of autonomic and cardiovascular function in rats, 471
- Renal vasodilatation**, effect of histamine, dimaprit and 2-(2-pyridyl) ethylamine in anaesthetized dogs, 57
- Renin**, effect of histamine, dimaprit and 2-(2-pyridyl) ethylamine on release in anaesthetized dogs, 57
- Renocortins**, characterization and partial purification in rat renal cells, 313
- Reserpine**, effect on airway hyper-responsiveness induced by (–)-propranolol in guinea-pig, 839
- , effect on octadecyl-2-acetyl-glycerol-3-phosphorylcholine-evoked responses of rat aortic vascular smooth muscle and atrial preparations, 667
- , effect on RX781094-evoked pressor responses in pithed rat preparations, 12
- Respiration**, adenosine 5'-diphosphate-induced, effect of isatogen derivatives in isolated taenia of guinea-pig caecum, 273
- Respiratory systems**, hypothalamic regulation, role of specific opiate receptors in rats, 997
- Resting tone**, dog coronary artery, effect of K-351 and nitroglycerine, 285
- Rheumatoid arthritis**, role of gold in the attempted control of proteolysis, 187
- Ro 03-7894**, effect on sensitivity of guinea-pig heart to orciprenaline or isoprenaline, 517
- Ro 20-1724**, effect on electrical responses of rat isolated superior cervical ganglia to isoprenaline, 441
- ⁸⁶Rubidium**, relationship of stimulation of efflux to endothelium-dependent relaxation for the pig aorta, 531
- Rutin**, effect on synthesis of 6-keto prostaglandin E₁ in rabbit kidney, 149
- RX 781094**, effect on aggregatory responses of human blood platelets and on binding of [³H]-dihydroergocryptine to the cells, 401
- , induction of pressor response in pithed rat preparations, 12

S

- Sagittal sinus outflow**, measurement after drug administration, in relation to cerebral oxygen consumption in dogs, 897
- Salbutamol**, effect on [³H]-disaturated phosphatidylcholine overflow from perfused rat lung slices, 363
- , effect on rat isolated superior cervical ganglia, 441
- , effect on relaxation of pig bronchus preparations induced by β-adrenoceptor agonists, 177
- , production of depolarization of rat isolated superior cervical ganglia, 429
- Saphenous vein**, human, modulation of the concentration of noradrenaline at the neuro-effector junction, 577
- Scopolamine**, effect on the antinociceptive responses of rats and mice to meptazinol, morphine and oxotremorine, 191
- Scorpion toxin**, membrane depolarization of skeletal muscles and interactions with other peptide toxins, 673
- Sea anemone toxin**, membrane depolarization of skeletal muscles and interaction with other peptide toxins, 673

- Secoverine**, effect on gastric secretion and motility in the mouse isolated stomach, 525
- Sedation**, induced by phenylquinolines alone and in combination with chlordiazepoxide in rats, 219
- Septic shock**, induction by intravenous infusion of *E. coli* to cats, role of 5-hydroxytryptamine, 711
- Serum**, rat, copper concentrations in acute inflammation, 45
- Sialic acids**, release from intact human erythrocytes after neuraminidase or trypsin, 481
- Sino-atrial node**, effects of new antiarrhythmic drugs in rabbits, 701
- Skeletal muscles**, study of membrane depolarization of skeletal muscles caused by scorpion toxin, sea anemone toxin II and crotonamine and the interactions between toxins, 673
- Slow wave activity**, effect of tetraethylammonium in guinea-pig trachealis, 255
- Smooth muscle**, guinea-pig taenia caecum, effects of calcium antagonists and trifluoperazine on contractile proteins, 225
- , measurement of relaxation induced by isatogen derivatives in isolated taenia of guinea-pig caecum, 273
- , rabbit bladder, sensitivity of tetrodotoxin-resistant contractions to indomethacin, 334
- , rat uterine, effect of prostacyclin synthesis inhibitors on angiotensin II- and oxytocin-induced contractions, 121
- Smooth muscle cells**, dog, effect of K-351 and its denitrated derivative on electrical and mechanical properties, 285
- , effect of isosorbide nitrate in rabbit vascular tissues, 737
- Sodium**, effect of histamine, dimaprit and 2-(2-pyridyl) ethylamine on urinary excretion in anaesthetized dogs, 57
- , mechanism of renal excretion in response to dietary changes, 15
- Sodium auric chloride**, role in the control of proteolytic enzymes, 187
- Sodium channels**, conversion to a form sensitive to cyclic adenosine 3',5'-monophosphate by components from red cells, 783
- , site of action of peptide toxins, 673
- Sodium chloride**, effect on binding of [¹²⁵I]-angiotensin II in rat epithelial cell membranes, 63
- , effect on dopamine excretion after adrenalectomy in rats, 103
- Sodium chloraurate**, inhibition of lymphocyte activation, 617
- Sodium hydrochloride**, detoxification of *E. coli* endotoxins, 421
- Sodium ions**, effect of dopamine on urinary levels in adrenalectomized and sham operated rats, 103
- Sodium periodate**, detoxification of *E. coli* endotoxins, 421
- Sodium pumps**, effect of weak bases on binding of cardiac glycoside and pump recovery following block, 877
- Sodium thiomalate**, inhibition of lymphocyte activation, 617
- Spike activity**, effect of agents modulating potassium permeability on smooth muscle cells of guinea-pig basilar artery, 23
- Spinal cord**, cat, depressant effect of DS103-282, 9
- , effect of microinjections of morphine to cat brainstem, 807
- Spinal fluid pressure**, effects of drug administration in dogs, 897
- [³H]-spiperone**, location of specific binding sites in rat striatum and substantia nigra, 599
- Spiramycin**, effects in proliferative and chronic phases of infection of mice treated with *Toxoplasma gondii*, 923
- Splenic extracts**, 'histamine-free', mediation of contractile responses of guinea-pig ileum by H₁-histamine receptors, 373
- Spontaneous activity**, effect of imipramine in rat atrial fibres, 167
- SQ 22,536**, effect on the action of isoprenaline in rat isolated superior cervical ganglia, 441
- ST-segment**, effect of calcium antagonists on elevation in anaesthetized, thoractomized dogs, 37
- , effect of nitroglycerine on elevation in canine model of coronary artery stenosis in the dog, 337
- Stereoselectivity**, of the P₂-purinoceptor in guinea-pig taenia coli and urinary bladder and stimulated frog ventricle, 907
- Steroids**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Stimulation pulse duration**, effect of prolongation on [³H]-noradrenaline efflux in guinea-pig heart, 985
- Stomach**, mouse isolated, effect of atropine or secoverine on gastric acid secretion and motility, 525
- Striatum**, rat, location of dopamine receptors, 599
- Strychnine**, effect on glycine-induced changes in acetylcholine release from guinea-pig brain slices, 623
- , effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
- Submaximal transmission**, facilitation by isoprenaline in rat isolated superior cervical ganglia, role of cyclic adenosine 3',5'-monophosphate, 441
- Substance P**, effect on binding of [¹²⁵I]-angiotensin II to rat renal epithelial cell membranes, 63
- , inhibition of the M-current in bullfrog sympathetic neurones, 330
- , involvement in nerve-mediated effects on guinea-pig airway smooth muscle tone, 634
- [³H]-substance P**, rapid degradation in guinea-pig ileum and rat vas deferens *in vitro*, 543
- Substantia nigra**, rat, location of dopamine receptors, 599
- Sulphasalazine**, effect on synthesis of 6-keto prostaglandin E₁ in rabbit kidney, 149
- Superior cervical ganglia**, effect of choline mustard, 489
- , rat, mediation of depolarization by β_2 -adrenoceptors, 429
- Sympathetic activity**, effect of modification on responses to ligation of a coronary artery in the conscious rat, 265
- Sympathetic neurones**, bullfrog, inhibition of M-current by substance P, 330
- Synaptic membranes**, guinea-pig hippocampal slices, effect of nicotinamide adenine dinucleotide on electrical excitability and location of binding sites, 553
- Synaptic transmission**, depression by nicotinamide adenine dinucleotide in guinea-pig hippocampal slices, 553
- Systemic aortic pressure**, effects of drug administration in dogs, 897
- T**
- Tachycardia**, induction by opiate receptor agonists in rats, 997

- Taenia caecum**, guinea-pig isolated, induction of contraction by maitotoxin, 3
- Taenia coli**, guinea-pig, studies on the stereo-selectivity of the P₂-purinoceptor, 907
- Tail**, rat, induction in rise in skin temperature by capsaicin, 719
- Tail-flick test**, antinociceptive effect of nicotine and its methiodide derivatives in rats and mice, 869
- Taurine**, effect on acetylcholine release from guinea-pig brain slices, 623
- , effect on inhibitory actions of γ -aminobutyric acid and (–)-baclofen in guinea-pig ileum, 855
- Temperature**, effect on sensitivity of guinea-pig heart to orcprenaline and isoprenaline, 517
- Tension**, effect of age on development induced with age in rat isolated atria, 499
- Terbutaline**, induction of relaxations of guinea-pig airway strips, 965
- Testosterone**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Tetraethylammonium**, effect on [³H]-noradrenaline efflux in guinea-pig atrium, 985
- , effect on smooth muscle cells of guinea-pig basilar artery, 23
- , spasmogenic action in guinea-pig trachealis, 255
- 9-(Tetrahydro-2-furyl)adenine** see SQ 22,536
- Tetrodotoxin**, effect on field stimulation-induced relaxation of carbachol-induced tone in mouse anococcygeus, 611
- , effect on giant potentials evoked by isethionate Ringer in frog neuromuscular junction, 201
- , effect on maitotoxin-induced contraction in guinea-pig intestinal smooth muscle, 3
- , effect on spasmogenic action of tetraethylammonium in guinea-pig trachealis, 255
- , effect on electrical responses of rat isolated superior cervical ganglia to isoprenaline, 441
- Thermoregulation**, effect of capsaicin in rats, 719
- , effect of phenylquinolines alone and in combination with chlórdiazepoxide in rats, 219
- Thiosulphate ions**, effect on the action of choline mustard on rat superior cervical ganglia, 489
- Thrombin**, induction of aggregatory responses of human platelets, effect of 781094, 401
- Thrombocytopenia**, effect on concentrations of cyclo-oxygenase products in serum or inflammatory exudates, 863
- Thromboxane A₂**, displacement of [³H]-15(S)9, 11-epoxymethano prostaglandin H₂ in human platelet, 953
- Thromboxane B₂**, identification of source in experimental inflammation, 863
- Thromboxane partial agonists**, displacement of [³H]-15(S)9,11-epoxymethano prostaglandin H₂ in human platelets, 953
- Thromboxane receptors**, binding of ligands in human platelets, 953
- Thymoxamine**, reduction of hypertensive responses of the rat to carbachol or noradrenaline, 693
- Thyroid hormone**, effect on negative chronotropic and inotropic responses mediated by cardiac muscarinic receptors, 451
- Thyrotropin releasing hormone**, antinociceptive activity in mice, 85
- , induction of gastric acid secretion in rat perfused stomach, effect of dopamine receptor agonists, 297
- Thyroxine**, induction of hyperthyroidism in rats, 451
- Timolol**, antagonism of β -adrenoceptor mediated relaxation of guinea-pig airway strips, 965
- , effect on arrhythmias resulting from coronary artery ligation in rats, 939
- Toxicity**, of 6-hydroxydopamine in bovine adrenal chromaffin cells, 947
- , of semisynthetic glycoside derivatives, 755
- Toxoplasma gondii**, antitoxoplasm effects of cotrimoxazole, spiramycin and pyrimethamine-sulphadiazine in mice, 923
- Trachea**, guinea-pig isolated, evidence of poor conductance of muscle excitation in longitudinal axis, 75
- Tranlycypromine**, effect of pretreatment on response to LM 5008, abolition by *p*-chlorophenylalanine in rats, 765
- , effect on blood pressure in normal and DOCA hypertensive rats, 915
- , effect on monoamine oxidase type A and B activities in rat brain using noradrenaline as a substrate, 477
- Triamcinolone**, ability to induce macrocortin secretion in rat peritoneal macrophages, 587
- Trifluoperazine**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- Trimethoprim-sulphamethoxazole** see Cotrimoxazole
- Trimethylcolchicinic acid**, effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587
- Trypsin**, effect on anti-haemolytic action of chlorpromazine or thiordazine in intact human erythrocytes, 481
- , inhibition by gold containing drugs in free solution, 187
- Tubocurarine**, blockade of mechanical activity in frog skeletal muscles induced by isethionate, 201
- , effect on field stimulation-induced biphasic relaxation of carbachol-induced tone in mouse anococcygeus, 611
- , effect on responses to glycine, β -alanine and muscimol in rat isolated optic nerve and cuneate nucleus, 799
- Twitch response**, of rat and mouse diaphragms, effect of peptide toxins, 673
- Tyramine**, pressor responses to, effect of LM 5008 in rabbits, 915

U

- U-0521**, effect on sensitivity of guinea-pig heart to orcprenaline or isoprenaline, 517
- U-46619**, induction of aggregatory responses of human platelets, effect of 781094, 401
- UK-14304**, induction of aggregatory response of human platelets, effect of 781094, 401
- Urethane**, induction of anaesthesia, comparison with anaesthesia induced by etomidate, with or without fentanyl in the rat, 461
- Urinary bladder**, guinea-pig, studies on the stereoselectivity of the P₂-purinoceptor, 907
- , toad, increases in amiloride-sensitive short circuit current induced by forskolin, 783
- Urine volume**, effect of amiloride in rats, 891
- , effect of dopamine in adrenalectomized and sham operated rats, 103
- Uterus**, rat, effect of prostacyclin synthesis inhibitors on angiotensin II- and oxytocin-induced contractions, 121

V

- Vas deferens**, rat, effects of calcium channel inhibitors and procedures affecting calcium translocation on drug-induced rhythmic contractions, 347
- , rat, rapid degradation of [³H]-substance P *in vitro*, 543
- Vascular tissues**, rabbit, action of isosorbide dinitrate on smooth muscle cells, 737
- Vasoactive intestinal polypeptide**, relaxation of carbachol-contracted guinea-pig airway smooth muscle, 634
- Ventricle**, frog stimulated, studies on the stereoselectivity of the P₂-purinoceptor, 907
- Ventricular fibrillation**, effect of felodipine in anaesthetized pig, 6
- Verapamil**, effect on calcium ion-induced contractions of taenia preparations from guinea-pig caecum, 225
- , effect on drug-induced rhythmic contractions in rat vas deferens, 347
- , effect on experimental model of myocardial ischaemia in dogs, 37
- , effect on platelet activating factor-induced toxicity in mice, 593
- , effect on potassium- and prostaglandin F_{2α}-induced contractions in cat arteries, 135
- Vinblastine**, effect on glucocorticoid-induced macrocortin secretion from rat peritoneal macrophages, 587

W

- WB4101**, effect on inhibition of noradrenaline and 5-hydroxytryptamine release in rat cortex, 279
- Withdrawal syndrome**, precipitation by naloxone in

- morphine-dependent rats injected with 5,7-dihydroxytryptamine in ventromedial tegmentum, 993
- Writhing tests**, measurement of antinociceptive action of thyrotropin releasing hormone and morphine in mice, 85
- Wy26392**, effect on RX781094-evoked pressor responses in pithed rat preparations, 12
- Wy26703**, effect on RX781094-evoked pressor responses in pithed rat preparations, 12

Y

- Yohimbine**, determination of presynaptic pA₂ values on perfused rat heart under conditions of negligible autoinhibition, 109
- , effect on antinociceptive activity of thyrotropin releasing hormone in mice, 85
- , effect on concentration of noradrenaline at neuro-effector junction in human saphenous vein, 577
- , effect on glucose-induced insulin secretion by perfused mouse pancreatic islets, 415
- , effect on inhibition of noradrenaline and 5-hydroxytryptamine release in rat cortex, 279
- , effect on [³H]-noradrenaline efflux in guinea-pig heart, 985
- , responses in rat aortic strips and portal veins, 655

Z

- Zinterol**, inhibition of ¹²⁵I-iodocyanopindolol binding in pig coronary arteries, 409