

INDEX TO VOLUME 80

AUTHOR INDEX

A

- AEHRLINGHAUS, U., PESKAR, B.A., WITTENBERG, H.R. & WÖBLING, R.H. Effect of inhibition of synthesis and receptor antagonism of SRS-A in cardiac anaphylaxis, 73
- AGER, A. & MARTIN, W. Loss of receptor-mediated ⁸⁶Rb efflux from pig aortic endothelial cells in culture, 5
- AKASU, T., KOJIMA, M. & KOKETSU, K. Substance P modulates the sensitivity of the nicotinic receptor in amphibian cholinergic transmission, 123
- ALEXANDER, D.L., EYRE, P. & GORDON, V.P. Anaphylactic contraction (Schultz-Dale reaction) of the bovine bronchial artery *in vitro*, 7
- AMELLAL, M. & LANDRY, Y. Lanthanides are transported by ionophore A23187 and mimic calcium in the histamine secretion process, 365
- AULAKH, C.S., COHEN, R.M., MCLELLAN, C. & MURPHY, D.L. Correlation of changes in α_2 -adrenoceptor number and locomotor responses to clonidine following clorgyline discontinuation, 10
- AULT, B. & NADLER, J.V. Effect of baclofen on synaptically-induced cell firing in the rat hippocampal slice, 211
- AUSTEN, K.F., COREY, E.J., DRAZEN, J.M. & LEITCH, A.G. The effect of indomethacin on the contractile response of the guinea-pig lung parenchymal strip to leukotrienes B₄, C₄, D₄ and E₄, 47

B

- BACH-DIETERLE, Y., HOLDEN, W.E. & JUNOD, A.F. A comparison of adenine and some derivatives on pig isolated tracheal muscle, 603
- BALL, H.A., PARRATT, J.R. & RODGER, I.W. The effect of a selective 5-HT₂ antagonist, ketanserin, on the pulmonary responses to *Escherichia coli* endotoxin, 295
- BARKER, J.L., MCBURNEY, R.N. & MATHERS, D.A. Convulsant-induced depression of amino acid responses in cultured mouse spinal neurones studied under voltage clamp, 619
- BARKER, L.A. & HOUGH, L.B. Selectivity of 4-methyl-histamine at H₁ and H₂-receptors in guinea-pig isolated ileum, 65
- BEETENS, J.R. & HERMAN, A.G. Vitamin C increases the formation of prostacyclin by aortic rings from various species and neutralizes the inhibitory effect of 15-hydroperoxy-arachidonic acid, 249
- BENFEY, B.G., VARMA, D.R. & YUE, T.L. Myocardial inotropic responses and adrenoceptors in protein-deficient rats, 527

- BENHAM, C.D. & BOLTON, T.B. Comparison of the excitatory actions of substance P, carbachol, histamine and prostaglandin F_{2α} on the smooth muscle of the taenia of guinea-pig caecum, 409
- BENVENISTE, J., BOULLET, C., BRINK, C. & LABAT, C. The action of Paf-acether (platelet activating factor) on guinea-pig isolated heart preparations, 81
- BIRDSALL, N.J.M., BURGEN, A.S.V., HULME, E.C. & WONG, E.H.F. The effects of *p*-chloromercuribenzoate on muscarinic receptors in the cerebral cortex, 187
- , The effect of *p*-chloromercuribenzoate on structure-binding relationships of muscarinic receptors in the rat cerebral cortex, 197
- BLACKMAN, J.G. & MCCAIG, D.J. Studies on an isolated innervated preparation of guinea-pig trachea, 703
- BOKISCH, A.J. & WALKER, R.J. Interactions between alinidine and responses to acetylcholine, dopamine and 5-hydroxytryptamine of specific *Helix* central neurones, 567
- BOLTON, T.B. *see* BENHAM, C.D., 409
- BORKOWSKI, K.R. & QUINN, P. The effect of bilateral adrenal demedullation on vascular reactivity and blood pressure in spontaneously hypertensive rats, 429
- BOSCHI, G., NOMOTO, T. & RIPS, R. Thyrotropin releasing hormone-induced hyperthermia in mice: possible involvement of adrenal and pituitary glands, 229
- BOULLET, C. *see* BENVENISTE, J., 81
- BRINK, C. *see* BENVENISTE, J., 81
- BURGEN, A.S.V. *see* BIRDSALL, N.J.M., 187
- , *see* BIRDSALL, N.J.M., 197
- BURGEN, A.S.V. & HARBIRD, C.J. The effect of sulphydryl block on the binding of H₁-antagonists to the muscarinic receptor, 600
- BUTCHER, S.P., COLLINS, J.F. & ROBERTS, P.J. Characterization of the binding of DL-[³H]-2-amino-4-phosphonobutyrate to L-glutamate-sensitive sites on rat brain synaptic membranes, 355

C

- CALAM, J., DIMALINE, R., PEART, W.S. & UNWIN, R. Studies on the renin response to vasoactive intestinal polypeptide (VIP) in the conscious rabbit, 13
- CAMP, R.D.R., COUTTS, A.A., GREAVES, M.W., KAYE, A.B. & WALPORT, M.J. Responses of human skin to intradermal injection of leukotrienes C₄, D₄ and B₄, 479
- CAMPBELL, T.J. Importance of physico-chemical properties in determining the kinetics of the effects of Class I antiarrhythmic drugs on maximum rate of depolarization in guinea-pig ventricle, 33

- CANFIELD, S.P. & CURWAIN, B.P. Gastric juice electrolyte secretion in conscious dogs with gastric fistulae and its modification by FPL 52694, a mast cell stabilizing agent, 451
- , Inhibition of gastric acid secretion in the conscious dog by the mast-cell stabilizing agent, FPL 52694, 27
- CAPARROTTA, L., FASSINA, G., GAION, R.M. & TESSARI, F. Age related changes in the antilipolytic effects of nicotinic acid in rat adipose tissue, 663
- CHAHN, L.A. Contraction of guinea-pig ileum on withdrawal of methionine⁵-enkephalin is mediated by substance P, 741
- CHURCH, M.K., HOLTAGE, S.T. & HUGHES, P.J. Adenosine inhibits and potentiates IgE-dependent histamine release from human basophils by an A₂-receptor mediated mechanisms, 719
- CLARK, A.L., HOBIGER, F. & TERRAR, D.A. Effects of pancuronium and hexamethonium on paraoxon-induced twitch potentiation and antidromic firing in rat phrenic nerve diagram preparations, 489
- , The relationship between stimulus-induced antidromic firing and twitch potentiation produced by paraoxon in rat phrenic nerve-diaphragm preparations, 17
- CLARKE, K.A. & STIRK, G. Motoneurone excitability after administration of thyrotropin releasing hormone analogue, 553
- CLARKE, P.B.S. & KUMAR, R. Characterization of the locomotor stimulant action of nicotine in tolerant rats, 587
- COATES, J. & WEETMAN, D.F. Demonstration of α_{1S} -adrenoceptors after exposure of the rat anococcygeus to benextramine, 343
- COATS, R.A. Effects of apamin on α -adrenoceptor-mediated changes in plasma potassium in guinea-pigs, 573
- COHEN, R.M. *see* AULAKH, C.S., 10
- COLLINS, S.P. *see* BUTCHER, S.P., 355
- COREY, E.J. *see* AUSTEN, K.F., 47
- COUPAR, I.M. Characterization of the opiate receptor population mediating inhibition of VIP-induced secretion from the small intestine of the rat, 371
- COUTTS, A.A. *see* CAMP, R.D.R., 479
- CURWAIN, B.P. *see* CANFIELD, S.P., 27
- , *see* CANFIELD, S.P., 451
- concentrations of *m*-tyramine and α -methyl-*m*-tyramine in rat striatum, 309
- DOWNING, O.A., WILSON, K.A. & WILSON, V.G. Non-competitive antagonism of the α -adrenoceptor-mediated fast component of contraction of rat aorta, by doxazosin and prazosin, 315
- DRAZEN, J.M. *see* AUSTEN, K.F., 47
- DRAZEN, J.M., LACOUTURE, P.G. & MILLER, M.J. Inhibition by propranolol of the contractile response of the rat diaphragm to tetanic field stimulation *in vitro*, 613
- DUKES, I.D. & VAUGHAN WILLIAMS, E.M. Hypoxia-induced cardiac hypertrophy in rabbits treated with verapamil and nifedipine, 241
- DUFFIELD, A.M. *see* DOUGAN, D.F.H., 309
- DUFFIELD, P.H. *see* DOUGAN, D.F.H., 309
- ### E
- EDVINSSON, L. & FREDHOLM, B.B. Characterization of adenosine receptors in isolated cerebral arteries of cat, 631
- ELLIOTT, J., JHAMANDAS, K., NOTMAN, H. & SUTAK, M. Antagonism of enkephalin action on acetylcholine release by methylxanthines: lack of purine link, 727
- EYRE, P. *see* ALEXANDER, D.L., 7
- ### F
- FASSINA, G. *see* CAPARROTTA, L., 663
- FINET, M., GODFRAIND, T. & NOEL, F. The inotropic effect of ouabain and its antagonism by dihydro-ouabain in rat isolated atria and ventricles in relation to specific binding sites, 751
- FOLKERTS, G., NIJKAMP, F.P. & VAN OOSTERHOUT, A.J.M. Induction in guinea-pigs of airway hyper-reactivity and decreased lung β -adrenoceptor number by 15-hydroperoxy-arachidonic acid, 597
- FOSTER, P.S., GOLDIE, R.G., PATERSON, J.W. & SPINA, D. Effect of hyperthermia on β_1 -adrenoceptor-mediated relaxation of pig bronchus, 699
- FOSTER, R.W., SMALL, R.C. & WESTON, A.H. The spasmogenic action of potassium chloride in guinea-pig trachealis, 553
- FREDHOLM, B.B. *see* EDVINSSON, L., 631
- FREDHOLM, B.B. & SANDBERG, G. Inhibition by xanthine derivatives of adenosine receptor-stimulated cyclic adenosine 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes, 639
- FRENCH, A.M. & SCOTT, N.C. The use of neurally released agonist in the measurement of antagonism at α -adrenoceptors, 655
- FRESLON, J.L. & GUIDICELLI, J.F. Compared myocardial and vascular effects of captopril and dihydralazine during hypertension development in spontaneously hypertensive rats, 533
- FUJISAWA, K. Effects of new α -adrenoceptor blocking agent, ethyl-7-[4-(2-methoxyphenyl)-1-piperazinyl] heptanoate dihydrochloride (SGB-483), on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- ### D
- DEVANE, J. & RYAN, M.P. Dose-dependent reduction in renal magnesium clearance by amiloride during frusemide-induced diuresis in rats, 421
- DI NICOLANTONIO, R., HUTCHINSON, J.S., TAKATA, Y. & VERONI, M. Captopril potentiates the vasodepressor action of Met-enkephalin in the anaesthetized rat, 405
- DIMALINE, R. *see* CALAM, J., 13
- DOXEY, J.C., GADIE, B., LANE, A.C. & TULLOCH, I.F. Evidence for pharmacological similarity between α_2 -adrenoceptors in the vas deferens and central nervous system of the rat, 155
- DOUGAN, D.F.H., DUFFIELD, A.M., DUFFIELD, P.H. & WADE, D.N. The effects of (+)-amphetamine, α -methyltyrosine, and α -methylphenylalanine on the

G

- GADIE, B. *see* DOXEY, J.C., 155
 GAION, R.M. *see* CAPARROTTA, L., 663
 GAION, R.M. & TRENTO, M. The role of prostacyclin in modulating cholinergic neurotransmission in guinea-pig ileum, 279
 GENT, J.P. & WACEY, T.A. The effects of chlor-methiazole on single unit activity in rat brain; interactions with inhibitory and excitatory neurotransmitters, 429
 GILBERT, R.J. Studies in rabbits on the disposition and trypanocidal activity of the anti-trypanosomal drug, diminazine aceturate (Berenil), 133
 GILLESPIE, J.S. & MACRAE, I.M. The contractile response to and the release of noradrenaline by transmural nerve stimulation in the guinea-pig vas deferens and a comparison with the response to noradrenaline, 477
 GLOVER, V., PYCOCK, C.J. & SANDLER, M. Tyramine-induced noradrenaline release from rat brain slices: prevention by (-)-deprenyl, 141
 GODFRAIND, T. *see* FINET, M., 751
 GODFRAIND, T., MILLER, R.C. & LIMA, J.S. Effects of yohimbine, rauwolfscine and corynanthine on contractions and calcium fluxes induced by depolarization and prostaglandin F_{2α} in rat aorta, 115
 GOLDIE, R.G. *see* BERTRAM, J.F., 107
 —, *see* FOSTER, P.S., 699
 GORDON, J.L. & MARTIN, W. Stimulation of endothelial prostacyclin production plays no role in endothelium-dependent relaxation of the pig aorta, 179
 GORDON, V.P. *see* ALEXANDER, D.L., 7
 GRAY, P.T.A. & RANG, H.P. Analysis of current noise evoked by nicotinic agonists in rat submandibular ganglion neurones, 235
 GREAVES, M.W. *see* CAMP, R.D.R., 479
 GREEN, A.R., HEAL, D.J., JOHNSON, P., LAURENCE, B.E. & NIMGAONKAR, V.L. Antidepressant treatments: effects in rodents on dose-response curves of 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-HT₂ receptor number in frontal cortex, 377
 GREEN, A.R., JOHNSON, P. & NIMGAONKAR, V.L. Increased 5-HT₂ receptor number in brain as a probable explanation for the enhance 5-hydroxytryptamine mediated behaviour following repeated electroconvulsive shock administration to rats, 173
 GRIFFITHS, R.J. & MOORE, P.K. Conversion of prostacyclin to 6-oxo prostaglandin E₁ by rat, rabbit, guinea-pig and human platelets, 395
 GUIDICELLI, J.F. *see* FRELSON, J.L., 533

H

- HÄGGBLAD, J. & HEILBRONN, E. Release of acetylcholine at the motor endplate of the rat—evidence against a muscarinic acetylcholine autoreceptor, 471
 HARBIRD, C.J. *see* BURGESS, A.S.V., 600
 HARRISON, N.L. & SIMMONDS, M.A. Two distinct interactions of barbiturates and chlormethiazole with GABA_A receptor complex in rat cuneate nucleus *in vitro*, 387

- HEAL, D.J. *see* GREEN, A.R., 377
 HEILBRONN, E. *see* HÄGGBLAD, J., 471
 HEITZ, A., SCHWARTZ, J. & VELLY, J. β -Adrenoceptors of the human myocardium: determination of β_1 and β_2 sub-types by radioligand binding, 711
 HERMAN, A.G. *see* BEETENS, J.R., 249
 HOBBIGER, F. *see* CLARK, A.L., 17
 —, *see* CLARK, A.L., 489
 HOLGATE, S.T. *see* CHURCH, M.K., 719
 HOUGH, L.B. *see* BARKER, L.A., 65
 HUGHES, P.J. *see* PHJ., 719
 HUGHES, P.R. & STONE, T.W. Inhibition by purine of the inotropic action of isoprenaline in rat atria, 149
 HUIDOBRO-TORO, J.P. & YOSHIMURA, K. Pharmacological characterization of the inhibitory effects of neurotensin on the rabbit ileum myenteric plexus preparation, 645
 HULME, E.C. *see* BIRDSALL, N.J.M., 187
 —, *see* BIRDSALL, N.J.M., 197
 HUTCHINSON, J.S. *see* DINICHOLOANTONIO, R., 405

I

- INOUE, T., ITO, Y. & TAKEDA, K. The effects of 2-nicotinamidoethyl nitrate on smooth muscle cells of the dog mesenteric artery and trachea, 459
 ITO, Y. *see* INOUE, T., 459

J

- JHAMANDAS, K. *see* ELLIOTT, J., 727
 JOHNSON, P. *see* GREEN, A.R., 173
 —, *see* GREEN, A.R., 377
 JUNOD, A.F. *see* BACH-DIETERLE, Y., 603
 HOLDEN, W.E. *see* BACH-DIETERLE, Y., 603
 JUORIO, A.V. & McQUADE, P.S. Effects of various antipsychotic drugs upon the striatal concentration of *p*-hydroxyphenylacetic acid and *m*-hydroxyphenylacetic acid in the mouse, 581

K

- KARAKI, H., MURAKAMI, K., NAKAGAWA, H. & URAKAWA, N. The inhibitory effects of N²-dansyl-L-arginine-4-*t*-butylpiperidine amide, TI 233 on contraction of vascular and intestinal smooth muscle, 519
 KAYE, A.B. *see* CAMP, R.D.R., 479
 KODAMA, I., KONDO, N. & SHIBATA, S. Effects of amrinone on the transmembrane action potential of rabbit sinus node pacemaker cells, 511
 KOJIMA, M. *see* AKASU, T., 123
 KOKETSU, K. *see* AKASU, T., 123
 KONDO, N. *see* KODAMA, I., 511
 KONNO, S. & TSURUFUNI, S. Induction of zymosan-airpouch inflammation in rats and its characterization with reference to the effects of anticomplementary and anti-inflammatory agents, 269
 KUMAR, R. *see* CLARKE, P.B.S., 587

L

- LABAT, C. *see* BENVENISTE, J., 81
 LACOUTURE, P.G. *see* DRAZEN, J.M., 613
 LANDRY, Y. *see* AMELLAL, M., 365
 LANE, A.C. *see* DOXEY, J.C., 155
 LAURENCE, B.E. *see* GREEN, A.R., 377
 LEITCH, A.G. *see* AUSTEN, K.F., 47
 LETTS, L.G., RICHARDSON, D.P., TEMPLE, D.M. & WILLIAMS, L.R. The selectivity of β -adrenoceptor antagonists on isoprenaline-induced changes in heart rate, blood pressure, soleus muscle contractility and airways function in anaesthetized cats, 323
 LIM, S.P. & MUIR, T.C. Microelectrode recording of the effects of agonists and antagonists on α -adrenoceptors on rat somatic nerve terminals, 41
 LIMA, J.S. *see* GODFRAIND, T., 107

M

- McBURNIE, R.N. *see* BARKER, J.L., 619
 MCCAIG, D.J. *see* BLACKMAN, J.G., 703
 MCLELLAN, C. *see* AULAKH, C.S., 10
 MCQUADE, P.S. *see* JUORIO, A.V., 581
 McQUEEN, D.S. & RIBEIRO, J.A. On the specificity and type of receptor involved in carotid body chemoreceptor activation by adenosine in the cat, 347
 MACRAE, I.M. *see* GILLESPIE, J.S., 477
 MAEDA-HAGIWARA, M., WATANABE, H. & WATANABE, K. Enhancement by intracerebroventricular thyrotropin-releasing hormone of indomethacin-induced gastric lesions in the rat, 735
 MAKITA, Y. Effects of adrenoceptor agonists and antagonists on smooth muscle cells and neuromuscular transmission in guinea-pig renal artery and vein, 671
 MARTIN, W. *see* AGER, A., 5
 —, *see* GORDON, J.L., 179
 MATHERS, D.A. *see* BARKER, J.L., 619
 MERICAN, Z., NOTT, M.W. & SUNBHANICH, M. Effects of increasing the frequency of twitches and of isoprenaline on maximal twitches and cyclic AMP levels in slow- and fast-contracting cat skeletal muscles, 303
 MILENOV, E., NIEBER, K., NIEDRICH, H., OEHME, P. & VOGT, W.-E. Effect of desaminocholecystokinin-octapeptide (CCK-7) on the intraluminal pressure and myoelectrical activity of the gallbladder, stomach and small intestine in conscious dogs, 681
 MILLER, M.J. *see* DRAZEN, J.M., 613
 MILLER, R.C. *see* GODFRAIND, T., 107
 MITCHELL, H.W. Indomethacin enhances the effect of histamine on airways resistance in the anaesthetized guinea-pig, 287
 MOORE, P.K. *see* GRIFFITHS, R.J., 395
 MORLEY, J., PAGE, C.P. & PAUL, W. Inflammatory actions of platelet activating factor (Paf-acether) in guinea-pig skin, 503
 MUIR, T.C. *see* LIM, S.P., 41
 MURAKAMI, K. *see* KARAKI, H., 519
 MURPHY, D.L. *see* AULAKH, C.S., 10

N

- NADLER, J.V. *see* AULT, B., 211
 NAKAGAWA, H. *see* KARAKI, H., 519
 NAYLER, R.A. & SPARROW, M.P. Mechanism of vanadate-induced contraction of airways smooth muscle of the guinea-pig, 163
 NETO, F.R. Effects of cyproheptadine on electrophysiological properties of isolated cardiac muscle of dogs and rabbits, 335
 NIEBER, K. *see* MILENOV, E., 681
 NIEDRICH, H. *see* MILENOV, E., 681
 NIJKAMP, F.P. *see* FOLKERTS, G., 597
 NIMGOANKAR, V.L. *see* GREEN, A.R., 173
 —, *see* GREEN, A.R., 377
 NISHI, K. & OYAMA, Y. Barbiturates increase the rate of voltage-dependent inactivation of the calcium current in snail neurones, 761
 NOEL, F. *see* FINET, M., 751
 NOMOTO, T. *see* BOSCHI, G., 229
 NORTH, R.A. & WILLIAMS, J.T. Opiate activation of potassium conductance inhibits calcium action potentials in rat locus coeruleus neurones, 225
 NORTHOVER, B.J. A comparison of the electrophysiological actions of phentolamine with those of some other antiarrhythmic drugs on tissues isolated from the rat heart, 85
 NOTMAN, H. *see* ELLIOTT, J., 727
 NOTT, M.W. *see* MERICAN, Z., 303
 NOVELLI, E.L.B., OSHIRO, M.E.M., PAIVA, A.C.M. & PAIVA, T.B. Effects of sodium and calcium concentrations on the potentiation by indomethacin of the responses of rabbit mesenteric and coeliac arteries to vasoconstrictor agonists, 445

O

- OEHME, P. *see* MILENOV, E., 681
 OSHIRO, M.E.M. *see* NOVELLI, E.L.B., 445
 OYAMA, Y. *see* NISHI, K., 761

P

- PAGE, C.P. *see* MORLEY, J., 503
 PAIVA, A.C.M. *see* NOVELLI, E.L.B., 445
 PAIVA, T.B. *see* NOVELLI, E.L.B., 445
 PAPADIMITRIOU, J.M. *see* BERTRAM, J.F., 107
 PARRATT, J.R. *see* BALL, H.A., 295
 PARRATT, J.R. & UDVARY, E. The effect of exaprolol (MG8823) on epicardial ST-segment changes in a feline model of acute myocardial ischaemia, 95
 PATERSON, J.W. *see* BERTRAM, J.F., 107
 —, *see* FOSTER, P.S., 699
 PAUL, W. *see* MORLEY, J., 503
 PEART, W.S. *see* CALAM, J., 13
 PERKINS, M.N. & STONE, T.W. *In vivo* release of ^3H -purines by quinolinic acid and related compounds, 263
 PESKAR, B.A. *see* AEHRINGHAUS, U., 73
 PYCOCK, C.J. *see* GLOVER, V., 141
 PUURUNEN, J. Central nervous system effects of arachidonic acid, PGE_2 , $\text{PGF}_{2\alpha}$, PGD_2 and PGI_2 on gastric secretion in the rat, 255

Q

QUINN, P. *see* BORKOWSKI, K.R., 429

R

RANG, H.P. *see* GRAY, P.T.A., 235
 RIBEIRO, J.A. *see* McQUEEN, D.S., 347
 RICHARDSON, D.P. *see* LETTS, L.G., 323
 RIPS, R. *see* BOSCHI, G., 229
 ROBERTS, P.J. *see* BUTCHER, S.P., 355
 RODGER, I.W. *see* BALL, H.A., 295
 RYAN, M.P. *see* DEVANE, J., 421

S

SANDBERG, G. *see* FREDHOLM, B.B., 639
 SANDLER, M. *see* GLOVER, V., 141
 SCHWARTZ, J. *see* HEITZ, A., 711
 SCOTT, N.C. *see* FRENCH, A.M., 655
 SHIBATA, S. *see* KODAMA, I., 511
 SIMMONDS, M.A. *see* HARRISON, N.L., 387
 SMALL, R.C. *see* FOSTER, R.W., 553
 SPARROW, M.P. *see* NAYLER, R.A., 163
 SPEDDING, M. Functional interactions of calcium-antagonists in K⁺-depolarized smooth muscle, 485
 SPINA, D. *see* FOSTER, P.S., 699
 STIRK, G. *see* CLARKE, K.A. 553
 STONE, T.W. *see* HUGHES, P.R., 149
 —, *see* PERKINS, M.N., 263
 SUNBHANICH, M. *see* MERICAN, Z., 303
 SUTAK, M. *see* ELLIOTT, J., 727

T

TAKATA, Y. *see* DI NICOLANTONIO, R., 405
 TAKEDA, K. *see* INOUE, T., 459
 TEMPLE, D.M. *see* LETTS, L.G., 323
 TERRAR, D.A. *see* CLARK, A.L., 17
 —, *see* CLARK, A.L., 489
 TESSARI, F. *see* CAPARROTTA, G., 663
 TRENTO, M. *see* GAION, R.M., 279
 TSURUFUNI, S. *see* KONNO, S., 269
 TULLOCH, I.F. *see* DOXEY, J.C., 155

U

UDVARY, E. *see* PARRATT, J.R., 95
 UNWIN, R. *see* CALAM, J., 13

V

VAN OOSTERHOUT, A.J.M. *see* FOLKERTS, G., 597
 VARMA, D.R. *see* BENFEY, B.G., 527
 VAUGHAN WILLIAMS, E.M. *see* DUKES, I.D., 241
 VELLY, J. *see* HEITZ, A., 711
 VERONI, M. *see* DI NICOLANTONIO, R., 405
 VOGT, W.-E. *see* MILENOV, E., 681

W

WACEY, T.A. *see* GENT, J.P., 429
 WADE, D.N. *see* DOUGAN, D.F.H., 309
 WALKER, R.J. *see* BOKISCH, A.J., 567
 WALPORT, N.J. *see* CAMP, R.D.R., 479
 WATANABE, K. *see* MAEDA-HAGIWARA, M., 735
 WATANABE, M. *see* MAEDA-HAGIWARA, M., 735
 WATSON, S.P. Pharmacological characterization of substance P antagonist, [D-Arg¹, D-Pro², D-Trp^{7,9}, Leu¹¹]-substance P, 205
 WEETMAN, D.F. *see* COATES, J., 343
 WESTON, A.H. *see* FOSTER, R.W., 553
 WHITTLE, B.J.R. The potentiation of taurocholate-induced rat gastric erosions following parenteral administration of cyclo-oxygenase inhibitors, 545
 WILLIAMS, J.T. *see* NORTH, R.A., 225
 WILLIAMS, L.R. *see* LETTS, L.G., 323
 WILSON, K.A. *see* DOWNING, O.A., 315
 WILSON, V.G. *see* DOWNING, O.A., 315
 WITTENBERG, H.R. *see* AEHRINGHAUS, U., 73
 WÖBLING, R.H. *see* AEHRINGHAUS, U., 73
 WONG, E.H.F. *see* BIRDSALL, N.J.M., 187
 —, *see* BIRDSALL, N.J.M., 197
 WRIGGLESWORTH, S.J. Heterogeneity of 5-hydroxytryptamine receptors in the rat uterus and stomach strip, 691

Y

YOSHIMURA, K. *see* HUIDOBRO-TORO, J., 645
 YUE, T.L. *see* BENFEY, B.G., 527

SUBJECT INDEX

A

- A23187**, effect on rubidium efflux from freshly isolated pig aortic endothelial cells, 5
- , stimulation of prostacyclin release in pig aortic endothelial cells, 179
 - , transportation of lanthanides across plasma membranes of rat mast cells, 365
- Acetylcholine**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- , antagonism by methylxanthines of enkephalin action on release, 727
 - , contractile responses evoked in rabbit coeliac and mesenteric arteries, effect of sodium and calcium concentrations, 445
 - , effect of prostacyclin on concentration in guinea-pig ileum in the presence of tetrodotoxin, 279
 - , lack of stimulation of prostacyclin release in pig aortic endothelial cells, 179
 - , release at the motor endplate of the rat, evidence against a muscarinic acetylcholine receptor, 471
 - , responses of *Helix aspersa* central neurones, effect of alinidine, 567
 - , responses to, effect of chlormethiazole on single unit activity in rat brain, 439
 - , role in the initiation of antidromic firing in rat phrenic nerve-diaphragm preparation, 17
 - , spasmogenic action in guinea-pig trachealis, 553
- Acetylcholine antagonists**, actions at motor endplates and autonomic ganglia in rat phrenic nerve diaphragm, 489
- Action potentials**, effect of antiarrhythmic drugs on rate of depolarization in guinea-pig ventricle, 33
- , transmembrane, effect of amrinone in rabbit sinus node pacemaker cells, 511
- Adenine**, effect on pig isolated tracheal muscle, 603
- Adenosine**, activation of carotid body chemoreceptor in the cat, specificity and type of receptor, 347
- , effect on pig isolated tracheal muscle, 603
 - , effect on IgE-dependent histamine release from human basophils by an A₂-receptor mediated mechanism, 719
 - , effect on prostaglandin F_{2α}-induced contraction of cat isolated cerebral arteries, 631
 - , inhibition of inotropic action of isoprenaline in rat atria, 149
- Adenosine 3',5' monophosphate**, 8-Br-cyclic, effect on release of endogenous acetylcholine at motor endplate of the rat, 471
- , cyclic, effect of adenosine analogues on accumulation in cat isolated cerebral arteries, 631
 - , cyclic, effect of adenosine on levels in human basophils, 719
 - , cyclic, effect of increasing frequency of twitches and of isoprenaline in slow- and fast-contracting cat skeletal muscle, 303
 - , cyclic, effects of xanthine derivatives on adenosine receptor-stimulated accumulation in rat and guinea-pig thymocytes, 639
- Adenosine receptors**, characterization in cat isolated cerebral arteries, 631
- , specificity and type in cat carotid sinus nerve, 347
 - , stimulation of cyclic 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes, effects of xanthine derivatives, 639
- Adenosine A₂-receptor**, mediation of IgE-dependent histamine release from human basophils, 719
- Adenosine triphosphatase receptors**, loss from cultures of pig aortic endothelial cells, 5
- Adenosine triphosphate**, effect of TI 233 in resting and potassium-stimulated aorta and taenia coli, 519
- , effect on pig isolated tracheal muscle, 603
 - , effect on ⁸⁶rubidium efflux from freshly isolated pig aortic endothelial cells, 5
 - , inhibitory actions on rabbit ileum myenteric plexus preparation, 645
 - , production of spontaneous chemoreceptor discharge in carotid sinus nerve of the cat, 347
 - , stimulation of prostacyclin release in pig aortic endothelial cells, 179
- Adenosine triphosphate analogues**, depression of chemoreceptor discharge in cat carotid sinus nerve, 347
- Adipose tissue**, rat, age-related changes in the antilipolytic effects of nicotinic acid, 663
- Adrenal demedullation**, effect on thyrotropin releasing hormone-induced hyperthermia and raised plasma catecholamine levels in mice, 229
- , effect on vascular reactivity and blood pressure in spontaneously hypertensive rats, 429
- Adrenal glands**, mouse, involvement in thyrotropin releasing hormone induction of hyperthermia, 229
- Adrenaline**, comparison of electrophysiological actions with those of phentolamine on tissue isolated from rat heart, 85
- , contractile responses evoked in coeliac and mesenteric arteries of rabbit, effect of sodium and calcium concentrations, 445
 - , induction of changes in plasma potassium, effects of apamin in guinea-pigs, 573
 - , inhibitory actions on rabbit ileum myenteric plexus preparation, 645
 - , possible role in sympathetic neurotransmitter release in spontaneously hypertensive rats, 429
 - , thyrotropin releasing hormone-induced increased plasma levels in mice, 229
- Adrenoceptor affinity**, unaffected in protein-deficient rats, 527
- α-Adrenoceptor agonists**, responses of spontaneously

- hypertensive rats, effect of bilateral demodulation, 429
- β -Adrenoceptor agonist**, effect on dose-response curves of 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-hydroxytryptamine₂-receptor number in frontal cortex, 377
- , possible mediation of effects by cyclic adenosine 3',5'-monophosphate in slow- and fast-contracting cat skeletal muscles, 303
- α -Adrenoceptor antagonists**, comparison of electrophysiological actions on isolated tissue from rat heart, 85
- , effect on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- , mediation of fast component of contraction of rat aorta, antagonism by doxazosin and prazosin, 315
- β -Adrenoceptor antagonists**, effect on epicardial ST-segment changes in a feline model of acute myocardial ischaemia, 95
- , effect on isoprenaline-induced changes in heart rate, blood pressure, soleus muscle contractility and airways function in anaesthetized cats, 323
- Adrenoceptors**, effect of protein-calorie malnutrition on numbers in left atria of rats, 527
- α -Adrenoceptors**, measurement of antagonistic activity of drugs in rat vas deferens, 655
- , mediation of changes in plasma potassium in guinea-pigs, effect of apamin, 573
- , microelectrode recording of the effects of agonists and antagonists on rat somatic nerve terminals, 41
- α_1 -Adrenoceptors**, location in renal artery of the guinea-pig, 671
- α_{1A} -Adrenoceptors**, demonstration in rat anococcygeus muscle after exposure to benextramine, 343
- α_2 -Adrenoceptors**, correlation of changes in number with locomotor responses to clonidine following discontinuation of clorgyline treatment in rats, 10
- , location in renal vein of the guinea-pig, 671
- , pharmacological similarities between those in rat vas deferens and central nervous system, 155
- β -Adrenoceptors**, investigation in human myocardium using ¹²⁵I-iodocyanopindolol as a ligand, 711
- , reduction of number in guinea-pig lung by 15-hydroperoxy-arachidonic acid, 597
- , role in heart rate response to vasoactive intestinal polypeptide, 13
- β_1 -Adrenoceptors**, mediation of relaxation of pig bronchus, effect of hyperthermia, 699
- Aerobic metabolism**, inhibition by TI 233, 519
- Age**, effect on antipolytic effects of nicotinic acid in rat adipose tissue, 663
- Air-pouch inflammation**, induction by zymosan as model for quantitative studies, 269
- Airway reactance**, effect of β -adrenoceptor antagonists on isoprenaline-induced changes in anaesthetized cats, 323
- Airway resistance**, effect of indomethacin on histamine-induced increased in guinea-pig, 287
- , endotoxin-induced, effect of ketanserin in cats, 295
- Airways**, induction of hyperreactivity by 15-hydroperoxy-arachidonic acid in guinea-pigs, 597
- Alinidine**, effect on responses of *Helix aspersa* central neurones to acetylcholine, dopamine and 5-hydroxytryptamine, 567
- Alveolar tissue**, effect of proportion in lung strips on responses to 5-hydroxytryptamine and noradrenaline, 107
- Amidephrine**, induction of changes in plasma potassium, effects of apamin in guinea-pigs, 573
- Amiloride**, effect on magnesium clearance during frusemide-induced diuresis in rats, 421
- 2-Amino-7-phosphono-heptanoic acid**, effect on N-methyl-D-aspartic acid- and quinolate-induced release of ³H-purines from rat cortex, 263
- 2-Amino-4-phosphonobutyrate**, characterization of binding to L-glutamate-sensitive sites on rat brain synaptic membranes, 355
- γ -Aminobutyric acid**, membrane current responses in mouse spinal neurones, 619
- , responses to, effects of chlormethiazole on single unit activity in rat brain, 439
- γ -Aminobutyric acid_A receptors**, interactions with barbiturates and chlormethiazole in rat cuneate nucleus *in vitro*, 387
- Aminophylline**, effect on anaphylactic reactivity of bovine bronchial artery *in vitro*, 7
- Amitriptyline**, effect on responses to 5-hydroxytryptamine in rat uterus and stomach strip, 691
- (+)-Amphetamine**, effect on *m* and *p* isomers of tyramine and α -methyltyramine concentrations in rat brain, 309
- Amrinone**, effects on the transmembrane action potential of rabbit sinus node pacemaker cells, 511
- Anaphylaxis**, contraction of bovine bronchial artery *in vitro*, 7
- Angiotensin II**, contractile responses of coeliac and mesenteric arteries in rabbits, effect of sodium and calcium concentrations, 445
- Anococcygeus muscle**, rat, demonstration of α_{1S} -adrenoceptors after exposure to benextramine, 343
- Antiallergic drugs**, effect on contraction of bovine bronchial artery *in vitro*, 7
- Antiarhythmic drugs**, comparison of electrophysiological actions with those of phentolamine on tissue isolated from rat heart, 85
- , effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- Anticomplementary agents**, quantitative studies using zymosan-air-pouch inflammation in rats, 269
- Anticonvulsant drugs**, effect on single unit activity in rat brain, 439
- Antidepressant treatments**, effect on dose-response curves of 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-hydroxytryptamine₂ receptor number in frontal cortex, 377
- Antidromic firing**, effects of pancuronium and hexamethonium in rat phrenic nerve-diaphragm preparations, 489
- , stimulus-induced, in relation to paraoxon-induced twitch potentiation in rat phrenic nerve-diaphragm preparations, 17
- Anti-inflammatory agents**, quantitative studies using zymosan-air-pouch inflammation in rats, 269
- Aorta**, pig, lack of effect of stimulation of endothelial prostacyclin production on endothelium-dependent relaxation, 179
- , pig, loss of receptor-mediated ⁸⁶Rubidium efflux from endothelial cells in culture, 5
- Aortic rings**, rat, rabbit and guinea-pig, vitamin C increases

- the formation of prostacyclin and neutralizes the inhibitory effect of 15-hydroperoxy-arachidonic acid, 249
- Apamin**, effects on α -adrenoceptor-mediated changes in plasma potassium in guinea-pigs, 573
- , effect on potency of neurotensin in relaxing rabbit ileum, 645
- Apomorphine**, microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- [³H]-arachidonate**, induction of release from pig aortic endothelial cells, 179
- Arachidonic acid**, effect on gastric secretion in rats, 255
- Aspirin**, effect on taurocholate-induced rat gastric erosions, 545
- , induction of gastric lesion, effect of thyrotropin releasing hormone in rats, 735
- , lack of effect on endothelium-dependent relaxation of pig aortic cells, 179
- Atenolol**, effect on diaphragmatic force development in rats, 613
- , effect on isoprenaline-induced changes in blood pressure, heart rate, soleus muscle contractility and airways function in anaesthetized cats, 323
- Atria**, rat, inotropic effect of ouabain and its antagonism by dihydroouabain, 751
- Atrial receptors**, characterization, 149
- Atropine**, effect on cardiac depressant effects of purines in rat atria, 149
- , effect on isolated innervated preparation of guinea-pig trachea, 703
- , effect on potassium chloride evoked spasm of guinea-pig trachealis, 553
- , effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- , effect on release of endogenous acetylcholine at motor endplate of the rat, 471
- , effect on thyrotropin releasing hormone-enhancement of indomethacin-induced gastric lesions in rats, 735
- , effect on vanadate-induced contractions of guinea-pig airway smooth muscle, 163
- , effect on washout contracture of guinea-pig ileum after contact with Met-enkephalin, 741
- ## B
- Baclofen**, effects on synaptically-induced cell firing in the rat hippocampal slice, 211
- Barbitone**, effects on calcium current in snail neurones, 761
- Barbiturates**, effects on rate of voltage-dependent inactivation of calcium current in snail neurones, 761
- , interactions with GABA_A receptor complex in rat cuneate nucleus *in vitro*, 387
- Basophils**, human, effect of adenosine on histamine release mediated by A₂-receptor mechanisms, 719
- Benextramine**, effect on actions of Sgd 101/75 on α -adrenoceptors of rat anococcygeus muscle, 343
- Berenil**, disposition and trypanocidal activity in rabbits, 133
- Betaxolol**, inhibition of ¹²⁵Iodocyanopindolol binding in human myocardium, 711
- Bethanechol**, effect on gastric mucosa in intact or indomethacin-treated rats, 735
- Bicuculline**, antagonism of responses of GABA_A receptor complex in rat cuneate nucleus to muscimol *in vitro*, 387
- , effect on depressant action of (–)-baclofen, 211
- , effect on membrane current responses to γ -aminobutyric acid in mouse spinal neurones, 619
- Binding sites**, in rat atria and ventricles, 751
- Blood flow**, coronary, effect of Paf-acether in guinea-pig isolated heart, 81
- Blood pressure**, effect of β -adrenoceptor antagonists on isoprenaline-induced changes in anaesthetized cats, 323
- , effect of bilateral demedullation in spontaneously hypertensive rats, 429
- , effect of captopril in spontaneously hypertensive rats, 405
- Body weight**, effect of protein-deficient diet in rats, 527
- Bradykinin**, effect on ⁸⁶Rubidium efflux from freshly isolated pig aortic endothelial cells, 5
- , stimulation of prostacyclin release in pig aortic endothelial cells, 179
- Bradykinin receptors**, loss from cultures of pig aortic endothelial cells, 5
- β -Bungarotoxin**, effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- (+)-Butaclamol**, effect on striatal concentrations of *p*- and *m*-hydroxyphenylacetic acid in the mouse, 581
- Butoxamine**, effect on isoprenaline-induced changes in blood pressure, heart rate, soleus muscle contractility and airways function in anaesthetized cats, 323
- BW755c**, effect of pretreatment with, on histamine-induced increase in airway resistance in guinea-pig, 287
- , effect on acid-taurocholate-induced gastric damage in rats, 545
- ## C
- Caecum**, guinea-pig, comparison of the excitatory actions of substance P, carbachol, histamine and prostaglandin F_{2 α} on smooth muscle of the taenia, 409
- Caffeine**, contraction of rat aorta, effect of prazosin and doxazosin, 315
- , antagonism of enkephalin action in guinea-pig ileum and rat cerebral cortex, 727
- Calcium**, antagonism of α -adrenoceptor-induced release by prazosin and doxazosin in rat aorta, 315
- , effect of amiloride on fraction excretion in rats, 421
- , effect of concentration changes on action of amrinone on sinus node pacemaker cells in rabbits, 511
- , effect of concentration changes on effects of cyproheptadine on action potential characteristics, 335
- , effect of concentration changes on potassium chloride-evoked spasm of guinea-pig trachealis, 553
- , effect of concentration changes on potentiation by indomethacin of responses of rabbit mesenteric and coeliac arteries to vasoconstrictor agonists, 445
- , effect of removal on vanadate-induced contractions of guinea-pig airway smooth muscle, 163
- , potassium-induced cellular increases in rabbit aorta, effect of TI233 on, 519
- , effect on histamine release from rat mast cells induced by ionophore A23187, 365
- , inotropic effects of, in protein-deficient rats, 527

- Calcium antagonists**, effect on hypoxia-induced cardiac hypertrophy in rabbits, 241
- , functional interactions in potassium-depolarized smooth muscle, 485
- Calcium action potentials**, inhibition by opiate activation of potassium conductance in rat locus coeruleus neurones, 225
- Calcium currents**, effect of barbiturates on rate of inactivation in snail neurones, 761
- , slow, mediation of effects of amrinone on rabbit sinus node pacemaker cells, 511
- Calcium efflux**, vanadate-increased rate from calcium loaded trachealis muscle, 163
- Calcium fluxes**, induced by depolarizations or prostaglandin $F_{2\alpha}$ in rat aorta, effects of yohimbine, rauwolfscine and corynanthine, 115
- Calcium: magnesium ion ratio**, effect on antidromic firing in rat phrenic nerve-diaphragm preparations, 17
- Calmodulin inhibitors**, inhibition by, of histamine release in rat mast cells induced by lanthanides and calcium, 365
- Captopril**, effect on genetic hypertension development in spontaneously hypertensive rats, 533
- , potentiation of vasodepressor action of Met-enkephalin in the anaesthetized rat, 405
- Carbachol**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- , excitatory action on smooth muscle of the taenia of guinea-pig caecum, 406
- , induction of contraction in pig isolated trachea, effect of adenine and its derivatives, 603
- Cardiac anaphylaxis**, effect of inhibition of synthesis and receptor antagonism of slow-reacting substance of anaphylaxis in guinea-pig, 73
- Cardiac hypertrophy**, hypoxia-induced in rabbits treated with verapamil and nifedipine, 241
- Carotid body**, cat, specificity and type of receptor involved in chemoreceptor activation by adenosine, 347
- Catechol**, microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- Catechol-O-methyl transferase**, effect of inhibition on potency of isoprenaline in pig isolated bronchus, 699
- Catecholamines**, exogenous, potentiation by, of thyrotropin releasing hormone induction of hyperthermia in mice, 229
- CCI 22277**, effect on rate of depolarization of guinea-pig ventricular action potential, 33
- Central nervous system**, rat, similarities between α_2 -adrenoceptors and those of rat vas deferens, 155
- Cerebral arteries**, cat isolated, characterization of adenosine receptors, 631
- Cerebral cortex**, rat, antagonism of enkephalin action on acetylcholine release by methylxanthines, 727
- , rat, effects of *p*-chloromercuribenzoate on muscarinic acetylcholine receptors, 187
- , rat, effect of *p*-chloromercuribenzoate on structure-binding relationships of muscarinic acetylcholine receptors, 197
- 'Cheese effect'**, possible prevention by low doses of (–)-deprenyl, 141
- Chemoreceptors**, specificity and type of receptor involved in activation by adenosine in cat carotid sinus nerve, 347
- Chlorine ion channels**, γ -aminobutyric acid activation, effect of convulsants in mouse spinal neurones, 619
- Chlorisondamine**, effect on locomotor stimulant effect of nicotine in tolerant rats, 587
- p*-Chloromercuribenzoate**, effect on brain muscarinic receptors, 600
- , effects on muscarinic acetylcholine receptors in rat cerebral cortex, 187
- , effect on structure-binding relationships of muscarinic acetylcholine receptors in rat cerebral cortex, 197
- Chlormethiazole**, effect on the actions of inhibitory and excitatory neurotransmitters on single unit activity in rat brain, 439
- , interactions with GABA_A receptor complex in rat cuneate nucleus *in vitro*, 387
- 2'-Chloroadenosine**, chemoexcitatory effects in cat carotid body, 347
- , effect on prostaglandin $F_{2\alpha}$ -induced contraction of cat isolated cerebral arteries, 631
- , inhibition of inotropic action of isoprenaline in rat atria, 149
- p*-Chlorophenylalanine**, administered during electroconvulsive shock abolishes the increase in 5-HT₂-receptor binding in rats, 173
- Chlorpromazine**, effect on striatal concentrations of *p*- and *m*-hydroxyphenylacetic acid in the mouse, 581
- Cholecystokinin-octapeptide**, effect on intraluminal pressure and myoelectrical activity of dog gall-bladder, stomach and small intestine, 681
- Cholinergic transmission**, modulation of sensitivity of the nicotinic receptor by substance P in amphibians, 123
- , role of prostacyclin in modulation in guinea-pig ileum, 279
- Cimetidine**, inhibition of gastric acid secretion in conscious dogs, 27
- , inhibition of pentagastrin-stimulated gastric acid secretion in dogs with gastric fistulae, 541
- Cinnarizine**, action on relaxant effects of nimodipine in potassium-depolarized smooth muscle, 485
- Clenbuterol**, effect on 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-hydroxytryptamine₂ receptor number in rodents, 377
- Clonidine**, binding studies and locomotor responses to, in rats, 10
- , effect on excitatory junction potentials in renal artery of the guinea-pig, 671
- , effect on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- , microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- [³H]-clonidine**, effect of discontinuation of clorgyline treatment on binding *in vitro*, 10
- Clorgyline**, effect on [³H]-clonidine binding and locomotor response to clonidine in rats, 10
- , potentiation of tyramine-induced release of noradrenaline from rat brain, 141
- Clotrimazole**, effect on contractile response to leukotriene D₄ of guinea-pig parenchymal strip, 47
- Coeliac arteries, rabbit**, effects of sodium and calcium concentrations on responses to vasoconstrictor agonists, 445
- Cold stress**, induction of gastric lesions, effect of

- thyrotropin-releasing hormone in rats, 735
- Compliance**, of mesenteric vessels, effect of captopril and dihydralazine on, in spontaneously hypertensive rats, 533
- Compound 48/80**, lanthanides decrease histamine release induced by, in absence of calcium, 365
- Contractile force**, effect of Paf-acether in guinea-pig isolated heart, 81
- Contractile tissue**, effect of structure on pharmacological responses to 5-hydroxytryptamine and noradrenaline, 107
- Contractility**, effect of captopril and dihydralazine in mesenteric vessels in spontaneously hypertensive rats, 533
- Contractions**, effects of 2-nicotinamidoethyl nitrate on smooth muscle cells of dog mesenteric artery and trachea, 459
- , carbachol-, histamine- or potassium chloride-induced, comparison of the effects of adenine and its derivatives in pig isolated tracheal muscle, 603
 - , induced by depolarization and prostaglandin $F_{2\alpha}$ in rat aorta, effects of yohimbine, rauwolscine and corynanthine, 115
 - , induction by transmural stimulation, comparison with noradrenaline release, 477
 - , induced by transmural stimulation, effect of adrenoceptor antagonist drugs in rat vas deferens, 655
 - , leukotriene-induced, effect of indomethacin in guinea-pig parenchymal lung strips, 47
 - , prostacyclin-induced in guinea-pig ileum, 279
 - , vanadate-induced in airway smooth muscle of guinea-pig, mechanism, 163
- Convulsants**, effect on membrane current responses to γ -aminobutyric acid or glycine in mouse spinal cord, 619
- Coronary artery occlusion**, haemodynamic effects of exaprolol in feline model, 95
- Coronary constriction**, effect of nordihydroguaiaretic acid of FPL 55712 in cardiac anaphylaxis, 73
- Coronary flow**, effect of nordihydroguaiaretic acid or FPL 55712 in anaphylactic guinea pig, 73
- Corynanthine**, effects on contractions and calcium fluxes induced by depolarization and prostaglandin $F_{2\alpha}$ in rat aorta, 115
- , effects on fast and slow component of contraction of rat aorta to noradrenaline, 315
- Cyproheptadine**, effects on electrophysiological properties of isolated cardiac muscle of dogs and rabbits, 335

D

- N^2 -dansyl-L-arginine-4-*t*-butylpiperidine amide** *see* TI 233
- 2'-Deoxyadenosine**, lack of effect on chemoreceptor discharge in cat carotid body, 347
- 2'-Deoxycoformycin**, effect on adenosine inhibition of isoprenaline inotropic action in rat atria, 149
- Dependence**, following brief exposure of guinea-pig ileum to opioids, 741
- Depolarization**, induction of contractions in rat aorta, effects of yohimbine, rauwolscine and corynanthine, 115
- , noradrenaline-induced, effect of α -adrenoceptor blocking agents, 55
- (-)-Deprenyl**, prevention of tyramine-induced noradrenaline release from rat brain, 141
- Depressor responses**, to electrical stimulation, effect of atropine, hexamethonium or propranolol in guinea-pig trachea, 703
- Desmethylimipramine**, effect on 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-hydroxytryptamine₂-receptor number in rodents, 377
- Dexamethasone**, effect on zymosan-air-pouch inflammation in rats, 269
- Dibenzamine**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- 2',5'-Dideoxyadenosine**, effect on adenosine inhibition of human basophil histamine secretion, 719
- Dihydralazine**, effect on genetic hypertension development in spontaneously hypertensive rats, 533
- Dihydroergotamine**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- Dihydroouabain**, antagonism of inotropic effects of ouabain in rat isolated atria and ventricles in relation to specific binding sites, 751
- Diltiazem**, action on relaxant effects of nimodipine in potassium-depolarized smooth muscle, 485
- Dimethyl-4-phenylpiperazinium**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- Diminazene aceturate** *see* Berenil
- Diphenhydramine**, electrophysiological effects on action potentials of dog Purkinje fibres, 335
- Dipyridamole**, effect on adenine-induced relaxation of pig isolated tracheal muscle, 603
- , effect on adenosine inhibition of human basophil histamine secretion, 719
 - , effect on adenosine inhibition of isoprenaline inotropic action in rat atria, 149
 - , effect on chemoexcitatory effects of adenosine and adenosine 5-triphosphate in cat carotid sinus nerve, 347
- Disodium cromoglycate**, effect on anaphylactic reactivity of bovine artery *in vitro*, 7
- Disopyramide**, effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- Dithiothreitol**, effect on potency of pancuronium and hexamethonium on responses in rat phrenic nerve diaphragm preparations, 489
- , effect on stimulus-induced antidromic firing and twitch potentiation produced by paraoxon in rat phrenic nerve-diaphragm preparations, 17
 - , reversal of the inactivation of muscarinic receptors by *p*-chloromercuribenzoate, 187
- Dopamine**, effect on anaphylactic reactivity of bovine bronchial artery *in vitro*, 7
- , effect on smooth muscle cells and neuromuscular transmission in guinea-pig renal artery and vein, 671
 - , responses of *Helix aspersa* central neurones, effect of alinidine, 567
- Dopamine-mediated behaviours**, effect of antidepressant treatments in rodents, 377
- Doxazosin**, effect on fast and slow component of contraction of rat aorta to noradrenaline, 315

E

- EGTA**, selective suppression of slow component of contraction of rat aorta to noradrenaline, 315
- Electrical slow wave activity**, promotion by potassium chloride in guinea-pig trachealis cells, 553
- Electroconvulsive shock**, effect on 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-hydroxytryptamine₂-receptor number in rodents, 377
- , enhancement of 5-hydroxytryptamine mediated behaviour in rats, 173
- Eledoisin**, effect of [D-Arg¹, D-Pro², D-Trp^{7,9}, Leu¹¹]-substance P on contractile action and metabolism in guinea-pig ileal smooth muscle, 205
- Encaimide**, effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- Endothelium-dependent vascular relaxation**, lack of effect of stimulation of endothelial prostacyclin production, 179
- Endplate potentials**, microelectrode recording of the effects of α -adrenoceptor agonists and antagonists in rats, 41
- Enkephalin**, D-Ala²-D-Leu⁵, effect on secretory phase of vasoactive intestinal peptide response in rat small intestine, 371
- , antagonism of action on acetylcholine release by methylxanthines, 727
- , Met-, effect on resting guinea-pig ileum, 741
- , Met-, potentiation of vasodepressor action in anaesthetized rat by captopril, 405
- Enprofylline**, action on relaxant effects of some adenosine analogues on cat isolated cerebral arteries, 631
- Escherichia coli endotoxin**, pulmonary responses to, effect of ketanserin in cats, 295
- Ethyl-7-[4-(2-methoxyphenyl)-1-piperazinyl] heptanoate dihydrochloride** *see* SGB-483
- 5'-N-ethylcarboxamideadenosine**, effects on cyclic adenosine 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes, 639
- , effects on IgE-dependent histamine release in human basophils, 719
- , effects on prostaglandin F_{2 α} -induced contraction of cat isolated cerebral arteries and on cyclic adenosine 3',5'-monophosphate accumulation, 631
- , inhibition of inotropic action of isoprenaline in rat atria, 149
- Ethylketazocine**, effect on secretory phase of vasoactive intestinal peptide response in rat small intestine, 371
- Excitable membranes**, stabilization, involvement in mechanism by which propranolol decreases the contractile force of the rat isolated diaphragm, 613
- Excitatory junction potentials**, effect of adrenoceptor agonists and antagonists in guinea-pig renal artery and vein, 671
- Excitatory transmission**, effect of baclofen in rat hippocampal slices, 211
- Exaprolol**, effect on epicardial ST-segment changes in a feline model of acute myocardial ischaemia, 95

F

- Fenoterol**, relaxant potency in pig bronchus, effect of temperature changes, 699

- Field potentials**, production of increased amplitude by RX77368 in rats, 561
- FK 33-824**, effect on secretory phase of vasoactive intestinal peptide response and fluid transport in rat small intestine, 371
- , inhibition of acetylcholine release from rat cerebral cortex *in vivo*, effect of methylxanthines, 727
- Flecainide**, effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- Fluid exudation**, after induction of zymosan-air-pouch inflammation in rats, 269
- Fluid transport**, small intestine of the rat, 371
- Flurbiprofen**, effect on taurocholate-induced rat gastric erosions, 545
- FPL 52694**, effect on gastric juice electrolyte secretion in conscious dogs with gastric fistulae, 451
- , inhibition of gastric acid secretion in conscious dog with gastric fistulae, 27
- FPL 55712**, effect on anaphylactic reactivity of bovine artery *in vitro*, 7
- , effect on slow-reacting substance of anaphylaxis in cardiac anaphylaxis, 73
- Free fatty acid**, effect of nicotinic acid on basal release in rat adipose tissue, 663
- Frontal cortex**, rodent, effect of antidepressant treatments on number of 5-hydroxytryptamine₂-receptors, 377
- Fruzemide**, induction of diuresis, effect of amiloride on renal magnesium clearance, 421

G

- Gall-bladder**, dog, effect of cholecystokinin-octapeptide on intraluminal pressure and myoelectrical activity, 681
- Gastric acid**, effect of cimetidine on pentagastrin-stimulated secretion in dogs with gastric fistulae, 541
- , inhibition of secretion in conscious dog by FPL 52694, 27
- Gastric electrolytes**, effect of FPL 52694 on secretion in gastric juice in dogs with gastric fistulae, 541
- Gastric erosions**, potentiation of taurocholate-induced formation by cyclo-oxygenase inhibitors in rats, 545
- Gastric juice**, modification of electrolyte secretion by FPL 52694 in dogs with gastric fistulae, 451
- Gastric lesions**, indomethacin-induced, enhancement by thyrotropin-releasing hormone in rats, 735
- Gastric secretion**, effects of arachidonic acid and prostaglandins E₂, F_{2 α} , D₂ and I₂ in the rat, 255
- Gastrointestinal motility**, involvement of cholecystokinin-octapeptide in regulation in dog, 681
- Glucose concentrations**, effect on inhibitory actions of TI 233 on potassium-evoked contractions in taenia coli, 519
- Glutamate**, effect on *in vivo* release of [³H]-purines from rat cortex, 263
- , responses to, effect of chlormethiazole on single unit activity in rat brain, 439
- , sensitivity of binding sites for 2-amino-4-phosphonobutyrate in rat brain synaptic membranes, 355
- Glycerol**, effect of nicotinic acid on ratio to free fatty acid in adipose tissue in rats, 663

- Glycine**, membrane current responses in mouse spinal neurones, 619
- , responses to, effects of chlormethiazole on single unit activity in rat brain, 439
- Guanethidine**, effect on excitatory junction potentials in guinea-pig renal artery, 671
- Guanosine 3',5'-monophosphate**, 8-Br-cyclic, effect on release of endogenous acetylcholine at motor endplate of the rat, 471

H

- Haematocrit**, increase in hypoxic rabbits, 241
- Haemodynamic effects**, coronary artery occlusion, effect of exaprolol, 95
- Haloperidol**, effect on striatal concentrations of *p* and *m*-hydroxyphenylacetic acid in the mouse, 581
- Head-twitch**, carbidopa/5-hydroxytryptophan induced, effect of antidepressant treatments, 377
- Heart**, guinea-pig isolated, actions of Paf-acether, 81
- , rat, effect of protein-calorie malnutrition on weight, 527
- Heart rate**, effect of β -adrenoceptor antagonists on isoprenaline-induced changes in anaesthetized cats, 323
- , effect of vasoactive intestinal polypeptide in conscious rabbit, 13
- Helix aspersa**, interactions between alinidine and responses to acetylcholine, dopamine and 5-hydroxytryptamine of central neurones, 567
- Hemicholinium-3**, effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- Hexamethonium**, effect on isolated innervated preparation of guinea-pig trachea, 703
- , effects on paraoxon-induced twitch potentiation and antidromic firing in rat phrenic nerve diaphragm preparation, 489
- , effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- Hippocampal slices**, rat, effects of baclofen on synaptically-induced cell firing, 211
- Histamine**, contractile responses evoked in coeliac and mesenteric arteries of rabbits, effect of sodium and calcium concentrations, 445
- , effect of adenosine on release from human basophils mediated by A_2 -receptor mediated mechanism, 719
- , effect on gastric juice electrolyte secretion in conscious dogs with gastric fistulae, 451
- , excitatory action on smooth muscle of the taenia of guinea-pig caecum, 406
- , induction of contractions in pig isolated trachea, effect of adenine and its derivatives, 603
- , induction of gastric acid secretion, effect of FPL 52694 in conscious dog, 27
- , induction of increase in airway resistance in guinea-pig, effect of indomethacin, 287
- , role in anti-allergic response of bovine bronchial artery *in vitro*, 7
- , role of lanthanides in secretion process in rat mast cells, 365
- , spasmogenic action in guinea-pig trachealis, 553
- Histamine H_1 -antagonists**, effect of sulphydryl block on binding to the muscarinic receptor, 600
- Histamine receptors**, evaluation of selectivity of 4-methylhistamine in guinea-pig isolated ileum, 65
- 15-Hydroperoxy-arachidonic acid**, induction of airway hyperreactivity and decreased lung β -adrenoceptor number in guinea-pigs, 597
- , inhibition of prostacyclin production in aortic rings of various species, neutralization by vitamin C, 249
- 5-Hydroxydopamine**, responses of *Helix aspersa* central neurones, effect of alinidine, 567
- m*-Hydroxyphenylacetic acid**, effect of antipsychotic drugs on mouse striatal concentrations, 581
- p*-Hydroxyphenylacetic acid**, effect of antipsychotic drugs on mouse striatal concentrations, 581
- 5-(2-Hydroxypropoxy)-4-oxo-8-propyl-4H-1-benzopyran-2-carboxylic acid sodium salt** *see* FPL 52694
- 5-Hydroxytryptamine**, contractile responses evoked in rabbit coeliac and mesenteric arteries, effect of sodium and calcium concentrations, 445
- , contraction of rat aorta, effect of prazosin and doxazosin, 315
- , correlation between responses and structure of human lung parenchyma strips, 107
- , induction of gastric lesions, effect of thyrotropin releasing hormone in rats, 735
- , oxidation by monoamine oxidase A, inhibition by (–)-deprenyl in rat brain, 141
- , pulmonary responses to, in cats, 295
- 5-Hydroxytryptamine-autodesensitization**, effect on wash-out contractures of guinea-pig ileum after contact with Met-enkephalin, 741
- 5-Hydroxytryptamine-mediated behaviours**, effect of antidepressant treatments in rodents, 377
- , in relation to increased numbers of 5-HT₂-receptors following repeated electroconvulsive shock in rats, 173
- 5-Hydroxytryptamine₂ receptor antagonists**, effect on pulmonary responses of cat to *E. coli* endotoxin, 295
- 5-Hydroxytryptamine receptors**, effect of 5-hydroxytryptamine in the presence of antagonists in rat uterus and stomach strip, 691
- 5-Hydroxytryptamine₂ receptors**, effect of antidepressant treatment on number of rodents, 377
- , increased numbers following electroconvulsive shock, explanation for enhanced 5-hydroxytryptamine-mediated behaviours in rats, 173
- Hynorphin**, effect on inhibitory action of neurotensin in rabbit ileum myenteric plexus preparation, 645
- Hyperpolarization**, 2-nicotinamidoethyl nitrate-induced, role of increased potassium conductance, 459
- Hyperreactivity**, induction in guinea-pig airway by 15-hydroperoxy-arachidonic acid, 597
- Hypertension**, myocardial and vascular effects of captopril and dihydralazine during development in spontaneously hypertensive rats, 533
- Hyperthermia**, thyrotropin releasing hormone-induced in mice, possible involvement of adrenal and pituitary glands, 229
- Hypophysectomy**, effect on thyrotropin releasing hormone-induced hyperthermia and raised plasma catecholamine levels in mice, 229
- Hypothermia**, effect on β_1 -adrenoceptor-mediated relaxa-

tion of pig bronchus, 699

Hypoxia, effect on inhibitory action of TI 233 on potassium-evoked contractions in taenia coli, 519

- , induction of cardiac hypertrophy in rabbits treated with verapamil and nifedipine, 241
- , production of spontaneous activity in guinea-pig trachea, 703

I

ICI 118551, inhibition of ¹²⁵I-iodocyanopindolol binding in human myocardium, 711

Ileum, guinea-pig, antagonism of enkephalin action on twitch responses to field stimulation by methylxanthines, 727

- , guinea-pig, mediation by substance P of contracture induced by withdrawal of Met-enkephalin, 741
- , guinea-pig, role of prostacyclin in modulating cholinergic neurotransmission, 279
- , guinea-pig isolated, selectivity of 4-methyl-histamine at H₂- and H₁-receptors, 65
- , rabbit, pharmacological characterization of the inhibitory effects of neurotensin on myenteric plexus preparations, 645

4(2-Imidazole-amino)2-methylindazol-chlorhydrate *see* Sgd 101/75

Indomethacin, effect on anaphylactic reactivity of bovine bronchial artery *in vitro*, 7

- , effect on contractile response of the guinea-pig lung parenchymal strip to leukotrienes B₄, C₄, D₄ and E₄, 47
- , effect on histamine-induced increase in airway resistance in guinea-pig, 287
- , effect on potassium chloride evoked spasm of guinea-pig trachealis, 553
- , effect on renin response to vasoactive intestinal polypeptide in conscious rabbit, 13
- , effect on taurocholate-induced rat gastric erosions, 545
- , effect on vanadate-induced contractions of guinea-pig airway smooth muscle, 163
- , induction of gastric lesions in rats, effect of intracerebroventricular administration of thyrotropin-releasing hormone, 735
- , potentiation of responses of rabbit mesenteric and coeliac arteries to vasoconstrictor agonists, 445

Inflammation, induction in guinea-pig skin by platelet activating factor, 503

- , induction in human skin by intradermal injection of leukotrienes B₄, C₄ and D₄, 497

Inotropic responses, to isoprenaline, phenylephrine and calcium in rats suffering from protein-calorie malnutrition, 527

- , to ouabain in rat ventricles and atria, 751

Insulin, effect on gastric juice electrolyte secretion in conscious dogs with gastric fistulae, 451

Intestine, rat, characterization of opiate receptor population mediating inhibition of vasoactive intestinal peptide-induced secretion, 371

Intraluminal pressure, effect of cholecystokinin-octapeptide in gall-bladder, stomach and small intestine of the dog, 681

Intratracheal pressure, endotoxin-induced increase, effect of ketanserlin in cats, 295

¹²⁵I-iodocyanopindolol, use in studies of β -adrenoceptors of human myocardium, 711

Isoprenaline, effect on anaphylactic reactivity of bovine bronchial artery *in vitro*, 7

- , effect on contractile response of rat diaphragm to tetanic field stimulation *in vitro*, 613
- , effect on maximal twitches and cyclic adenosine 3',5'-monophosphate levels in slow- and fast-contracting cat skeletal muscles, 303
- , effect on smooth muscle cells and neuromuscular transmission in guinea-pig renal artery and vein, 671
- , induction of changes in heart rate, blood pressure, soleus muscle contractility and airways function in anaesthetized cats, 323
- , inhibition of platelet activating factor elicited increased protein extravasation in guinea-pig skin, 503
- , inotropic responses in protein-deficient rats, 527
- , microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- , reduction of inotropic action by purines in rat atria, 149
- , relaxant potency in pig bronchus, effect of temperature changes, 699

K

K-76COONa, effect on zymosan-air-pouch inflammation in rats, 269

Kainate, effect on *in vivo* release of ³H-purines from rat cortex, 263

Ketanserlin, effect on anaphylactic reactivity of bovine artery *in vitro*, 7

- , effect on pulmonary responses of cat to *E. coli* endotoxin, 295

Ketoprofen, effect on taurocholate-induced rat gastric erosions, 545

Kidney, rat, dose-dependent reduction in renal magnesium clearance by amiloride during frusemide-induced diuresis, 421

Kynurenic acid, effect on quinolate- and N-methyl-D-aspartic acid-induced release of ³H-purines from rat cortex, 263

L

Lanthanides, transportation by ionophore A23187 across plasma membranes of rat mast cells, 365

Lanthanum, effect on histamine release from rat mast cells induced by ionophore A23187, 365

Lanthanum chloride, effect on potassium chloride evoked spasm of guinea-pig trachealis, 553

Leukotrienes B₄, C₄ and D₄, responses of human skin to intradermal injection, 497

Leukotrienes B₄, C₄, D₄ and E₄, induction of contractions in guinea-pig parenchymal strip, effect of indomethacin, 47

Leukotriene C₄-like immunoreactivity, effect of nordihydroguaiaretic acid or FPL 55712 on release in cardiac anaphylaxis, 73

- Lignocaine**, comparison of electrophysiological actions with those of phenolamine on isolated tissue from rat heart, 85
- , effect on contractile response of the rat diaphragm to tetanic field stimulation *in vitro*, 613
- Lipolysis**, effect of nicotinic acid in rat adipose tissue, effect of age, 663
- Liver**, rabbit, diminazene residues 7 days after treatment with berenil, 133
- Locomotor activity**, characterization of stimulant action of nicotine in tolerant rats, 587
- , apomorphine-induced, effect of antidepressant treatments, 377
- , responses to clonidine, correlation with changes in numbers of α_2 -adrenoceptors following discontinuation of clorgyline treatment to rats, 10
- Locus coeruleus neurones**, opiated-activated potassium conductance inhibits calcium action potentials in rats, 225
- Lorcanide**, effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- Low temperature**, effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- Lung**, guinea-pig, reduction of number of β -adrenoceptors by 15-hydroperoxy-arachidonic acid, 597
- Lung parenchyma strips**, human, correlations between pharmacological responses and structure, 107
- Lung strips**, guinea-pig, effect of indomethacin on the contractile response to leukotrienes B₄, C₄, D₄ and E₄, 47
- 1, α -Lysophosphatidylcholine palmitoyl**, cardiac function in guinea-pig, 81
- M**
- Mast cells**, guinea-pig, effect of depletion on vanadate-induced contractions of airway smooth muscle, 163
- , rat, induction of histamine release by ionophore A 23187 in the presence of lanthanum, terbium and calcium, 365
- Mecamylamine**, effect on locomotor stimulant action of nicotine in tolerant rats, 587
- Membrane conductance**, effect of substance P, carbachol, histamine and prostaglandin F_{2 α} on the smooth muscle of the taenia of guinea-pig caecum, 409
- Membrane current noise**, evoked by nicotinic agonists in rat submandibular ganglion neurones, 235
- Membrane lipids**, concentrations of barbiturates present required to potentiate the responses of GABA_A receptor complex to muscimol, 387
- Membrane potential**, effects of 2-nicotinamidoethyl nitrate on smooth muscle cells of dog mesenteric artery and trachea, 459
- , effects of substance P, carbachol, histamine and prostaglandin F_{2 α} in smooth muscle of the taenia of guinea-pig caecum, 409
- Mepacrine**, inhibition of histamine release in mast cells induced by lanthanides and calcium, 365
- , effect on potassium chloride evoked spasm of guinea-pig trachealis, 553
- , effect on vanadate-induced contractions of guinea-pig airway smooth muscle, 163
- Mesenteric artery**, dog, effects of 2-nicotinamidoethyl nitrate on smooth muscle cells, 459
- , guinea-pig, effect of SGB-483 on smooth muscle and neuromuscular transmission, 55
- , rabbit, effects of sodium and calcium concentrations on responses to vasoconstrictor agonists, 445
- Mesenteric vessels**, effect of captopril and dihydralazine on compliance in spontaneously hypertensive rats, 533
- N-methyl-DL-aspartate**, effect on *in vivo* release of ³H-purines from cortex of the rat, 263
- α -Methyl-m-tyramine**, effects of (+)-amphetamine, α -methyltyrosine and α -methylphenylalanine on rat striatal concentrations, 309
- α -Methyl p-tyrosine**, administered during electroconvulsive shock abolishes the increase in 5-HT₂-receptor binding in rats, 173
- , effect on rat brain concentrations of *m* and *p* isomers of tyramine and α -methyltyramine, 309
- N⁶-methyladenine**, chemoexcitatory effects in cat carotid body, 347
- 4-Methylhistamine**, evaluation of selectivity at histamine H₁- and H₂-receptors in guinea-pig isolated ileum, 65
- α -Methylphenylalanine**, effect on rat brain concentrations of *m* and *p* isomers of tyramine and α -methyltyramine, 309
- Methysergide**, effect on responses of rat uterus and stomach strip to 5-hydroxytryptamine, 691
- Metoprolol**, effect on isoprenaline-induced changes in blood pressure, heart rate, soleus muscle contractility and airways function in anaesthetized cats, 323
- Mexiletine**, effect on rate of depolarization of guinea-pig ventricular action potentials, 33
- MG 8823** see **Exaprolol**
- Mianserin**, antagonism of action of clonidine in rat isolated vas deferens and effect on [³H]-RX 781094 binding in rat cerebral cortex, 155
- Miniature endplate potentials**, microelectrode recording of the effects of α -adrenoceptor agonists and antagonists in rats, 41
- Molindone**, effect on striatal concentrations of *p*- and *m*-hydroxyphenylacetic acid in the mouse, 581
- Monoamine oxidase A and B**, role of inhibition in effects of deprenyl on noradrenaline release in rat brain, 141
- Morphine**, effect on *in vivo* release of radiolabelled purines from rat cerebral cortex, 727
- , effect on secretory phase of vasoactive intestinal polypeptide response and fluid transport in rat small intestine, 371
- Motoneurons**, excitability after administration of RX77368 in rats, 561
- Motor endplate**, release of acetylcholine in the rat, 471
- Motor endplate responses**, effect of pancuronium and hexamethonium in rat phrenic nerve diaphragm preparations, 489
- MR 2034**, effect on secretory phase of vasoactive intestinal peptide response in rat small intestine, 371
- Muscarinic acetylcholine receptors**, effect of *p*-chloromercuribenzoate in cerebral cortex, 187
- , effect of *p*-chloromercuribenzoate on structure-binding relationships in rat cerebral cortex, 197
- , effect of sulphhydryl block on binding of histamine H₁-receptor antagonists, 600
- , location on presynaptic motor endplate of the rat, 471
- Muscarinic binding sites**, increased number after atropine treatment in rat phrenic nerve, 471

- Muscimol**, depolarization responses of GABA_A receptor complex in rat cuneate nucleus *in vitro*, 387
- , responses to, effects of chlormethiazole on single unit activity in rat brain, 439
- Mydriasis**, reversal of guanobenz-induced by α_2 -Adrenoceptor antagonists, correlated with antagonist potency in rat vas deferens, 155
- Myocardial ischaemia**, feline model, effect of exaprolol on epicardial ST-segment changes, 95
- Myocardial temperature**, effects of exaprolol in feline model of acute myocardial ischaemia, 95
- Myoelectrical activity**, effect of cholecystokinin-octapeptide in dog gall-bladder, stomach and small intestine, 681

N

- Naloxone**, effect on antisecretory response to morphine in rat small intestine, 371
- , effect on hypotensive action of captopril in spontaneously hypertensive rats, 405
- , effect on washout contractures of guinea-pig ileum after contact with Met-enkephalin, 741
- Naproxen**, effect on taurocholate-induced rat gastric erosions, 545
- Naringenin**, inhibition of formation of 6-oxo prostaglandin by rat, rabbit, guinea-pig and human platelets, 395
- Neuromuscular transmission**, effect of adrenoceptor agonists and antagonists in guinea-pig renal artery and vein, 671
- , effect of SGB-483 in guinea-pig mesenteric artery, 55
- Neurones**, *Helix aspersa*, effect of barbiturates on rate of voltage-dependent inactivation of calcium current, 761
- Neurotensin**, inhibitory effects on the rabbit ileum myenteric plexus preparation, 645
- 2-Nicotinamidoethyl nitrate**, effects on smooth muscle cells of dog mesenteric artery and trachea, 459
- Nicotine**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- , characterization of the locomotor stimulant action of nicotine in tolerant rats, 587
- Nicotinic acetylcholine receptors**, modulation of sensitivity by substance P in amphibian cholinergic transmission, 123
- Nicotinic agonists**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- Nifedipine**, action on relaxant effect of nimodipine in potassium-depolarized smooth muscle, 485
- , effect on hypoxia-induced cardiac hypertrophy in rabbits, 241
- Nimodipine**, relaxant effects on calcium-induced contractions of potassium-depolarized smooth muscle, 485
- Nitroprusside**, vasodepressor action in anaesthetized rats, effect of captopril, 405
- Noradrenaline**, contraction of rat aorta, effect of α -adrenoceptor antagonists, 315
- , correlation between responses to and the structure of human lung parenchyma strips, 107
- , effect on smooth muscle cells and neuromuscular transmission in the guinea-pig renal artery and vein, 671
- , induction of contraction in aorta, effect of TI 233, 519

- , induction of membrane depolarization effect of α -adrenoceptor blocking agents, 55
- , induction of release by transmural nerve stimulation, compared to contractile response, 477
- , microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- , thyrotropin releasing hormone-induced increased plasma levels in mice, 229
- , tyramine-induced release from rat brain, prevention by (–)-deprenyl, 141
- , effects on α -adrenoceptors of rat anococcygeus muscle, 343
- (–)-**Noradrenaline**, effect on lipolysis in rat adipose tissue, 663
- , relaxant potency in pig bronchus, effect of temperature changes, 699
- Nordihydroguaiaretic acid**, effect on slow-reacting substance of anaphylaxis in cardiac anaphylaxis, 73

O

- μ -Opiate receptors**, actions of opiates to increase potassium conductance of rat locus coeruleus neurones, 225
- , stimulation mediates inhibition of vasoactive intestinal peptide-induced fluid secretion from the rat jejunal mucosa, 371
- Opiates**, activation of potassium conductance inhibits calcium action potentials in rat locus coeruleus neurones, 225
- Opioid withdrawal**, role of substance P in response precipitated by washout or naloxone in guinea-pig ileum, 741
- Orciprenaline**, relaxant potency in pig bronchus, effect of temperature changes, 699
- Org 6001**, effect on rate of depolarization of guinea-pig ventricular action potential, 33
- Ouabain**, inotropic effects on rat isolated atria and ventricles, 751
- Oxotremorine**, effect on release of endogenous acetylcholine at motor endplate of the rat, 471
- Oxygen consumption**, effect of TI 233 in resting and potassium-stimulated aorta and taenia coli, 519

P

- Paf-acether** *see* **Platelet activating factor**
- Pancreozymin**, comparison of cholecystokinin-octapeptide on gastrointestinal motor activity in conscious dogs, 681
- Pancuronium**, effects on paraoxon-induced twitch potentiation and antidromic firing in rat phrenic nerve diaphragm preparations, 489
- Paraoxon**, induction of twitch potentiation, effect of hexamethonium and pancuronium in rat phrenic nerve diaphragm preparation, 489
- , induction of twitch potentiation and antidromic firing in rat phrenic nerve-diaphragm preparations, 17
- Pentagastrin**, effect on gastric juice electrolyte secretion in conscious dogs with gastric fistulae, 451
- , induction of gastric acid secretion, effect of FPL 52694 in conscious dog, 27

- Pentobarbitone**, effects on calcium current in snail neurones, 761
- Pentylenetetrazol**, administered during electroconvulsive shock abolishes the increase in 5-HT₂ receptor binding in rats, 173
- , effect on membrane current responses to γ -aminobutyric acid in mouse spinal cord, 619
- PGI₂** *see* **Prostacyclin**, 255
- Phenobarbitone**, effects on calcium current in snail neurones, 761
- Phenothiazines**, inhibition of histamine release in rat mast cells induced by lanthanides and calcium, 365
- Phenoxybenzamine**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- , inhibition of extraneuronal uptake, effect on noradrenaline induced relaxation at various temperatures, 699
- Phentolamine**, blockade of delayed pressor response induced by sympathetic stimulation in the presence of atropine or propranolol in guinea-pig trachea, 703
- , comparison of electrophysiological action with those of other antiarrhythmic drugs on tissue isolated from rat heart, 85
 - , effect on excitatory junction potentials in guinea-pig renal artery, 671
 - , effect on fast and slow component of contraction of rat aorta to noradrenaline, 315
 - , effect on thyrotropin releasing hormone-enhancement of indomethacin-induced gastric lesions, in rats, 735
 - , effect on vanadate-induced contractions of guinea-pig airway smooth muscle, 163
 - , inhibition of increases in miniature endplate potential frequency in rat somatic nerve terminals, 41
 - , measurement of antagonism at α -adrenoceptors in rat vas deferens, 655
 - , plus (–)-propranolol, effect on neurotensin-induced inhibitory action on the rabbit ileum myenteric plexus preparation, 645
 - , reduction of potentiation of twitch response to transmural stimulation by noradrenaline in guinea-pig vas deferens, 477
- Phenylephrine**, effect on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- , inhibition of platelet activating factor elicited increased protein extravasation in guinea-pig skin, 503
 - , inotropic responses in protein-deficient rats, 527
 - , microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41
- Phenylethanolamine derivatives**, effect on isoprenaline-induced changes in blood pressure, heart rate, soleus muscle contractility and airways function in anaesthetized cats, 323
- Phenylethylamine**, oxidation by monoamine oxidase B, inhibition by deprenyl in rat brain, 141
- Phenylethylmalonamide**, effect on responses of GABA_A receptor complex in rat cuneate nucleus to muscimol, 387
- D-N⁶-phenylisopropyladenosine**, effect on IgE-dependent histamine release in human basophils, 719
- L-N⁶-phenylisopropyl-adenosine**, effects on cyclic 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes, 639
- , effect on IgE-dependent histamine release in human basophils, 719
 - , effect on prostaglandin F_{2 α} -induced contraction of cat isolated cerebral arteries and on cyclic adenosine 3',5' monophosphate accumulation, 631
 - , inhibition of inotropic action of isoprenaline in rat atria, 149
- 8-Phenyltheophylline**, action on relaxant effects of some adenosine analogues on cat isolated cerebral arteries, 631
- Phosphate**, inorganic, inhibition of vanadate-induced contractions of guinea-pig airway smooth muscle, 163
- Phrenic nerve**, rat, effect of drugs on release of endogenous acetylcholine in the rat, 471
- Phrenic nerve diaphragm preparation**, rat, effect of pancuronium and hexamethonium on paraoxon-induced twitch potentiation and antidromic firing, 489
- Physostigmine**, effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- Picrotoxin**, antagonism of responses of GABA_A receptor complex in rat cuneate nucleus *in vitro* to muscimol, 387
- , effect on membrane current responses to γ -aminobutyric acid in mouse spinal neurones, 619
- Pilocarpine**, effect of *p*-chloromercuribenzoate on binding to muscarinic receptors in rat cerebral cortex, 197
- Pindolol**, effects on action of amrinone on rabbit sinus node pacemaker cells, 511
- Piperoxan**, antagonism of action of clonidine in rat isolated vas deferens and effect on [³H]-RX 781094 binding in rat cerebral cortex, 155
- Pirenzepine**, effect of *p*-chloromercuribenzoate on binding to muscarinic receptors in rat cerebral cortex, 197
- , high affinity binding site, evidence connecting it with low affinity carbachol binding site, 187
- Pituitary glands**, mouse, involvement in thyrotropin releasing hormone induction of hyperthermia, 229
- Plasma**, guinea-pig, effect of apamin on α -adrenoceptor-mediated changes in potassium concentrations, 573
- , guinea-pig, increased protein extravasation after intradermal injection of platelet activating factor, 503
- Platelet activating factor**, action on guinea-pig isolated heart preparations, 81
- , inflammatory actions on guinea-pig skin, 503
- Platelets**, guinea-pig, effect of intradermal injection of platelet activating factor on accumulation, 503
- , rat, rabbit, guinea-pig and human, conversion of prostacyclin to 6-oxo prostaglandin E₁, 395
- Polymorphonuclear leukocytes**, accumulation in air pouch after introduction of zymosan, 269
- Population spikes**, effect of baclofen in rat hippocampal slices, 211
- Potassium**, contractile responses evoked in rabbit coeliac and mesenteric arteries, effect of sodium and calcium concentrations, 445
- , effect of renal action of amiloride on transport in rats, 421
 - , induction of contractions in vascular and intestinal smooth muscle, 519
 - , plasma concentrations, effect of apamin on α -adrenoceptor-mediated changes in guinea-pigs, 573
- Potassium chloride**, effect of high levels on *in vivo* release of ³H-purines from cortex of the rat, 263

- , induction of contractions of pig isolated trachea, effect of adenine and its derivatives, 603
- , spasmogenic action on guinea-pig trachealis, 553
- Potassium conductance**, activation by opiates inhibits calcium action potentials in rat locus coeruleus neurones, 225
- , role in hyperpolarization of smooth muscle cells of the dog mesenteric artery and trachea induced by 2-nicotinoamidoethyl nitrate, 459
- Potassium deficiency**, effect on the excitatory actions of substance P, carbachol, histamine and prostaglandin $F_{2\alpha}$ on the smooth muscle of the taenia of guinea-pig caecum, 409
- Potentials**, acetylcholine-induced, effect of substance P on amplitude in amphibian cholinergic transmission, 123
- Prazosin**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- , effect on fast and slow component of α -adrenoceptor-mediated contraction of rat aorta, 315
- , effect on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- , effect on smooth muscle cells and neuromuscular transmission in guinea-pig renal artery and vein, 671
- , inhibition of increases in miniature endplate potential frequency in rat somatic nerve terminals, 41
- , measurement of antagonism at α -adrenoceptors in rat vas deferens, 655
- Pressor responses**, to electrical stimulation, effect of atropine, hexamethonium or propranolol in guinea-pig trachea, 703
- Primidone**, effect on responses of GABA_A receptor complex in rat cuneate nucleus to muscimol, 387
- Propranolol**, effect on histamine induced increase in airway resistance in guinea-pig with or without indomethacin pretreatment, 287
- , effect on isolated innervated preparation of guinea-pig trachea, 703
- , effect on isoprenaline-induced changes in blood pressure, heart rate, soleus muscle contractility and airways function in anaesthetized cats, 323
- , effect on renin response to vasoactive intestinal polypeptide in conscious rabbit, 13
- , enhancement of potentiation of twitch response to transmural stimulation by noradrenaline in guinea-pig vas deferens, 477
- , inhibition of the contractile response of the rat diaphragm to tetanic field stimulation *in vitro*, 613
- (-)-**Propranolol**, plus phentolamine, effect on neurotensin-induced inhibitory action on rabbit ileum myenteric plexus preparations, 645
- Prostacyclin**, conversion to 6-oxo prostaglandin E_1 by rat, rabbit, guinea-pig and human platelets, 395
- , effect on central control of gastric secretion in the rat, 255
- , inhibition of formation by cyclo-oxygenase inhibitors in relation to rat gastric erosion formation, 545
- , role in modulation of cholinergic neurotransmission in guinea-pig ileum, 279
- , stimulation of endothelial production plays no role in endothelium-dependent relaxation of the pig aorta, 179
- , vitamin C-increased formation in aortic rings of various species, 249
- Prostaglandin D_2** , effect on central control of gastric secretion in the rat, 255
- Prostaglandin E_1** , effect on platelet accumulation reduced in response to platelet activating factor, in guinea-pig skin, 503
- , 6-oxo-, conversion from prostacyclin by rat, rabbit, guinea-pig and human platelets, 395
- Prostaglandin E_2** , effect on agonist contracted rabbit coeliac and mesenteric arteries, 445
- , effect on the responses of human skin to intradermal injection of leukotrienes B_4 , C_4 and D_4 , 497
- , involvement in central nervous system control of gastric secretion, 255
- , potentiation of platelet activating factor elicited increased protein extravasation in guinea-pig skin, 503
- Prostaglandin $F_{1\alpha}$** , 6-keto-(6-oxo), effect of nordihydroguaiaretic acid of FPL 55712 on release in cardiac anaphylaxis, 73
- , vitamin C-increased production in aortic rings of various species, 249
- Prostaglandin $F_{2\alpha}$** , contraction of cat isolated cerebral arteries, effect of adenosine analogues and xanthine derivatives, 631
- , excitatory action on smooth muscle of the taenia of guinea-pig caecum, 406
- , induction of contractions in rat aorta, effects of yohimbine, rauwolfscine and corynanthine, 115
- , involvement in central nervous system control of gastric secretion in the rat, 255
- Prostaglandin I_2** *see* Prostacyclin
- Prostaglandins**, role in renin response to vasoactive intestinal polypeptide, 13
- Protein-calorie malnutrition**, effect on myocardial inotropic responses and adrenoceptors in rats, 527
- Protein extravasation**, effect of intradermal injection of platelet activating factor in guinea-pig plasma, 503
- Pulmonary responses**, to *E.coli* endotoxin in cats, effect ketanserin, 295
- Purines**, effect of morphine on *in vivo* release from rat cerebral cortex, 727
- , inhibition of inotropic action of isoprenaline, 149
- 3H -purines**, *in vivo* release by quinolinic acid and related compounds in rats, 263
- Purkinje fibres**, electrophysical effects of cyproheptadine in dogs, 335
- Pyrogallol**, microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41

Q

- Quinidine**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- Quinolinic acid**, effect on *in vivo* release of 3H -purines from cortex of rats, 263
- 3-Quinuclidinylbenzilate**, effect on release of endogenous acetylcholine at motor endplate of rat, 471
- Quisqualate**, effect on *in vivo* release of 3H -purines from rat cortex, 263
- , inhibition of 2-amino-4-phosphonobutyrate binding to L-glutamate-sensitive binding sites on rat brain synaptic membranes, 355

R

- R24571**, inhibition of histamine release in rat mast cells induced by lanthanides and calcium, 365
- Rauwolscine**, antagonism of action of clonidine in isolated rat vas deferens and effect on [^3H]-RX 781094 binding in rat cerebral cortex, 155
- , effects on contractions and calcium fluxes induced by depolarization and prostaglandin $\text{F}_{2\alpha}$ in rat aorta, 115
- , effects on fast and slow component of contraction of rat aorta to noradrenaline, 315
- Red blood cells**, guinea-pig, effect of intradermal injection of platelet activating factor on accumulation, 503
- Renal vasculature**, effect of adrenoceptor antagonists and agonists on smooth muscle and neuromuscular transmission, 671
- Renin**, production by vasoactive intestinal polypeptide of increased plasma activity in conscious rabbit, 13
- Reserpine**, effect of pretreatment on histamine-induced increase in airway resistance in guinea-pig, 287
- Restraint**, induction of gastric lesions, effect of thyrotropin releasing hormone in rats, 735
- Rolipam**, potentiation of relaxant effect of adenosine on cat isolated cerebral arteries, 631
- RS21361**, antagonism of the action of clonidine in isolated rat vas deferens and effect on [^3H]-RX 781094 binding in rat cerebral cortex, 155
- , measurement of antagonism at α -adrenoceptors in rat vas deferens, 655
- $^{86}\text{Rubidium}$** , induction of release from pig aortic endothelial cells, 179
- , loss of receptor-mediated efflux from pig aortic endothelial cells in culture, 5
- Rutin**, inhibition of formation of 6 oxo prostaglandin by rat, rabbit, guinea-pig and human platelets, 395
- RX77368**, production of increased amplitude of field potential in motoneurons in rats, 561
- RX 781094**, antagonism of action of clonidine in isolated rat vas deferens and effect on [^3H]-RX 781094 binding in rat cerebral cortex, 155
- [^3H]-RX 781094, binding to rat cerebral cortex membranes, effect of various α_2 -adrenoceptor antagonists, 155
- RX 783006**, effect on secretory phase of vasoactive intestinal peptide response and fluid transport in rat small intestine, 371

S

- Schultz-Dale reaction**, bovine bronchial artery *in vitro*, 7
- SGB-483**, effect on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- Sgd 101/75**, agonist effects on α -adrenoceptors of rat anococcygeus muscle, 343
- Sinoatrial node**, electrophysiological effect of cyproheptadine in rabbit heart, 335
- Sinus node pacemaker cells**, rabbit, effect of amrinone on transmembrane action potentials, 511
- Skeletal muscle contractions**, effect of increasing frequency of twitches and of isoprenaline on maximal twitches and cyclic adenosine 3',5'-monophosphate levels, 303
- Skeletal muscle endplate**, frog, effect of substance P on sensitivity of nicotinic acetylcholine receptors, 123
- Skin**, guinea-pig, inflammatory actions of platelet activating factor, 503
- , human, response to intradermal injection of leukotrienes C_4 , D_4 and B_4 , 497
- Slow-reacting substance of anaphylaxis**, effect of nordihydroguaiaretic acid or FPL 55712 in cardiac anaphylaxis, 73
- Small intestine**, dog, effect of cholecystokinin-octapeptide on intraluminal pressure and myoelectrical activity, 681
- Smooth muscle**, effect of histamine on airway resistance in guinea-pig, 287
- , effect of SGB-483 in guinea-pig mesenteric artery, 55
- , guinea-pig airway, mechanism of vanadate-induced contractions, 163
- , taenia of guinea-pig caecum, comparison of the excitatory actions of substance P, carbachol, histamine and prostaglandin $\text{F}_{2\alpha}$, 409
- , vascular, effects of yohimbine, rauwolscine and corynanthine on contractions and calcium fluxes induced by depolarization and prostaglandin $\text{F}_{2\alpha}$, 115
- , vascular and intestinal, effect of TI 233 on potassium-evoked contractions, 519
- Smooth muscle cells**, effects of adrenoceptor agonists and antagonists in guinea-pig artery and vein, 671
- , effects of 2-nicotinamidoethyl nitrate on dog mesenteric artery and trachea, 459
- Sodium**, effect of amiloride on fractional excretion in rats, 421
- , effect of concentration of, on potentiation by indomethacin of responses of rabbit mesenteric and coeliac arteries to vasoconstrictor agonists, 445
- Sodium channel**, blockade by phentolamine in tissue isolated from rat heart, 85
- , interaction with class I antiarrhythmic drugs, 33
- Sodium currents**, slow, mediation of effects of amrinone on rabbit sinus node cells, 511
- Sodium deficiency**, effect on the excitatory actions of substance P, carbachol, histamine and prostaglandin $\text{F}_{2\alpha}$ on smooth muscle of taenia of guinea-pig caecum, 406
- Sodium 6,7-dihydroxy-2,5,5,8a-tetramethyl-1,2,3,4,4a,5,6,7,8,8a-decahydronaphthalene-1-spiro-2'-(7'-carboxylate-6'-formyl-4'-hydroxy)-2'; dihydrobenzofuran** *see* K-76C00Na
- Sodium ionophore**, preferential interaction with alinidine on *Helix aspersa* central neurones, 567
- Sodium, potassium-adenosine triphosphatase**, system, lack of involvement in contractile action of vanadate, 163
- Soleus muscle**, effect of β -adrenoceptor antagonists on isoprenaline-induced changes in contractility in anaesthetized cats, 323
- Somatic nerve terminals**, rat, microelectrode recording of the effects of agonists and antagonists on α -adrenoceptors, 41
- Spinal cord**, mouse, convulsant-induced depression of amino acid responses studied under voltage clamp, 619
- Spontaneous firing rate**, effects of chlormethiazole on single unit in rat brain, 439
- SRS-A** *see* Slow-reacting substance of anaphylaxis
- ST-segment elevation**, effect of exaprolol in feline model of acute myocardial ischaemic, 95
- Stomach**, dog, effect of cholecystokinin-octapeptide on intraluminal pressure and myoelectrical activity, 681
- Stomach strip**, rat, heterogeneity of 5-hydroxytryptamine

- receptors with those in rat uterus, 691
- Striatum**, rat, effects of (+)-amphetamine, α -methyltyrosine and α -methylphenylalanine on concentrations of *m*-tyramine and α -methyl-*m*-tyramine, 309
- Structure-activity relations**, in antiarrhythmic drugs, 33
- Structure-binding relationships**, effect of *p*-chloromercuribenzoate on muscarinic receptors in rat cerebral cortex, 197
- Strychnine**, effect on membrane current responses to glycine in mouse spinal cord, 619
- Suberyldicholine**, analysis of current noise evoked in rat submandibular ganglion neurones, 235
- Submandibular ganglion neurones**, rat, analysis of current noise evoked by nicotinic agonists, 235
- Substance P**, excitatory action on smooth muscle of the taenia of guinea-pig caecum, 406
- , effect of [D-Arg¹, D-Pro², D-Trp^{7,9}, Leu¹¹]-substance P on contractile action and metabolism in guinea-pig ileal smooth muscle, 205
- , mediation of contracture of guinea-pig ileum on withdrawal of Met-enkephalin, 741
- , modulation of the sensitivity of the nicotinic receptor in amphibian cholinergic transmission, 123
- Substance P antagonist**, effect on washout contractures of guinea-pig ileum after contact with Met-enkephalin, 741
- Sulphydryl block**, effect on binding of H₁-antagonists to the muscarinic receptor, 600
- Sulpiride**, effect on striatal concentrations of *p*- and *m*-hydroxyphenylacetic acid in the mouse, 581
- Sympathetic ganglion cells**, bullfrog, effect of substance P on sensitivity of nicotinic acetylcholine receptors, 123
- Sympathetic nerve stimulation**, responses of spontaneously hypertensive rats, effect of bilateral demedullation, 429
- Sympathetic nervous system**, delayed depressor response to stimulation in the presence of atropine or propranolol in guinea-pig trachea, 703
- Synaptic membranes**, rat brain, characterization of the binding of 2-amino-4-phosphonobutyrate to L-glutamate-sensitive sites, 355
- T**
- Tachyphylaxis**, development following inhibitory effect of neurotensin in rabbit ileum myenteric plexus preparation, 645
- Taurocholate**, induction of rat gastric erosions, potentiation following parenteral administration of cyclooxygenase inhibitors, 545
- Terbium**, effect on histamine release induced by ionophore A23187 in rat mast cells, 365
- Tetanic field stimulation**, inhibition by propranolol of the contractile response of the rat diaphragm, 613
- Tetraethylammonium**, effect of pretreatment on the action of 2-nicotinamidoethyl nitrate on smooth muscle cells of the dog mesenteric artery and trachea, 459
- , spasmogenic action in guinea-pig trachealis, 553
- Tetrodotoxin**, effect on excitatory junction potentials in guinea-pig renal artery, 671
- , effect on potassium chloride evoked spasm of guinea-pig trachealis, 553
- , effect on potency of neurotensin in relaxing rabbit ileum, 645
- , effect on prostacyclin-induced contraction in guinea-pig ileum, 279
- Theophylline**, action on relaxant effects of some adenosine analogues on cat isolated cerebral arteries, 631
- , antagonism of enkephalin action in guinea-pig ileum and rat cerebral cortex, 727
- , effect of pretreatment on neurotensin-induced inhibitory action on rabbit ileum myenteric plexus preparations, 645
- , effect on adenine-induced relaxation of pig isolated tracheal muscle, 603
- , effect on adenosine inhibition of basophil histamine secretion in humans, 719
- , effect on lipolysis in rat adipose tissue, 663
- , reversal of cardiac depressant effects of purines in rat atria, 149
- Thiopentane**, effect on calcium current in snail neurones, 761
- Thromboxane B₂**, effect of nordihydroguaiaretic acid and FPL 55712 on release in cardiac anaphylaxis, 73
- Thymocytes**, rat and guinea-pig, inhibition by xanthine derivatives of adenosine receptor-stimulated cyclic adenosine 3',5'-monophosphate accumulation, 639
- Thyrotropin-releasing hormone**, enhancement of indomethacin-induced gastric lesions in rats, 735
- , induction of hyperthermia in mice, possible involvement of adrenal and pituitary glands, 229
- Thyrotropin releasing hormone analogues**, induction of motoneurone excitability in rats, 561
- TI 233**, effects on potassium-evoked contractions in vascular and intestinal smooth muscle, 519
- Tiodazosin**, effect on fast and slow component of contraction of rat aorta to noradrenaline, 315
- Tolazoline**, comparison of electrophysiological actions with those of phentolamine on isolated tissue from rat heart, 85
- Tolerance**, to nicotine, development in rats, 587
- Trachea**, dog, effects of 2-nicotinamidoethyl nitrate on smooth muscle cells, 459
- , guinea-pig, spasmogenic action of potassium chloride, 553
- Transmembrane action potentials**, rabbit sinus node pacemaker cells, effect of amrinone, 511
- Transmural nerve stimulation**, contractile response to and release of noradrenaline in guinea-pig vas deferens, 477
- , induction of contractile response in rat vas deferens, effect of adrenoceptor antagonists drugs, 655
- Trazodone**, effect on responses of rat uterus and stomach strip to 5-hydroxytryptamine, 691
- Trimazosin**, effect on fast and slow component of contraction of rat aorta to noradrenaline, 315
- Tripeleennamine**, effect on anaphylactic reactivity of bovine bronchial artery *in vitro*, 7
- Trypanosoma congolense**, effectiveness of berenil, in rabbits, 133
- Trypsin**, effect on aggregated polymorphonuclear leukocytes in air-pouch treated with zymosan in rats, 269
- (+)-Tubocurarine**, effect on response of rat diaphragm to propranolol, 613

- m-Tyramine**, effects of (+)-amphetamine, α -methyltyrosine and α -methylphenylalanine on rat striatal concentrations, 309
- Twitch frequency**, effect of increases on maximal twitches and cyclic adenosine 3', 5'-monophosphate levels in slow- and fast-contracting cat skeletal muscles, 303
- Twitch height**, antagonism of enkephalin action by methylxanthines in field stimulated myenteric plexus longitudinal muscle of guinea-pig ileum, 727
- Twitch potentiation**, paraoxon-induced, effect of hexamethonium and pancuronium in rat phrenic nerve diaphragm preparation, 489
- , paraoxon-induced in relation to stimulus-induced antidromic firing in rat phrenic nerve-diaphragm preparations, 17
- Twitch response**, electrically evoked, effect of prostacyclin in guinea-pig ileum, 279
- , to transmural stimulation, potentiation by noradrenaline in rat vas deferens, 477
- Tyramine**, induction of noradrenaline release from rat brain, prevention by (–)-deprenyl, 141

U

- U-0521**, effect on isoprenaline relaxation of pig bronchus, effect of hyperthermia, 699
- Ulcerogenic agents**, mode of action in rats, 735
- Uterus**, rat, heterogeneity of 5-hydroxytryptamine receptors with those of stomach strip, 691

V

- Vagus nerve**, effect of stimulation on guinea-pig trachea, 703
- Vanadate**, induction of contractions in guinea-pig airway smooth muscle, mechanisms, 163
- Vas deferens**, guinea-pig, contractile response to and the release of noradrenaline by transmural nerve stimulation, 477
- , rat, similarities between α_2 -adrenoceptors and those of central nervous system, 155
- , rat, use of neurally released agonist in the measurement of antagonism at α -adrenoceptors, 655
- Vascular reactivity**, effect of bilateral demedullation in spontaneously hypertensive rats, 429
- Vasoactive intestinal polypeptide**, induction of fluid secretion in small intestine of the rat, effect of narcotic analgesics, 371
- , production of systemic vasodilatation and renin release in conscious rabbit, 13
- Ventricle**, guinea-pig, effect of Class I anti-arrhythmic drugs on maximum rate of depolarization of action potentials, 33
- , rat, inotropic effect of ouabain and antagonism by dihydroouabain, 751
- Ventricular muscle**, rat, effects of antiarrhythmic drugs, 85
- , dog, electrophysiological effect of cyproheptadine, 335
- Verapamil**, action on relaxant effects of nimodipine in potassium-depolarized smooth muscle, 485
- , effects on action of amrinone on rabbit sinus node pacemaker cells, 511

- , effects on contractile action of vanadate, 163
- , effect on hypoxia-induced cardiac hypertrophy in rabbits, 241
- VIP** see **Vasoactive intestinal polypeptide**
- Vitamin C**, effect on the formation of prostacyclin by aortic rings from various species and on the inhibitory effects of 15-hydroperoxy-arachidonic acid, 249
- Voltage clamp technique**, study of convulsant-induced depression of amino acid responses in cultured mouse spinal neurones, 619

W

- W-7**, action on relaxant effects of nimodipine in potassium-depolarized smooth muscle, 485
- Washout contractures**, effect of atropine, naloxone, substance P antagonist or 5-hydroxytryptamine-autodesensitization in guinea-pig ileum, 741
- WB4101**, effect on fast and slow component of contraction of rat aorta to noradrenaline, 315
- Wy 26703**, antagonism of action of clonidine in isolated rat vas deferens and effect on [³H]-RX 781094 binding in rat cerebral cortex, 155

X

- Xanthine derivatives**, antagonism of enkephalin action on acetylcholine release in guinea-pig ileum, 727
- , effects on cat isolated cerebral arteries, 631
- , inhibition of adenosine 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes, 639
- Xylazine**, microelectrode recording of effects on α -adrenoceptors on rat somatic nerve terminals, 41

Y

- Yohimbine**, antagonism of action of clonidine in rat isolated vas deferens and effect on [³H]-RX781094 binding in rat cerebral cortex, 155
- , comparison of electrophysiological action with those of phentolamine on isolated tissue from rat heart, 85
- , effects on contractions and calcium fluxes induced by depolarization and prostaglandin F_{2 α} in rat aorta, 115
- , effects on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery, 55
- , effects on smooth muscle cells and neuromuscular transmission in the guinea-pig renal artery and vein, 671
- , inhibition of increases in miniature endplate potential frequency in rat somatic nerve terminals, 41
- , measurement of antagonism at α -adrenoceptors in rat vas deferens, 655

Z

- Zymosan-air-pouch inflammation**, reproducible model for quantitative studies, 269

British Journal of Pharmacology

CONTENTS

VOLUME 80 NUMBER 1 SEPTEMBER 1983

- 3 Dr James Raventos: Obituary

SHORT COMMUNICATIONS

- 5 AGER, A. & MARTIN, W. Loss of receptor-mediated ^{86}Rb efflux from pig aortic endothelial cells in culture
- 7 ALEXANDER, D.I., EYRE, P. & GORDON, V.P. Anaphylactic contraction (Schultz-Dale reaction) of the bovine bronchial artery *in vitro*
- 10 AULAKH, C.S., COHEN, R.M., McLELLAN, C. & MURPHY, D.L. Correlation of changes in α_2 -adrenoceptor number and locomotor responses to clonidine following clorgyline discontinuation
- 13 CALAM, J., DIMALINE, R., PEART, W.S. & UNWIN, R. Studies on the renin response to vasoactive intestinal polypeptide (VIP) in the conscious rabbit.

PAPERS

- 17 CLARK, A.L., HOBIGER, F. & TERRAR, D.A. The relationship between stimulus-induced antidromic firing and twitch potentiation produced by paraoxon in rat phrenic nerve-diaphragm preparations
- 27 CANFIELD, S.P. & CURWAIN, B.P. Inhibition of gastric acid secretion in the conscious dog by the mast-cell stabilizing agent, FPL 52694
- 33 CAMPBELL, T.J. Importance of physico-chemical properties in determining the kinetics of the effects of Class I antiarrhythmic drugs on maximum rate of depolarization in guinea-pig ventricle
- 41 LIM, S.P. & MUIR, T.C. Microelectrode recording of the effects of agonists and antagonists on α -adrenoceptors on rat somatic nerve terminals
- 47 AUSTEN, K.F., COREY, E.J., DRAZEN, J.M. & LEITCH, A.G. The effect of indomethacin on the contractile response of the guinea-pig lung parenchymal strip to leukotrienes B_4 , C_4 , D_4 and E_4
- 55 FUJISAWA, K. Effects of a new α -adrenoceptor blocking agent, ethyl-7-[4-(2-methoxyphenyl)-1-piperazinyl] heptanoate dihydrochloride (SGB-483), on smooth muscle and neuromuscular transmission in guinea-pig mesenteric artery

- 65 BARKER, L.A. & HOUGH, L.B. Selectivity of 4-methylhistamine at H_1 - and H_2 -receptors in the guinea-pig isolated ileum
- 73 AEHRINGHAUS, U., PESKAR, B.A., WITTENBERG, H.R. & WÖBLING, R.H. Effect of inhibition of synthesis and receptor antagonism of SRS-A in cardiac anaphylaxis
- 81 BENVENISTE, J., BOULLET, C., BRINK, C. & LABAT, C. The actions of Paf-acether (platelet-activating factor) on guinea-pig isolated heart preparations
- 85 NORTHOVER, B.J. A comparison of the electrophysiological actions of phentolamine with those of some other antiarrhythmic drugs on tissues isolated from the rat heart
- 95 PARRATT, J.R. & UDVARY, E. The effect of exaprolol (MG 8823) on epicardial ST-segment changes in a feline model of acute myocardial ischaemia
- 107 BERTRAM, J.F., GOLDIE, R.G., PAPADIMITRIOU, J.M. & PATERSON, J.W. Correlations between pharmacological responses and structure of human lung parenchyma strips
- 115 GODFRAIND, T., MILLER, R.C. & LIMA, J.S. Effects of yohimbine, rauwolscine and corynanthine on contractions and calcium fluxes induced by depolarization and prostaglandin $\text{F}_{2\alpha}$ in rat aorta
- 123 AKASU, T., KOJIMA, M. & KOKETSU, K. Substance P modulates the sensitivity of the nicotinic receptor in amphibian cholinergic transmission
- 133 GILBERT, R.J. Studies in rabbits on the disposition and trypanocidal activity of the anti-trypanosomal drug, dimazene aceturate (Berenil)
- 141 GLOVER, V., PYCOCK, C.J. & SANDLER, M. Tyramine-induced noradrenaline release from rat brain slices: prevention by (-)-deprenyl
- 149 HUGHES, P.R. & STONE, T.W. Inhibition by purines of the inotropic action of isoprenaline in rat atria.
- 155 DOXEY, J.C., GADIE, B., LANE, A.C. & TULLOCH, I.F. Evidence for pharmacological similarity between α_2 -adrenoceptors in the vas deferens and central nervous system of the rat
- 163 NAYLER, R.A. & SPARROW, M.P. Mechanism of vanadate-induced contraction of airways smooth muscle of the guinea-pig

- 173 GREEN, A.R., JOHNSON, P. & NIMGAONKAR, V.L. Increased 5-HT₂ receptor number in brain as a probable explanation for the enhanced 5-hydroxytryptamine-mediated behaviour following repeated electroconvulsive shock administration to rats
- 179 GORDON, J.L. & MARTIN, W. Stimulation of endothelial prostacyclin production plays no role in endothelium-dependent relaxation of the pig aorta
- 187 BIRDSALL, N.J.M., BURGEN, A.S.V., HULME, E.C. & WONG, E.H.F. The effects of *p*-chloromercuribenzoate on muscarinic receptors in the cerebral cortex
- 197 BIRDSALL, N.J.M., BURGEN, A.S.V., HULME, E.C. & WONG, E.H.F. The effect of *p*-chloromercuribenzoate on structure-binding relationships of muscarinic receptors in the rat cerebral cortex
- 205 WATSON, S.P. Pharmacological characterization of a substance P antagonist, [D-Arg¹, D Pro², D-Trp^{7,9}, Leu¹¹]-substance P
- 211 AULT, B. & NADLER, J.V. Effects of baclofen on synaptically-induced cell firing in the rat hippocampal slice

VOLUME 80 NUMBER 2 OCTOBER 1983

- 223 Professor G.A.H. Buttle: Obituary
- 224 Professor Ulf von Euler: Obituary

SHORT COMMUNICATION

- 225 NORTH, R.A. & WILLIAMS, J.T. Opiate activation of potassium conductance inhibits calcium action potentials in rat locus coeruleus neurones

PAPERS

- 229 BOSCHI, G., NOMOTO, T. & RIPS, R. Thyrotropin releasing hormone-induced hyperthermia in mice: possible involvement of adrenal and pituitary glands
- 235 GRAY, P.T.A. & RANG, H.P. Analysis of current noise evoked by nicotinic agonists in rat submandibular ganglion neurones
- 241 DUKES, I.D. & VAUGHAN WILLIAMS, E.M. Hypoxia-induced cardiac hypertrophy in rabbits treated with verapamil and nifedipine
- 249 BEETENS, J.R. & HERMAN, A.G. Vitamin C increases the formation of prostacyclin by aortic rings from various species and neutralizes the inhibitory effect of 15-hydroperoxy-arachidonic acid
- 255 PUURUNEN, J. Central nervous system effects of arachidonic acid, PGE₂, PGF_{2α}, PGD₂ and PGI₂ on gastric secretion in the rat
- 263 PERKINS, M.N. & STONE, T.W. *In vivo* release of [³H]-purines by quinolinic acid and related compounds
- 269 KONNO, S. & TSURUFUJI, S. Induction of zymosan-air-pouch inflammation in rats and its characterization with reference to the effects of anticomplementary and anti-inflammatory agents
- 279 GAION, R.M. & TRENTO, M. The role of prostacyclin in modulating cholinergic neurotransmission in guinea-pig ileum
- 287 MITCHELL, H.W. Indomethacin enhances the effect of histamine on airways resistance in the anaesthetized guinea-pig
- 295 BALL, H.A., PARRATT, J.R. & RODGER, I.W. The effect of a selective 5-HT₂ antagonist, ketanserin, on the pulmonary responses to *Escherichia coli* endotoxin
- 303 MERICAN, Z., NOTT, M.W. & SUNBHANICH, M. Effects of increasing the frequency of twitches and of isoprenaline on maximal twitches and cyclic AMP levels in slow- and fast-contracting cat skeletal muscles
- 309 DOUGAN, D.F.H., DUFFIELD, A.M., DUFFIELD, P.H. & WADE, D.N. The effects of (+)-amphetamine, α-methyltyrosine, and α-methylphenylalanine on the concentrations of *m*-tyramine and α-methyl-*m*-tyramine in rat striatum
- 315 DOWNING, O.A., WILSON, K.A. & WILSON, V.G. Non-competitive antagonism of the α-adrenoceptor-mediated fast component of contraction of rat aorta, by doxazosin and prazosin
- 323 LETTS, L.G., RICHARDSON, D.P., TEMPLE, D.M. & WILLIAMS, L.R. The selectivity of β-adrenoceptor antagonists on isoprenaline-induced changes in heart rate, blood pressures, soleus muscle contractility and airways function in anaesthetized cats
- 335 RICCIOPPO NETO, F. Effects of cyproheptadine on electrophysiological properties of isolated cardiac muscle of dogs and rabbits
- 343 COATES, J. & WEETMAN, D.F. Demonstration of α_{1s}-adrenoceptors after exposure of the rat anococcygeus to benextramine
- 347 McQUEEN, D.S. & RIBEIRO, J.A. On the specificity and type of receptor involved in carotid body chemoreceptor activation by adenosine in the cat
- 355 BUTCHER, S.P., COLLINS, J.F. & ROBERTS, P.J. Characterization of the binding of DL-[³H]-2-amino-4-phosphonobutyrate to L-glutamate-sensitive sites on rat brain synaptic membranes
- 365 AMELLAL, M. & LANDRY, Y. Lanthanides are transported by ionophore A23187 and mimic calcium in the histamine secretion process

- 371 COUPAR, I.M. Characterization of the opiate receptor population mediating inhibition of VIP-induced secretion from the small intestine of the rat
- 377 GREEN, A.R., HEAL, D.J., JOHNSON, P., LAURENCE, B.E. & NIMGAONKAR, V.L. Antidepressant treatments: effects in rodents on dose-response curves of 5-hydroxytryptamine- and dopamine-mediated behaviours and 5-HT₂ receptor number in frontal cortex
- 387 HARRISON, N.L. & SIMMONDS, M.A. Two distinct interactions of barbiturates and chlormethiazole with the GABA_A receptor complex in rat cuneate nucleus *in vitro*
- 395 GRIFFITHS, R.J. & MOORE, P.K. Conversion of prostacyclin to 6 oxo prostaglandin E₁ by rat, rabbit, guinea-pig and human platelets

VOLUME 80 NUMBER 3 NOVEMBER 1983

PAPERS

- 405 Di NICOLANTONIO, R., HUTCHINSON, J.S. TAKATA, Y. & VERONI, M. Captopril potentiates the vasodepressor action of Met-enkephalin in the anaesthetized rat
- 409 BENHAM, C.D. & BOLTON, T.B. Comparison of the excitatory actions of substance P, carbachol, histamine and prostaglandin F_{2α} on the smooth muscle of the taenia of the guinea-pig caecum
- 421 DEVANE, J. & RYAN, M.P. Dose-dependent reduction in renal magnesium clearance by amiloride during frusemide-induced diuresis in rats
- 429 BORKOWSKI, K.R. & QUINN, P. The effect of bilateral adrenal demedullation on vascular reactivity and blood pressure in spontaneously hypertensive rats
- 439 GENT, J.P. & WACEY, T.A. The effects of chlormethiazole on single unit activity in rat brain; interactions with inhibitory and excitatory neurotransmitters
- 445 NOVELLI, E.L.B., OSHIRO, M.E.M., PAIVA, A.C.M. & PAIVA, T.B. Effects of sodium and calcium concentrations on the potentiation by indomethacin of the responses of rabbit mesenteric and coeliac arteries to vasoconstrictor agonists
- 451 CANFIELD, S.P. & CURWAIN, B.P. Gastric juice electrolyte secretion in conscious dogs with gastric fistulae and its modification by FPL 52694, a mast cell stabilizing agent
- 459 INOUE, T., ITO, Y. & TAKEDA, K. The effects of 2-nicotinamidoethyl nitrate on smooth muscle cells of the dog mesenteric artery and trachea
- 471 HÄGGBLAD, J. & HEILBRONN, E. Release of acetylcholine at the motor endplate of the rat - evidence against a muscarinic acetylcholine autoreceptor
- 477 GILLESPIE, J.S. & MACRAE, I.M. The contractile response to and the release of noradrenaline by transmural nerve stimulation in the guinea-pig vas deferens and a comparison with the response to noradrenaline
- 485 SPEDDING, M. Functional interactions of calcium-antagonists in K⁺-depolarized smooth muscle
- 489 CLARK, A.L., HOBBIER, F. & TERRAR, D.A. Effects of pancuronium and hexamethonium on paraoxon-induced twitch potentiation and antidromic firing in rat phrenic nerve diaphragm preparations
- 497 CAMP, R.D.R., COUTTS, A.A., GREAVES, M.W., KAY, A.B. & WALPORT, M.J. Responses of human skin to intradermal injection of leukotrienes C₄, D₄ and B₄
- 503 MORLEY, J., PAGE, C.P. & PAUL, W. Inflammatory actions of platelet activating factor (Paf-acether) in guinea-pig skin
- 511 KODAMA, I., KONDO, N. & SHIBATA, S. Effects of amrinone on the transmembrane action potential of rabbit sinus node pacemaker cells
- 519 KARAKI, H., MURAKAMI, K., NAKAGAWA, H. & URAKAWA, N. The inhibitory effects of N²-dansyl-L-arginine-4-*t*-butylpiperidine amide (TI233) on contraction of vascular and intestinal smooth muscle
- 527 BENFEY, B.G., VARMA, D.R. & YUE, T.L. Myocardial inotropic responses and adrenoceptors in protein-deficient rats
- 533 FRESLON, J.L. & GIUDICELLI, J.F. Compared myocardial and vascular effects of captopril and dihydralazine during hypertension development in spontaneously hypertensive rats
- 545 WHITTLE, B.J.R. The potentiation of taurocholate-induced rat gastric erosions following parenteral administration of cyclo-oxygenase inhibitors
- 553 FOSTER, R.W., SMALL, R.C. & WESTON, A.H. The spasmogenic action of potassium chloride in guinea-pig trachealis
- 561 CLARKE, K.A. & STIRK, G. Motoneurone excitability after administration of a thyrotrophin releasing hormone analogue
- 567 BOKISCH, A.J. & WALKER, R.J. Interactions between alinidine and responses to acetylcholine, dopamine and 5-hydroxytryptamine of specific *Helix* central neurones
- 573 COATS, R.A. Effects of apamin on α-adrenoceptor-mediated changes in plasma potassium in guinea-pigs
- 581 JUORIO, A.V. & McQUADE, P.S. Effects of various antipsychotic drugs upon the striatal concentrations of *para*-hydroxyphenylacetic acid and *meta*-hydroxyphenylacetic acid in the mouse
- 587 CLARKE, P.B.S. & KUMAR, R. Characterization of the locomotor stimulant action of nicotine in tolerant rats

SHORT COMMUNICATIONS

- 597 FOLKERTS, G., NIJKAMP, F.P. & VAN OOSTERHOUT, A.J.M. Induction in guinea-pigs of airway hyperreactivity and decreased lung β -adrenoceptor number by 15-hydroperoxy-arachidonic acid
- 600 BURGEN, A.S.V. & HARBIRD, C.J. The effect of sulphhydryl block on the binding of H_1 -antagonists to the muscarinic receptor

PAPERS

- 603 BACH-DIETERLE, Y., HOLDEN, W.E. & JUNOD, A.F. A comparison of adenine and some derivatives on pig isolated tracheal muscle
- 613 DRAZEN, J.M., LACOUTURE, P.G. & MILLER, M.J. Inhibition by propranolol of the contractile response of the rat diaphragm to tetanic field stimulation *in vitro*
- 619 BARKER, J.L., MCBURNEY, R.N. & MATHERS, D.A. Convulsant-induced depression of amino acid responses in cultured mouse spinal neurones studied under voltage clamp
- 631 EDVINSSON, L. & FREDHOLM, B.B. Characterization of adenosine receptors in isolated cerebral arteries of cat
- 639 FREDHOLM, B.B. & SANDBERG, G. Inhibition by xanthine derivatives of adenosine receptor-stimulated cyclic adenosine 3',5'-monophosphate accumulation in rat and guinea-pig thymocytes
- 645 HUIDOBRO-TORO, J.P. & YOSHIMURA, K. Pharmacological characterization of the inhibitory effects of neurotensin on the rabbit ileum myenteric plexus preparation
- 655 FRENCH, A.M. & SCOTT, N.C. The use of neurally released agonist in the measurement of antagonism at α -adrenoceptors
- 663 CAPARROTTA, L.F., FASSINA, G., GAION, R.M. & TESSARI, F. Age related changes in the antilipolytic effects of nicotinic acid in rat adipose tissue
- 671 MAKITA, Y. Effects of adrenoceptor agonists and antagonists on smooth muscle cells and neuromuscular transmission in the guinea-pig renal artery and vein
- 681 MILENOV, E., NIEBER, K., NIEDRICH, H., OEHME, P. & VOGT, W.-E. Effect of desamino-cholecystokinin-octapeptide (CCK-7) on the intraluminal pressure and myoelectrical activity of the gall-bladder, stomach, and small intestine in conscious dogs
- 691 WRIGGLESWORTH, S.J. Heterogeneity of 5-hydroxytryptamine receptors in the rat uterus and stomach strip
- 699 FOSTER, P.S., GOLDIE, R.G., PATERSON, J.W. & SPINA, D. Effect of hypothermia on β -adrenoceptor-mediated relaxation of pig bronchus
- 703 BLACKMAN, J.G. & MCCAIG, D.J. Studies on an isolated innervated preparation of guinea-pig trachea
- 711 HEITZ, A., SCHWARTZ, J. & VELLY, J. β -Adrenoceptors of the human myocardium: determination of β_1 and β_2 subtypes by radioligand binding
- 719 CHURCH, M.K., HOLGATE, S.T. & HUGHES, P.J. Adenosine inhibits and potentiates IgE-dependent histamine release from human basophils by an A_2 -receptor mediated mechanism
- 727 ELLIOTT, J., JHAMANDAS, K., NOTMAN, H. & SUTAK, M. Antagonism of enkephalin action on acetylcholine release by methylxanthines: lack of a purine link
- 735 MAEDA-HAGIWARA, M., WATANABE, H. & WATANABE, K. Enhancement by intracerebroventricular thyrotropin-releasing hormone of indomethacin-induced gastric lesions in the rat
- 741 CHAHL, L. A. Contracture of guinea-pig ileum on withdrawal of methionine⁵-enkephalin is mediated by substance P
- 751 FINET, M., GODFRAIND, T. & NOEL, F. The inotropic effect of ouabain and its antagonism by dihydroouabain in rat isolated atria and ventricles in relation to specific binding sites
- 761 NISHI, K. & OYAMA, Y. Barbiturates increase the rate of voltage-dependent inactivation of the calcium current in snail neurones