

British Journal of Pharmacology

PAPERS

- 765 DELGADO, C., TAMARGO, J. & TEJERINA, T. Electrophysiological effects of propafenone in untreated and propafenone-pretreated guinea-pig atrial and ventricular muscle fibres
- 777 ISHIKAWA, S. Actions of ATP and α, β -methylene ATP on neuromuscular transmission and smooth muscle membrane of the rabbit and guinea-pig mesenteric arteries
- 789 ISHIKAWA, S., KOMORI, K., NAGAO, T. & SUZUKI, H. Effects of diltiazem on electrical responses evoked spontaneously or by electrical stimulation in the antrum smooth muscle cells of the guinea-pig stomach
- 799 LÜLLMANN, H. & SCHWARZ, B. Effects of aminoglycoside antibiotics on bound calcium and contraction in guinea-pig atria
- 805 AMERINI, S., CARBONIN, P., CERBAI, E., GIOTTI, A., MUGELLI, A. & PAHOR, M. Electrophysiological mechanisms for the antiarrhythmic action of mexiletine on digitalis-, reperfusion- and reoxygenation-induced arrhythmias
- 817 RICCIOPPO NETO, F. & SPERELAKIS, N. Effects of lidocaine, procaine, procainamide and quinidine on electrophysiological properties of cultured embryonic chick hearts
- 827 COATS, R.A. The effects of adrenoceptor agonists and antagonists on plasma potassium concentration in anaesthetized guinea-pigs, rabbits and rats
- 837 WALLACE, J.L. & WHITTLE, B.J.R. Acceleration of recovery of gastric epithelial integrity by 16, 16-dimethyl prostaglandin E₂
- 843 ALLEN, S.L., BEECH, D.J., FOSTER, R.W., MORGAN, G.P. & SMALL, R.C. Electrophysiological and other aspects of the relaxant action of isoprenaline in guinea-pig isolated trachealis
- 855 BRAIN, S.D. & WILLIAMS, T.J. Inflammatory oedema induced by synergism between calcitonin gene-related peptide (CGRP) and mediators of increased vascular permeability
- 861 GATER, P.R., HAYLETT, D.G. & JENKINSON, D.H. Neuromuscular blocking agents inhibit receptor-mediated increases in the potassium permeability of intestinal smooth muscle
- 869 ALI, B.H. Effect of some monoamine oxidase inhibitors on the thiamin status of rabbits
- 877 GARCHA, G., IMRIE, P.R., MARLEY, E. & THOMAS D.V. [¹⁴C]- β -phenethylamine, its distribution after administration by various routes to cats, and the effects of monoamine oxidase inhibitors
- 889 JONES, D.R., PENNER, S.B. & SMYTH, D.D. Dietary and pharmacological alterations in endogenous angiotensin II: effect on noradrenaline pressor responsiveness in the rat
- 899 HAYES, A.G., SHEEHAN, M.J. & TYERS, M.B. Determination of the receptor selectivity of opioid agonists in the guinea-pig ileum and mouse vas deferens by use of β -funaltrexamine
- 905 FUDER, H., MUSCHOLL, E. & WOLF, K. Cholinesterase activity and exposure time to acetylcholine as factors influencing the muscarinic inhibition of [³H]-noradrenaline overflow from guinea-pig isolated atria
- 915 VOLUME INDEX
- 937 CUMULATIVE CONTENTS
- MEETINGS CALENDAR

British Journal of Pharmacology

CONTENTS

VOLUME 86 NUMBER 1 SEPTEMBER 1985

SHORT COMMUNICATION

- 3 CUTHBERT, A.W., KIRKLAND, S.C. & MACVINTISH, L.C. Kinin effects on ion transport in monolayers of HCA-7 cells, a line from a human colonic adenocarcinoma

PAPERS

- 7 BROWN, J., MARSHALL, R.J. & WINSLOW, E. Effects of selective channel blocking agents on contractions and action potentials in K^+ -depolarized guinea-pig atria
- 19 CORRADETTI, R., KING, E., NISTRI, A., ROVIRA, C. & SIVILOTTI, L. Pharmacological characterization of D-aminophosphonovaleric acid antagonism of amino acid and synaptically evoked excitations on frog motoneurons *in vitro*: an intracellular study
- 27 FINET, M., GODFRAIND, T. & KHOURY, G. The positive inotropic action of the nifedipine analogue, Bay K 8644, in guinea-pig and rat isolated cardiac preparations
- 33 CHAOULOFF, F., ELGHOZI, J.L., GUEZENNEC, Y. & LAUDE, D. Effects of conditioned running on plasma, liver and brain tryptophan and on brain 5-hydroxytryptamine metabolism of the rat
- 43 CHANCE, E., PACIOREK, P.M., TODD, M.H. & WATERFALL, J.F. Comparison of the cardiovascular effects of meptazinol and naloxone following haemorrhagic shock in rats and cats
- 55 BAKHLE, Y.S., MONCADA, S., DE NUCCI, G. & SALMON, J.A. Differential release of eicosanoids by bradykinin, arachidonic acid and calcium ionophore A23187 in guinea-pig isolated perfused lung
- 63 JOHNSON, H.G. & McNEE, M.L. Adenosine-induced secretion in the canine trachea: modification by methylxanthines and adenosine derivatives
- 69 GRANT, T.L., McGRATH, J.C. & O'BRIEN, J.W. The influence of blood gases on α_1 - and α_2 -adrenoceptor-mediated pressor responses in the pithed rat
- 79 HAMILTON, C.A., REID, J.L. & VINCENT, J. Pharmacokinetic and pharmacodynamic studies with two α -adrenoceptor antagonists, doxazosin and prazosin in the rabbit
- 89 BAUMGARTNER, A., DRACK, E., HALTER, F. & SCHEURER, U. Effect of pinaverium bromide and verapamil on the motility of the rat isolated colon
- 95 MURAKOSHI, T., SUZUE, T. & TAMAI, S. A pharmacological study on respiratory rhythm in the isolated brainstem-spinal cord preparation of the newborn rat
- 105 ISHIDA, M. & SHINOZAKI, H. TI-233 as a glutamate channel blocker at the crayfish neuromuscular junction
- 117 CHEUNG, D.W. & MACKAY The effects of sodium nitroprusside and 8-bromo-cyclic GMP on electrical and mechanical activities of the rat tail artery
- 125 GRIMA, M., SCHWARTZ, J., SPACH, M.-O. & VELLY, J. [3H]-tetracaine binding on rat synaptosomes and sodium channels
- 131 HENRY, P.J., LULICH, K.M. & PATERSON, J.W. Experimental testing of Mackay's model for functional antagonism in the isolated costo-uterus of the rat
- 141 HICKS, P.E., LANGER, S.Z. & MACRAE, A.D. Differential blocking actions of idazoxan against the inhibitory effects of 6-fluoronoradrenaline and clonidine in the rat vas deferens
- 151 BERTHON, B., CAPIOD, T. & CLARET, M. Effects of noradrenaline, vasopressin and angiotensin on the Na-K pump in rat isolated liver cells
- 163 CLAGUE, R.U., EGLEN, R.M., STRACHAN, A.C. & WHITING, R.L. Action of agonists and antagonists at muscarinic receptors present on ileum and atria *in vitro*
- 171 ALLEN, S.L., FOSTER, R.W., SMALL, R.C. & TOWART, R. The effects of the dihydropyridine Bay K 8644 in guinea-pig isolated trachealis
- 181 COOK, N.S. & HOF, R.P. Cardioprotection by the calcium antagonist PN 200-110 in the absence and presence of cardiodepression
- 191 HASHIMOTO, T., HIRATA, M. & ITO, Y. A role for inositol 1,4,5-trisphosphate in the initiation of agonist-induced contractions of dog tracheal smooth muscle
- 201 ANWYL, R. & ROWAN, M.J. Frequency-dependent block of field potentials in the hippocampal slice caused by tricyclic antidepressants
- 209 BRAZELL, M.P., MARSDEN, C.A., NISBET, A.P. & ROUTLEDGE, C. The 5-HT₁ receptor agonist RU-24969 decreases 5-hydroxytryptamine (5-HT) release and metabolism in the rat frontal cortex *in vitro* and *in vivo*
- 217 BYRNE, N.G., HIRST, G.D.S. & LARGE, W.A. Electrophysiological analysis of the nature of adrenoceptors in the rat basilar artery during development

- 229 LEPRÁN, I., PARRATT, R., SZEKERES, L. & WAINWRIGHT, C.L. The effects of metoprolol and dazmegrel, alone and in combination, on arrhythmias induced by coronary artery occlusion in conscious rats
- 235 BULLOCK, G.R., LEPRÁN, I., PARRATT, J.R., SZEKERES, L. & WAINWRIGHT, C.L. Effects of a combination of metoprolol and dazmegrel on myocardial infarct size in rats
- 241 EKBLAD, E., HÅKANSON, R., SUNDLER, F. & WAHLESTEDT, C. Galanin: neromodulatory and direct contractile effects on smooth muscle preparations
- 247 IZUMI, H. Changes in the mechanical properties of the longitudinal and circular muscle tissues of the rat myometrium during gestation
- 259 COKER, S.J. & PARRATT, J.R. AH23848, a thromboxane antagonist, suppresses ischaemia and reperfusion-induced arrhythmias in anaesthetized greyhounds
- 265 FLAVAHAN, N.A., GRANT, T.L. GREIG, J. & McGRATH, J.C. Analysis of the α -adrenoceptor-mediated, and other, components in the sympathetic vasopressor responses of the pithed rat
- 275 HARRIS, J.B., POLLARD, S. & TESSERAUX, I. The effects of *Anemonia sulcata* toxin II on vertebrate skeletal muscle
- 287 MORTON, A.J. The effect of reserpine treatment on the extraneuronal uptake of [3 H]-isoprenaline into rat atria
- 297 HANDLEY, S.L. & SINGH, L. Modulation of 5-hydroxytryptamine-induced head-twitch response by drugs acting at GABA and related receptors
- 305 HOLZER, P. Stimulation and inhibition of gastrointestinal propulsion induced by substance P and substance K in the rat

VOLUME 86 NUMBER 2 OCTOBER 1985

SHORT COMMUNICATION

- 315 BARTHÓ, L., PETHŐ, G. & RÓNAI, Z. Theophylline-sensitive modulation of non-cholinergic excitatory neurotransmission in the guinea-pig ileum

PAPERS

- 319 KIMURA, I., KIMURA, M. & KIMURA, M. Modification by dantrolene, procaine and suxamethonium of caffeine-induced changes in aequorin luminescence transients and twitch tensions of directly-stimulated diaphragm muscle of mouse
- 327 DOCHERTY, J.R. & WARNOCK, P. An investigation of α -adrenoceptor responsiveness in the vas deferens of spontaneously hypertensive rats
- 335 DOCHERTY, J.R. & HYLAND, L. No evidence for differences between pre- and post-junctional α_2 -adrenoceptors
- 341 SZEKERES, L., UDVARY, É. & VÉGH, Á. Importance of myocardial blood flow changes in the protective action of diltiazem in a new model of myocardial ischaemia
- 351 CARAMONA, M.M. & SOARES-DA-SILVA, P. The effects of chemical sympathectomy on dopamine, noradrenaline and adrenaline content in some peripheral tissues
- 357 KLOCKGETHER, T., PARDOWITZ, I., SCHWARZ, M., SONTAG, K.H. & TURSKI, L. Evaluation of the muscle relaxant properties of a novel β -carboline, ZK 93423 in rats and cats
- 367 ADVENIER, C. & FRESLON, J.-L. The guinea-pig isolated bronchus for the *in vitro* study of small calibre airway reactivity
- 375 SHIRAKAWA, O. & TANAKA, C. Molecular characterization of muscarinic receptor subtypes in bovine cerebral cortex by radiation inactivation and molecular exclusion h.p.l.c.
- 385 KOBAYASHI, M., OHIZUMI, Y. & YASUMOTO, T. The mechanism of action of maitotoxin in relation to Ca^{2+} movements in guinea-pig and rat cardiac muscles
- 393 ALLELY, M.C. & UNGAR, A. Interactions of β -adrenoceptor antagonists and thyroid hormones in the control of heart rate in the dog
- 399 HUGHES, B. & PARRATT, J.R. The effects of the protease inhibitor, aprotinin, on the course of shock induced by endotoxin in cats
- 405 MIYAHARA, H. & SUZUKI, H. Effects of tyramine on noradrenaline outflow and electrical responses induced by field stimulation in the perfused rabbit ear artery
- 417 HARVEY, J., HOLGATE, S.T., PETERS, B.J., ROBINSON, C. & WALKER, J.R. Oxidative transformations of arachidonic acid in human dispersed lung cells: disparity between the utilization of endogenous and exogenous substrate
- 427 LIM, S.P. & MUIR, T.C. Mechanisms underlying the electrical and mechanical responses of the guinea-pig internal anal sphincter to field stimulation and to drugs
- 439 BOUGHTON-SMITH, N.K. & WHITTLE, B.J.R. Increased metabolism of arachidonic acid in an immune model of colitis in guinea-pigs
- 447 AALKJAER, C., MULVANY, M.J. & NYBORG, N.C.B. Atrial natriuretic factor causes specific relaxation of rat renal arcuate arteries
- 455 McCULLOCH, M.W., PAPANICOLAOU, M. & RAND, M.J. Evidence for autoinhibition of stimulation-induced noradrenaline release from vasa deferentia of the guinea-pig and rat
- 465 FOREMAN, J.C., RISING, T.J. & WEBBER, S.E. A study of the histamine H_2 -receptor mediating relaxation of the parenchymal lung strip preparation of the guinea-pig

- 475 FOREMAN, J.C., NORRIS, D.B., RISING, T.J. & WEBBER, S.E. The binding of [³H]-tiotidine to homogenates of guinea-pig lung parenchyma
- 483 BRADSHAW, C.M., SHERIDAN, R.D. & SZABADI, E. Excitatory neuronal responses to dopamine in the cerebral cortex: involvement of D₂ but not D₁ dopamine receptors
- 491 BRASS, E.P. & GARRITY, M.J. Effect of nonsteroidal anti-inflammatory drugs on glycogenolysis in isolated hepatocytes
- 497 AMBLER, J., BUTLER, K.D., KU, E.C., MAGUIRE, E.D., SMITH, J.R. & WALLIS, R.B. CGS 12970: a novel, long acting thromboxane synthetase inhibitor
- 505 DE BELLEROCHE, J. & GARDINER, I.M. Muscarinic receptors discriminated by pirenzepine are involved in the regulation of neurotransmitter release in rat nucleus accumbens
- 509 FREDHOLM, B.B., LINDGREN, E. & LINDSTRÖM, K. Treatment with N-ethylmaleimide selectively reduces adenosine receptor-mediated decreases in cyclic AMP accumulation in rat hippocampal slices
- 515 INOUE, M., MATSUO, T. & OGATA, N. Possible involvement of K⁺-conductance in the action of γ -aminobutyric acid in the guinea-pig hippocampus

VOLUME 86 NUMBER 3 NOVEMBER 1985

- 527 Frank R. Winton; Obituary

SHORT COMMUNICATION

- 529 MELAMED, E. & YODIM, M.B.H. Prevention of dopaminergic toxicity of MPTP in mice by phenylethylamine, a specific substrate of type B monoamine oxidase

PAPERS

- 533 HOULT, J.R.S. & NOURSHARGH, S. Phorbol myristate acetate enhances human polymorphonuclear neutrophil release of granular enzymes but inhibits chemokinesis
- 539 FUKKUDA, H., HOSOKI, E., ISHIDA, Y. & MORITOKI, H. Opioid receptor types on adrenergic nerve terminals of rabbit ear artery
- 547 DIEZ, J., TAMARGO, J. & VALENZUELA, C. Negative inotropic effect of somatostatin in guinea-pig atrial fibres
- 557 EMMS, H. & LEWIS, G.P. Sex and hormonal influences on platelet sensitivity and coagulation in the rat
- 565 CHAPAL, J., LOUBATIÈRES-MARIANI, M.M., PETIT, P. & ROYE, M. Evidence for an A₂-subtype adenosine receptor on pancreatic glucagon secreting cells
- 571 BLACK, J.W. & SHANKLEY, N.P. The isolated stomach preparation of the mouse: a physiological unit for pharmacological analysis
- 581 BLACK, J.W., LEFF, P. & SHANKLEY, N.P. Further analysis of anomalous pK_B values for histamine H₂-receptor antagonists on the mouse isolated stomach assay
- 589 BLACK, J.W., LEFF, P. & SHANKLEY, N.P. Pharmacological analysis of the pentagastrin-tiotidine interaction in the mouse isolated stomach
- 601 BLACK, J.W. & SHANKLEY, N.P. Pharmacological analysis of muscarinic receptors coupled to oxyntic cell secretion in the mouse stomach
- 609 BLACK, J.W. & SHANKLEY, N.P. Pharmacological analysis of the muscarinic receptors involved when McN-A 343 stimulates acid secretion in the mouse isolated stomach
- 619 FUJINUMA, S., KAMIKAWA, Y. & SHIMO, Y. Pharmacological characterization of the histamine receptor in the isolated muscularis mucosae of the guinea-pig oesophagus
- 627 OTTENHOF, M., UFKES, J.G.R. & VAN ROOIJ, H.H. The effect of prednisolone and ketotifen on the antigen-induced bronchoconstriction and mediator release in rat isolated lungs
- 637 SKOLNICK, P., WEISSMAN, B.A. & YODIM, M.B.H. Monoaminergic involvement in the pharmacological actions of buspirone
- 645 NAKAJIMA, T., NOMOTO, K., OHFUNE, Y., SHIRATORI, Y., TAKEMOTO, T., TAKEUCHI, H. & WATANABE, K. Effects of glutamic acid analogues on identifiable giant neurones, sensitive to β -hydroxy-L-glutamic acid, of an African giant snail (*Achatina fulica* Férussac)
- 655 MILLER, R.C. & STOCLET, J.-C. Modulation by endothelium contractile responses in rat aorta in absence and presence of flunarizine
- 663 CURTIS, M.J., MACLEOD, B.A. & WALKER, M.J.A. The effects of ablations in the central nervous system on arrhythmias induced by coronary occlusion in the rat
- 671 LEE, C.-M. Potentiation by cholinceptor agonists of contractions to field stimulation of rat vas deferens
- 677 REEVES, J.J. & STABLES, R. Effects of indomethacin, piroxicam and selected prostanoids on gastric acid secretion by the rat isolated gastric mucosa
- 685 BARNES, P.J., CUSS, F.M. & PALMER, J.B. The effect of airway epithelium on smooth muscle contractility in bovine trachea
- 693 BENNETT, A., MELHUISE, P.B. & STAMFORD, I.F. Carbenoxolone and deglycyrrhized liquorice have little or not effect on prostanoid synthesis by rat gastric mucosa *ex vivo*

- 697 FENIUK, W., HUMPHREY, P.P.A., PERREN, M.J. & WATTS, A.D. A comparison of 5-hydroxytryptamine receptors mediating contraction in rabbit aorta and dog saphenous vein: evidence for different receptor types obtained by use of selective agonists and antagonists
- 705 BROUGHTON PIPKIN, F. & CHINNERY, E.. The effect of a calcium antagonist, nitrendipine, on the responses of isolated strips of human, chorionic plate artery to prostaglandins E₂ and E₁
- 711 BYRNE, N.G. & LARGE, W.A. Evidence for two mechanisms of depolarization associated with α_1 -adrenoceptor activation in the rat anococcygeus muscle
- 723 BLABER, L.C., FRYER, A.D. & MACLAGAN, J. Neuronal muscarinic receptors attenuate vagally-induced contraction of feline bronchial smooth muscle
- 729 FILE, S.E. & PELLOW, S. The effects of triazolobenzodiazepines in two animal tests of anxiety and in the holeboard
- 737 BENTLEY, G.A. & COPELAND, I.W. The effect of chronic haloperidol treatment on some cardiovascular parameters in cats
- 743 FAGG, G.E. & LANTHORN, T.H. Cl⁻/Ca²⁺-dependent L-glutamate binding sites do not correspond to 2-amino-4-phosphonobutanoate-sensitive excitatory amino acid receptors
- 753 HINDLEY, S.W., HOBBS, A., PATERSON, I.A. & ROBERTS, M.H.T. The effects of methyl β -carboline-3-carboxylate on social interaction and locomotor activity when microinjected into the nucleus raphé dorsalis of the rat

VOLUME 86 NUMBER 4 DECEMBER 1985

PAPERS

- 765 DELGADO, C., TAMARGO, J. & TEJERINA, T. Electrophysiological effects of propafenone in untreated and propafenone-pretreated guinea-pig atrial and ventricular muscle fibres
- 777 ISHIKAWA, S. Actions of ATP and α,β -methylene ATP on neuromuscular transmission and smooth muscle membrane of the rabbit and guinea-pig mesenteric arteries
- 789 ISHIKAWA, S., KOMORI, K., NAGAO, T. & SUZUKI, H. Effects of diltiazem on electrical responses evoked spontaneously or by electrical stimulation in the antrum smooth muscle cells of the guinea-pig stomach
- 799 LÜLLMANN, H. & SCHWARZ, B. Effects of aminoglycoside antibiotics on bound calcium and contraction in guinea-pig atria
- 805 AMERINI, S., CARBONIN, P., CERBAI, E., GIOTTI, A., MUGELLI, A. & PAHOR, M. Electrophysiological mechanisms for the antiarrhythmic action of mexiletine on digitalis-, reperfusion- and reoxygenation-induced arrhythmias
- 817 RICCIOPPO NETO, F. & SPERELAKIS, N. Effects of lidocaine, procaine, procainamide and quinidine on electrophysiological properties of cultured embryonic chick hearts
- 827 COATS, R.A. The effects of adrenoceptor agonists and antagonists on plasma potassium concentration in anaesthetized guinea-pigs, rabbits and rats
- 837 WALLACE, J.L. & WHITTLE, B.J.R. Acceleration of recovery of gastric epithelial integrity by 16, 16-dimethyl prostaglandin E₂
- 843 ALLEN, S.L., BEECH, D.J., FOSTER, R.W., MORGAN, G.P. & SMALL, R.C. Electrophysiological and other aspects of the relaxant action of isoprenaline in guinea-pig isolated trachealis
- 855 BRAIN, S.D. & WILLIAMS, T.J. Inflammatory oedema induced by synergism between calcitonin gene-related peptide (CGRP) and mediators of increased vascular permeability
- 861 GATER, P.R., HAYLETT, D.G. & JENKINSON, D.H. Neuromuscular blocking agents inhibit receptor-mediated increases in the potassium permeability of intestinal smooth muscle
- 869 ALI, B.H. Effect of some monoamine oxidase inhibitors on the thiamin status of rabbits
- 877 GARCHA, G., IMRIE, P.R., MARLEY, E. & THOMAS D.V. [¹⁴C]- β -phenethylamine, its distribution after administration by various routes to cats, and the effects of monoamine oxidase inhibitors
- 889 JONES, D.R., PENNER, S.B. & SMYTH, D.D. Dietary and pharmacological alterations in endogenous angiotensin II: effect on noradrenaline pressor responsiveness in the rat
- 899 HAYES, A.G., SHEEHAN, M.J. & TYERS, M.B. Determination of the receptor selectivity of opioid agonists in the guinea-pig ileum and mouse vas deferens by use of β -funaltrexamine
- 905 FUDER, H., MUSCHOLL, E. & WOLF, K. Cholinesterase activity and exposure time to acetylcholine as factors influencing the muscarinic inhibition of [³H]-noradrenaline overflow from guinea-pig isolated atria
- 915 **VOLUME INDEX**
- 937 **CUMULATIVE CONTENTS**