Index Volumes 93–95 1988



British Journal of Pharmacology

CONTENTS

VOLUME 93 NUMBER 1 JANUARY 1988

- 3 KOFO-ABAYOMI, A. & LUCAS, P.D. A comparison between atria from control and streptozotocin-diabetic rats: The effects of dietary myo-inositol
- 9 GARDINER, S.M. & BENNETT, T. Involvement of β₂-adrenoceptor-mediated mechanisms in the cardiovascular responses to α₁- and α₂-adrenoceptor antagonism in conscious, unrestrained, Long Evans and Brattleboro rats
- 23 NEDERGAARD, O.A. & ABRAHAMSEN, J. Effect of chlorpromazine on sympathetic neuroeffector transmission in the rabbit isolated pulmonary artery and aorta
- 35 FORSYTH, K.M. & POLLOCK, D. Clonidine and morphine increase [3H]-noradrenaline overflow in mouse vas deferens
- 43 MARÍN, J., SÁNCHEZ-FERRER, C.F. & SALAICES, M. Effects of ouabain on isolated cerebral and femoral arteries of the cat: a functional and biochemical study
- 53 SÁNCHEZ-FERRER, C.F., MARÍN, J., LLUCH, M., VALVERDE, A. & SALAICES, M. Actions of vanadate on vascular tension and sodium pump activity in cat isolated cerebral and femoral arteries
- 61 GARRINO, M.G. & HENQUIN, J.C. Highly potent and stereoselective effects of the benzoic acid derivative AZ-DF 265 on pancreatic β-cells
- 69 CALCUTT, C.R., GANELLIN, C.R., GRIFFITHS, R., LEIGH, B.K., MAGUIRE, J.P., MITCHELL, R.C., MYLEK, M.E., PARSONS, M.E., SMITH, I.R. & YOUNG, R.C. Zolantidine (SK&F 95282) is a potent selective brain-penetrating histamine H₂-receptor antagonist
- 79 HEWSON, G., LEIGHTON, G.E., HILL, R.G. & HUGHES, J. The cholecystokinin receptor antagonist L364,718 increases food intake in the rat by attenuation of the action of endogenous cholecystokinin
- 85 FOLLENFANT, R.L., HARDY, G.W., LOWE, L.A., SCHNEIDER, C. & SMITH, T.W. Antinociceptive effects of the novel opioid peptide BW443C compared with classical opiates; peripheral versus central actions
- 93 ADCOCK, J.J., SCHNEIDER, C. & SMITH, T.W. Effects of codeine, morphine and a novel opioid pentapeptide BW443C, on cough, nociception and ventilation in the unanaesthetized guinea-pig
- 101 NAKAZATO, Y., OHGA, A., OLESHANSKY, M., TOMITA, U. & YAMADA, Y. Voltage-independent catecholamine release mediated by the activation of muscarinic receptors in guinea-pig adrenal glands
- 110 WALLIS, D.I. & DUN, N.J. A comparison of fast and slow depolarizations evoked by 5-HT in guinea-pig coeliac ganglion cells in vitro

- 121 COOK, N.S. & HOF, R.P. Cardiovascular effects of apamin and BRL 34915 in rats and rabbits
- 132 CRISCUOLI, M. & SUBISSI, A. Catecholamines released from the adrenal medulla exert a compensatory, protective effect at β₂-adrenoceptors against Paf-induced death in mice
- 139 AIZAWA, H., MIYAZAKI, N., SHIGEMATSU, N. & TOMOOKA, M. A possible role of airway epithelium in modulating hyperresponsiveness
- 146 SATO, Y., ISHII, K. & TAIRA, N. Differential antagonism by Bay K 8644 of vasodilator effects of nifedipine, diltiazem, nicorandil and nitroglycerin in dog femoral circulation
- 151 ANGCHANPEN, P., MARIN-GREZ, M. & SCHNER-MANN, J. Effect of dopamine antagonists on the urine flow of rats infused with hypotonic saline
- 156 TRANQUILLE, N. & EMEIS, J.J. Release of tissue-type plasminogen activator is induced in rats by leukotrienes C₄ and D₄, but not by prostaglandins E₁, E₂ and I₂
- CAMBRIDGE, D., WHITING, M.V. & ALLAN, G. Cardiac and renovascular effects in the anaesthetized dog of BW A575C: a novel angiotensin converting enzyme inhibitor with β-adrenoceptor blocking properties
- 176 BARRÈS, C., CERUTTI, C., MORIN, B. & SASSARD, J. Cardiovascular effects of two new calcium antagonists, PY 108-068 and PN 200-110, in conscious spontaneously hypertensive rats
- 185 ACRITOPOULOU-FOURCROY, S. & MARÇAIS-COLLADO, H. Involvement of α-adrenoceptors in myometrial responses in the pro-oestral rat
- 192 LIN, C.-I., SU, M.-T., LUK, H.-N. & WU, H.-L. Suppressive effects of somatostatin in dog Purkinje fibres
- FUJIWARA, T., SUMIMOTO, K., ITOH, T., SUZUKI, H. & KURIYAMA, H. Relaxing actions of procaterol, a β₂-adrenoceptor stimulant, on smooth muscle cells of the dog trachea
- 210 LISTER, R.G. & NUTT, D.J. Interactions of the imidazodiazepine Ro 15-4513 with chemical convulsants
- 215 ANDERSON, A.J. & HARVEY, A.L. Effects of the potassium channel blocking dendrotoxins on acetylcholine release and motor nerve terminal activity leukocytes
- 222 ESPLUGUES, J.V. & WHITTLE, B.J.R. Gastric mucosal damage induced by local intra-arterial administration of Paf in the rat
- 229 MARTIN, W., WHITE, D.G. & HENDERSON, A.H. Endothelium-derived relaxing factor and atriopeptin II elevate cyclic GMP levels in pig aortic endothelial cells

VOLUME 93 NUMBER 2 FEBRUARY 1988

SHORT COMMUNICATION

243 DUNN, P.M. & BLAKELEY, A.G.H. Suramin: a reversible P₂-purinoceptor antagonist in the mouse vas deferens

- 247 DE SARRO, G.B., MELDRUM, B.S. & NISTICÓ, G. Anticonvulsant effects of some calcium entry blockers in DBA/2 mice
- 257 FARQUHAR, R. & PART, N.J. The effect of dantrolene sodium on the discharge of alpha and gamma motoneurones to the soleus muscle in the decerebrate rat
- 267 AHN, H.Y., KARAKI, H. & URAKAWA, N. Inhibitory effects of caffeine on contractions and calcium movement in vascular and intestinal smooth muscle
- 275 BOURKE, J.E., BUNN, S.J., MARLEY, P.D. & LIVETT, B.G. The effects of neosurugatoxin on evoked catecholamine secretion from bovine adrenal chromaffin cells
- 281 DZIMIRI, N. & FRICKE, U. Lipophilicity and pharmacodynamics of cardiotonic steroids in guinea-pig isolated heart muscle preparations
- 289 LUKEY, P.T., ANDERSON, R. & DIPPENAAR, U.H.
 Benoxaprofen activates membrane-associated oxidative
 metabolism in human polymorphonuclear leucocytes by
 apparent modulation of protein kinase C
- 295 ADVENIER, C., DEVILLIER, P., MATRAN, R. & NALINE, E. Influence of epithelium on the responsiveness of guinea-pig isolated trachea to adenosine
- 303 SLEIGHT, A.J., MARSDEN, C.A., MARTIN, K.F. & PALFREYMAN, M.G. Relationship between extracellular 5-hydroxytryptamine and behaviour following monoamine oxidase inhibition and L-tryptophan
- 311 HONDEGHEM, L.M. & MATSUBARA, T. Quinidine blocks cardiac sodium channels during opening and slow inactivation in guinea-pig papillary muscle
- 319 BOYLE, J.P., DAVIES, J.M., FOSTER, R.W., GOOD, D.M., KENNEDY, I. & SMALL, R.C. Spasmogen action in guinea-pig isolated trachealis: involvement of membrane K*-channels and the consequences of K*-channel blockade
- 331 CROSS, J.A. & HORTON, R.W. Effects of chronic oral administration of the antidepressants, desmethylimi-pramine and zimelidine on rat cortical GABA_B binding sites: a comparison with 5-HT₂ binding site changes
- 337 BELL, C. Phentolamine lacks α₂-adrenoceptor agonist activity in anaesthetized dogs
- 341 COLLARD, K.J., WILKINSON, L.S. & LEWIS, D.J. Studies on the mechanism by which tryptophan efflux from isolated synaptosomes is stimulated by depolarization

- 349 CHOWDREY, H.S. & BISSET, G.W. Central inhibition by γ-aminobutyric acid of the release of vasopressin by carbachol in the rat
- 357 JECK, D., LINDMAR, R., LÖFFELHOLZ, K. & WANKE, M. Subtypes of muscarinic receptor on cholinergic nerves and atrial cells of chicken and guinea-pig hearts
- 367 OKAMURA, T., NAKAJIMA, M. & TODA, N. Neuroeffector actions of thromboxane B₂ in dog isolated mesenteric arteries
- 375 ALLELY, M.C. & ALPS, B.J. The effects of the novel anti-anginal compound RS 43285 on myocardial conduction in the anaesthetized dog
- 383 CRITCHLEY, J.A.J.H., MacLEAN, M.R. & UNGAR, A. Inhibitory regulation by co-released peptides of catecholamine secretion by the canine adrenal medulla
- 387 ALLAN, G., CAMBRIDGE, D., FOLLENFANT, M.J., STONE, D. & WHITING, M.V. A comparative study of the cardiovascular and biochemical actions of the imidazo [4,5b] pyridine sulmazole and an imidazo [4,5c] pyridine analogue, BW A746C
- 399 BRIGGS, C.A., McAFEE, D.A., McCAMAN, R.E. Long-term regulation of synaptic acetylcholine release and nicotinic transmission: the role of cyclic AMP
- 412 MAN, R.Y.K. Lysophosphatidylcholine-induced arrhythmias and its accumulation in the rat perfused heart
- 417 BROWN, C.M., McGRATH, J.C., MIDGLEY, J.M., MUIR, A.G.B., O'BRIEN, J.W., THONOOR, C.M., WILLIAMS, C.M. & WILSON, V.G. Activities of octopamine and synephrine stereoisomers on α-adrenoceptors
- 430 NISHIMURA, M. Zn²⁺ stimulates spontaneous transmitter release at mouse neuromuscular junctions
- 437 FREEDMAN, S.B., HARLEY, E.A. & IVERSEN, L.L. Relative affinities of drugs acting at cholinoceptors in displacing agonist and antagonist radioligands: the NMS/Oxo-M ratios as an index of efficacy at cortical muscarinic receptors
- 446 PENNER, S.B. & SMYTH, D.D. Chronic prazosin attenuates the natriuretic response to a modest saline load in anaesthetized rats
- 453 BOSE, D., ELLIOTT, D., KOBAYASHI, T., TEM-PLETON, J.F., KUMAR, V.P.S. & LABELLA, F.S. 14B-Hydroxyprogesterone binds to the digitalis receptor, inhibits the sodium pump and enhances cardiac contractility

VOLUME 93 NUMBER 3 MARCH 1988

- 465 BERRY, C.N., PROUTEAU, M. & LLOYD, K.G. Sulphasalazine and PhCL28A inhibit the formation of ethanol- and phenylbutazone-induced rat gastric ulcers: lack of involvement of endogenous prostaglandins?
- 473 BARR, H.A., NICHOLAS, T.E. & POWER, J.H.T. Control of alveolar surfactant in rats at rest and during prolonged hyperpnoea: pharmacological evidence for two tissue pools of surfactant
- 483 OTERO LOSADA, M.E. Changes in central GABAergic function following acute and repeated stress
- 491 KUNYSZ, E.L., MICHEL, A.D. & WHITING, R.L. Functional and direct binding studies using subtype selective muscarinic receptor antagonists
- 501 NGANELE, D.M., DELEONARDIS, V.M. & HINTZE, T.H. Celiprolol: a positive inotropic βadrenoceptor blocking agent in conscious dogs
- 509 GEPPETTI, P., FUSCO, B.M., MARABINI, S., MAGGI, C.A., FANCIULLACCI, M. & SICUTERI F. Secretion, pain and sneezing induced by the application of capsaicin to the nasal mucosa in man
- 515 FELETOU M. & VANHOUTTE, P.M. Endotheliumdependent hyperpolarization of canine coronary smooth muscle
- 525 ALLGAIER, C., DASCHMANN, B., HUANG, H.Y. & HERTTING G. Protein kinase C and presynaptic modulation of acetylcholine release in rabbit hippocampus
- 535 PELLEGRINI-GIAMPIETRO, D.E., BACCIOTTINI, L., CARLÀ, V. & MORONI, F. Morphine withdrawal in cortical slices: suppression by Ca²⁺-channel inhibitors of abstinence-induced [³H]-noradrenaline release
- 541 BUCKINGHAM, R.E. Studies on the antivasoconstrictor activity of BRL 34915 in spontaneously hypertensive rats; a comparison with nifedipine
- 553 LEIGHTON, G.E., RODRIGUEZ, R.E., HILL, R.G. & HUGHES, J. κ-Opioid agonists produce antinociception after i.v. and i.c.v. but not intrathecal administration in the rat
- 561 JOHNS, E.J. A study of the action of amlodipine on adrenergically regulated sodium handling by the kidney in normotensive and hypertensive rats
- 569 FÖRSTERMANN, U., ALHEID, U., FRÖLICH, J.C. & MÜLSCH, A. Mechanisms of action of lipoxygenase and cytochrome P-450-mono-oxygenase inhibitors in blocking endothelium-dependent vasodilatation
- 579 MARTIN, W., SMITH, J.A., LEWIS, M.J. & HEN-DERSON, A.H. Evidence that inhibitory factor extracted from bovine retractor penis is nitrite, whose acid-activated derivative is stabilized nitric oxide
- 587 CAMPBELL, C.A., CLAVENNA, C.F., WYNNE, J. & KLONER, R.A. Pentoxifylline does not reduce infarct size in a canine model of acute myocardial infarction
- 591 NISHIYE, E., ITOH, T. & KURIYAMA, H. Some effects of leukotriene D₄ on the mechanical properties of the guinea-pig basilar artery

- 601 BOVA, S., CARGNELLI, G. & LUCIANI, S. Na/Ca exchange and tension development in vascular smooth muscle: effect of amiloride
- 609 JACKSON, D.M. The effect of nedocromil sodium, sodium cromoglycate and codeine phosphate on citric acid-induced cough in dogs
- 613 LAI, F.M., TANIKELLA, T., COBUZZI, A. & CERVONI, P. Studies on the effects of viprostol in isolated small blood vessels and thoracic aorta of the rat
- 618 CLARK, C.R., BIRCHMORE, B., SHARIF, N.A., HUNTER, J.C., HILL, R.G. & HUGHES, J. PD117302: a selective agonist for the κ-opioid receptor
- 627 BOTTOMLEY, K.M.K., GRIFFITHS, R.J., RISING, T.J. & STEWARD, A. A modified mouse air pouch model for evaluating the effects of compounds on granuloma induced cartilage degradation
- 636 ITO, Y. & YOSHITOMI, T. Autoregulation of acetylcholine release from vagus nerve terminals through activation of muscarinic receptors in the dog trachea
- 647 CHANG, H.W., INOUE, K., BRUNI, A., BOARATO, E. & TOFFANO, G. Stereoselective effects of lysophosphatidylserine in rodents
- 654 GRIFFITH, T.M., EDWARDS, D.H., DAVIES, R.L., HARRISON, T.J. & EVANS, K.T. Endothelium-derived relaxing factor (EDRF) and resistance vessels in an intact vascular bed: a microangiographic study of the rabbit isolated ear
- 663 BOM, A.H., DUNCKER, D.J., SAXENA, P.R. & VERDOUW, P.D. 5-Hydroxytryptamine-induced tachycardia in the pig: possible involvement of a new type of 5-hydroxytryptamine receptor
- 672 STRETTON, C.D. & BARNES, P.J. Modulation of cholinergic neurotransmission in guinea-pig trachea by neuropeptide Y
- 679 INOMATA, N., ISHIHARA, T. & AKAIKE, N. Effects of diuretics on GABA-gated chloride current in frog isolated sensory neurones
- 684 ITO, S., KIMURA, A. & OHGA, A. Development of non-cholinergic, non-adrenergic excitatory and inhibitory responses to intramural nerve stimulation in rat stomach
- 693 BURTON, N.R., SMITH, D.A.S. & STONE, T.W. A quantitative pharmacological analysis of some excitatory amino acid receptors in the mouse neocortex in nitro.
- 702 SEKI, N., NISHIYE, E., ITOH, T., SUZUKI, H. & KURIYAMA, H. Electrical and mechanical properties of the capsular smooth muscles of the rabbit prostate in relation to the actions of the α₁-adrenoceptor blocker, YM-12617
- 715 SCHWÖRER H. & KILBINGER H. Enhancement of guinea-pig intestinal peristalsis by blockade of muscarinic M₁-receptors

VOLUME 93 NUMBER 4 APRIL 1988

- 723 KO, W.W.W., DAI, S. & CHAN, M.-Y. Ventricular noradrenaline concentrations in naïve and morphinetreated rats subjected to acute myocardial ischaemia
- 729 BÖHM, M., BRÜCKNER, R., NEUMANN, J., NOSE, M., SCHMITZ, W. & SCHOLZ, H. Adenosine inhibits the positive inotropic effect of 3-isobutyl-methylxanthine in papillary muscles without effect on cyclic AMP or cyclic GMP
- 739 KUMAKURA, S., KAMO, I. & TSURUFUJI, S. Role of bradykinin in the vascular permeability response induced by carrageenin in rats
- 747 TRIPATHI, R.M. & KAUSHAL, R. Effect of some non-steroidal anti-inflammatory drugs on ouabain-induced arrhythmias in guinea-pigs
- 751 TURNER, N.C. & DOLLERY, C.T. Release of arachidonic acid metabolites and histamine from sensitized guinea-pig lung following antigen challenge
- 759 ESTRELLA, D., GREEN, K.L., PRIOR, C., DEMP-STER, J., HALLIWELL, R.F., JACOBS, R.S., PARSONS, S.M., PARSONS, R.L. & MARSHALL, I.G. A further study of the neuromuscular effects of vesamicol (AH5183) and of its enantiomer specificity
- 769 WARD, S.G. & WESTWICK, J. Antagonism of the platelet activating factor-induced rise of the intracellular calcium ion concentration of U937 cells
- 775 OSAKA, T., KODAMA, I., TOYAMA, J. & YAMADA, K. Effects of bepridil on ventricular depolarization and repolarization of rabbit isolated hearts with particular reference to its possible proarrhythmic properties
- 781 MACLEAN, M.R. & HILEY, C.R. Effect of artificial respiratory volume on the cardiovascular responses to an α_1 and an α_2 -adrenoceptor agonist in the airventilated pithed rat
- 791 BULT, H., HEIREMANS, J.J., HERMAN, A.G. MAL-CORPS, C.M.A. & PEETERS, F.A.M. Prostacyclin biosynthesis and reduced 5-HT uptake after complement-induced endothelial injury in the dog isolated lung
- 803 SENN, N., LELIÈVRE, L.G., BRAQUET, P. & GARAY, R. High sensitivity of the Na⁺, K⁺-pump of human red blood cells to genins of cardiac glycosides
- 811 MURAMATSU, I., NISHIO, M., KIGOSHI, S. & UEMURA, D. Single ionic channels induced by palytoxin in guinea-pig ventricular myocytes
- 817 SNELL, K. & EVANS, C.A. Characterization of rat liver β-adrenoceptors during perinatal development as determined by [125I]-iodopindolol radioligand binding assays
- 827 OKUMURA, K., HASHIMOTO, Y., YASUHARA, M. & HORI, R. Regional myocardial ajmaline concentration and antiarrhythmic activity for ischaemia- and reperfusion-induced arrhythmias in rats
- 833 SILINSKY, E.M. The influence of 2-chloroadenosine on potassium-evoked and neurally-evoked acetylcholine secretion from normal or from latent active zones in the frog

- 839 SILINSKY, E.M. & HIRSH, J.K. The effect of reduced temperature on the inhibitory action of adenosine and magnesium ion at frog motor nerve terminals
- 846 WILLIAMS, S.H. & CONSTANTI, A. Quantitative effects of some muscarinic agonists on evoked surfacenegative field potentials recorded from the guinea-pig olfactory cortex slice
- 855 WILLIAMS, S.H. & CONSTANTI, A. A quantitative study of the effects of some muscarinic antagonists on the guinea-pig olfactory cortex slice
- 863 CONNICK, J.H. & STONE, T.W. Excitatory amino acid antagonists and endogenous aspartate and glutamate release from rat hippocampal slices
- 868 CONNICK, J.H. & STONE, T.W. Quinolinic acid effects on amino acid release from the rat cerebral cortex in vitro and in vivo
- 877 ALPS, B.J., CALDER, C., HASS, W.K. & WILSON, A.D. Comparative protective effects of nicardipine, flunarizine, lidoflazine and nimodipine against ischaemic injury in the hippocampus of the Mongolian gerbil
- 884 SOUHRADA, M., SOUHRADA, M.H. & SOUH-RADA, J.F. The inhibition of sodium influx attenuates airway response to a specific antigen challenge
- 893 GRISTWOOD, R.W., COMER, M.B., EDEN, R.J., TAYLOR, E.M., TURNER, J.A., WALLDUCK, M. & OWEN, D.A.A. In vivo pharmacological studies with SK&F 94836, a potent inotrope/vasodilator with a sustained duration of action
- 902 RIVERA-FILLAT, M.P., PALLARES-TRUJILLO, J., DOMENECH, C. & GRAU-OLIETE, M.R. Comparative uptake, retention and action of vincristine, vinblastine and vindesine on murine leukaemic lymphoblasts sensitive and resistant to vincristine
- 909 LENNART LUNDBLAD, K.A. & PERSSON, C.G.A.

 The epithelium and the pharmacology of guinea-pig tracheal tone in vitro
- 918 WILLS, M. & DOUGLAS, J.S. Aging and cholinergic responses in bovine trachealis muscle
- 925 PIQUÉ, J.M., YONEI, Y., WHITTLE, B.J.R., LEUNG, F.W. & GUTH, P.H. Indomethacin potentiates endotoxin-induced blood flow reduction and histological injury in rat gastric mucosa
- 932 JOHNSON, M.A., HILL, R.G. & HUGHES, J. A possible role for prostaglandins in the expression of morphine dependence in guinea-pig isolated ileum
- 937 PESKAR, B.M., HOPPE, U., LANGE, K. & PESKAR, B.A. Effects of non-steroidal anti-inflammatory drugs on rat gastric mucosal leukotriene C₄ and prostanoid release: relation to ethanol-induced injury
- 944 BOWERY, N.G., WONG, E.H.F. & HUDSON, A.L. Quantitative autoradiography of [3H]-MK-801 binding sites in mammalian brain

- 955 IZUMI, T. & BAKHLE, Y.S. Modification by steroids of pulmonary oedema and prostaglandin E₂ pharmacokinetics induced by endotoxin in rats
- 964 MOREAU, J.-L. & PIERI, L. Effects of an intrathecally administered benzodiazepine receptor agonist, antagonist and inverse agonist on morphine-induced inhibition of a spinal nociceptive reflex
- 969 DEBLOIS, D., BOUTHILLIER, J. & MARCEAU, F. Effect of glucocorticoids, monokines and growth factors on the spontaneously developing responses of the rabbit isolated aorta to des-Arg⁹-bradykinin
- 978 VARMA, D.R. Modification of transplacental distribution of salicylate in rats by acidosis and alkalosis
- 985 JONES, B.J., COSTALL, B., DOMENENY, A.M., KELLY, M.E., NAYLOR, R.J., OAKLEY, N.R. & TYERS, M.B. The potential anxiolytic activity of GR38032F, a 5-HT,-receptor antagonist
- 994 MORELAND, S., USHAY, M.P., KIMBALL, S.D., POWELL, J.R. & MORELAND, R.S. Pressor responses induced by Bay K 8644 involve both release of adrenal catecholamines and calcium channel activation

VOLUME 94 NUMBER 1 MAY 1988

SHORT COMMUNICATIONS

- BRAAS, K.M., MANNING, D.C., PERRY, D.C. & SNYDER, S.H. Bradykinin analogues: differential agonist and antagonist activities suggesting multiple receptors
- 6 HUTSON, P.A., HOLGATE, S.T. & CHURCH, M.K. Inhibition by nedocromil sodium of early and late phase bronchoconstriction and airway cellular infiltration provoked by ovalbumin inhalation in conscious sensitized guinea-pigs

- 9 KOMORI, S., KWON, S.C. & OHASHI, H. Effects of prolonged exposure to α,β-methylene ATP on nonadrenergic, non-cholinergic excitatory transmission in the rectum of the chicken
- 19 ISHIDA, Y., KOGA, N., NANBU, T., KIHARA, M. & KOBAYASHI, S. 4-Hydroxy-2-methyl-4-phenyl-1,2,3,4-tetrahydroisoquinoline (PI-OH): a new potentiator of sympathomimetic amines on the rat anococcygeus muscle
- 27 LAGENTE, V., DESQUAND, S., HADVARY, P., CIRINO, M., LELLOUCH-TUBIANA, A., LEFORT, J. & VARGAFTIG, B.B. Interference of the Paf antagonist Ro 19-3704 with Paf and antigen-induced bronchoconstriction in the guinea-pig
- 37 BLAKELEY, A.G.H., DUNN, P.M. & PETERSEN, S.A. A study of the actions of P₁-purinoceptor agonists and antagonists in the mouse vas deferens in vitro
- 47 PERKINS, M.N., FORSTER, P.L. & DRAY, A. The involvement of afferent nerve terminals in the stimulation of ion transport by bradykinin in rat isolated colon
- 55 KRUMPL, G., WINKLER, M., SCHNEIDER, W. & RABERGER, G. Comparison of the haemodynamic effects of the selective bradycardic agent UL-FS 49, with those of propranolol during treadmill exercise in dogs
- 65 BOUGHTON-SMITH, N.K., WALLACE, J.L., MORRIS, G.P. & WHITTLE, B.J.R. The effect of antiinflammatory drugs on eicosanoid formation in a chronic model of inflammatory bowel disease in the rat
- 73 ASANO, M., MASUZAWA, K. & MATSUDA, T. Evidence for reduced β-adrenoceptor coupling to adenylate cyclase in femoral arteries from spontaneously hypertensive rats

- 87 PRIESTLEY, T. & WOODRUFF, G.N. The inhibitory effect of somatostatin peptides on the rat anococcygeus muscle in vitro
- 97 BEN-ZVI, Z. & HURWITZ, A. Clonidine effects on disposition of xenobiotics in rats: inhibited elimination of flow-limited but not extraction-limited agents
- BULLOCH, J.M. & McGRATH, J.C. Blockade of vasopressor and vas deferens responses by α,β-methylene ATP in the pithed rat
- 109 SEBASTIÃO, A.M. & RIBEIRO, J.A. On the adenosine receptor and adenosine inactivation at the rat diaphragm neuromuscular junction
- 121 MAILMAN, D. Effects of atropine and tetrodotoxin on neurotensin-induced ileal sodium transport in the dog
- 130 TUMAN, R.W., TUTWILER, G.F., JOSEPH, J.M. & WALLACE, N.H. Hypoglycaemic and hypoketonaemic effects of single and repeated oral doses of methyl palmoxirate (methyl 2-tetradecylglycidate) in streptozotocin/alloxan-induced diabetic dogs
- 137 KENNETT, G.A. & CURZON, G. Evidence that mCPP may have behavioural effects mediated by central 5-HT_{1C} receptors
- 148 GUARD, S., WATLING, K.J. & WATSON, S.P. Neurokinin₃-receptors are linked to inositol phospholipid hydrolysis in the guinea-pig ileum longitudinal muscle-myenteric plexus preparation
- 155 WONG, P.Y.D. Inhibition by chloride channel blockers of anion secretion in cultured epididymal epithelium and intact epididymis of rats
- EVANS, T.W., DENT, G., ROGERS, D.F., AURSUD-KIJ, B., CHUNG, K.F. & BARNES, P.J. Effect of a Paf antagonist, WEB 2086, on airway microvascular leakage in the guinea-pig and platelet aggregation in man
- 169 FERRY, C.B. The origin of the anticholinesterase-induced repetitive activity of the phrenic nerve-diaphragm preparation of the rat *in vitro*
- 180 HARRIS, N.C. & RYALL, R.W. Mustard oil excites but does not inhibit nociceptive dorsal horn neurones in the rat: a presumed effect on A-delta fibres
- 185 HARRIS, N.C. & RYALL, R.W. Opiates distinguish spinal excitation from inhibition evoked by noxious heat stimuli in the rat: relevance to theories of analgesia

- 192 SWANSON, T.H. & PHILLIS, J.W. Effects of the muscarinic antagonists pirenzepine and gallamine on spontaneous and evoked responses of rat cerebral cortical neurones
- 199 GARDNER, A.L., CHOO, L.K. & MITCHELSON, F. Comparison of the effects of some muscarinic agonists on smooth muscle function and phosphatidylinositol turnover in the guinea-pig taenia caeci
- 212 GORMAN, P. Vasodilator response to dopamine in the ferret pulmonary circulation
- 219 DUNCKER, D.J., HEILIGERS, J.P.C., SAXENA, P.R. & VERDOUW, P.D. Nisoldipine and perfusion of post-stenotic myocardium in conscious pigs with different degrees of concentric stenosis
- 228 SCHUURKES, J.A.J., VAN BERGEN, P.J.E. & VAN NUETEN, J.M. Prejunctional muscarinic (M₁)-receptor interactions on guinea-pig ileum: lack of effect of cisapride

- 235 GREEN, K.A. & COTTRELL, G.A. Actions of baclofen on components of the Ca-current in rat and mouse DRG neurones in culture
- 246 BODEN, P. & HILL, R.G. Effects of cholecystokinin and related peptides on neuronal activity in the ventromedial nucleus of the rat hypothalamus
- 253 DILLON, J.S. & NAYLER, W.G. The Ca²⁺-antagonist and binding properties of the phenylalkylamine, anipamil
- 264 SHANKLEY, N.P., BLACK, J.W., GANELLIN, C.R. & MITCHELL, R.C. Correlation between log P_{OCT/H2O} and pK_B estimates for a series of muscarinic and histamine H₂-receptor antagonists

VOLUME 94 NUMBER 2 JUNE 1988

277 EDITORIAL - MITCHELL, J.F. The Consequences of Success

SHORT COMMUNICATIONS

- 279 HEINIGER, J., KISSLING-ALBRECHT, L., NEUENSCHWANDER, S., RÖSLI, R. & PLIŠKA, V. Antihaemophilic effect of vasopressin, deamino-(Darginine⁸)-vasopressin and adrenaline in sheep: proposal for an in vivo assay system
- WEIPERT, J., HOFFMANN, H., SIEBECK, M. & WHALLEY, E.T. Attenuation of arterial blood pressure fall in endotoxin shock in the rat using the competitive bradykinin antagonist Lys-Lys-[Hyp², Thi^{5.8}, DPhe⁷]-Bk (B4148)
- 285 STOESSL, A.J., DOURISH, C.T. & IVERSEN, S.D. The NK-3 tachykinin receptor agonist senktide elicits 5-HT-mediated behaviour following central or peripheral administration in mice and rats
- 288 GEPPETTI, P., MAGGI, C.A., PERRETTI, F., FRILLI, S. & MANZINI, S. Simultaneous release by bradykinin of substance P- and calcitonin gene-related peptide immunoreactivities from capsaicin-sensitive structures in guinea-pig heart
- 291 HRYSHKO, L.V. & BOSE, D. Impairment of Ca release from mammalian ventricular sarcoplasmic reticulum by the calcium channel agonist Bay K 8644

- 293 KYLE, H., WIDDICOMBE, J.G. & WILFFERT, B. Comparison of mucus flow rate, radiolabelled glycoprotein output and smooth muscle contraction in the ferret trachea in vitro
- 299 MORATINOS, J., CARPENE, C., DE PABLOS, I. & REVERTE, M. Role of α_1 and α_2 -adrenoceptors in catecholamine-induced hyperglycaemia, lipolysis and insulin secretion in conscious fasted rabbits

- 311 JOHNS, E.J. A study of the renal actions of amlodipine in the normotensive and spontaneously hypertensive rat
- 319 SHIMONI, Y., POSNER, P., SPINDLER, A.J. & NOBLE, D. The effects of prenylamine on single ventricular myocytes of guinea-pig
- 325 MURAKAWA, T., ALTURA, B.T., CARELLA, A. & ALTURA, B.M. Importance of magnesium and potassium concentration on basal tone and 5-HT-induced contractions in canine isolated coronary artery
- JAYAKODY, L., KAPPAGODA, T., SENARATNE, M.P.J. & THOMSON, A.B.R. Impairment of endothelium-dependent relaxation: an early marker for atherosclerosis in the rabbit
- 347 IMAI, S. & OHTA, H. Positive inotropic effects induced by carbachol in rat atria treated with isletactivating protein (IAP) – association with phosphatidylinositol breakdown
- MOHY EL-DIN, M.M. & MALIK, K.U. Differential effect of ω-conotoxin on release of the adrenergic transmitter and the vasoconstrictor response to noradrenaline in the rat isolated kidney
- 363 OLLERENSHAW, J.D., HEAGERTY, A.M. & SWALES, J.D. Noradrenaline stimulation of the phosphoinositide system: evidence for a novel hydrophobic inositol-containing compound in resistance arterioles
- 371 SIM, M.F., YATES, D.B., PARKINSON, R. & COOLING, M.J. Cardiovascular effects of the novel arteriovenous dilator agent, flosequinan in conscious dogs and cats
- 381 EBEIGBE, A.B., MÜLLER-SCHWEINITZER, E. & VOGEL, A. Effects of calcium channel blockade in canine saphenous veins after storage at -190°C
- 389 FUJIWARA, T., ITOH, T. & KURIYAMA, H. Regional differences in the mechanical properties of rabbit airway smooth muscle

- 397 BUTLER, A., HILL, J.M., IRELAND, S.J., JORDAN, C.C. & TYERS, M.B. Pharmacological properties of GR38032F, a novel antagonist at 5-HT, receptors
- 413 DOLIN, S.J., HALSEY, M.J. & LITTLE, H.J. Effects of the calcium channel activator Bay K 8644 on general anaesthetic potency in mice
- 423 HAMEL, E., EDVINSSON, L. & MACKENZIE, E.T. Heterogeneous vasomotor responses of anatomically distinct feline cerebral arteries
- 437 O'DONNELL, S.R. & BARNETT, C.J.K. pA₂ values for antagonists of platelet activating factor on aggregation of rabbit platelets
- 443 SALT, T.E., WILSON, D.G. & PRASAD, S.K. Antagonism of N-methylaspartate and synaptic responses of neurones in the rat ventrobasal thalamus by ketamine and MK-801
- 449 MacLEAN, M.R. & HILEY, C.R. Effects of enalapril on changes in cardiac output and organ vascular resistances induced by α₁- and α₂-adrenoceptor agonists in pithed normotensive rats
- 463 DURANTE, W., SEN, A.K. & SUNAHARA, F.A. Impairment of endothelium-dependent relaxation in aortae from spontaneously diabetic rats
- 469 PATER, C. & SAUVIAT, M.-P. Effects of cadmium on the slow inward current of frog heart muscle in relation to a lowering of pH in external solution
- 475 BYRNE, N.G. & LARGE, W.A. Mechanism of action of α-adrenoceptor activation in single cells freshly dissociated from the rabbit portal vein
- 483 DAVIES, M., WILKINSON, L.S. & ROBERTS, M.H.T. Evidence for excitatory 5-HT₂-receptors on rat brainstem neurones
- 492 DAVIES, M., WILKINSON, L.S. & ROBERTS, M.H.T. Evidence for depressant 5-HT₁-like receptors on rat brainstem neurones
- 500 TERRAR, D.A. & VICTORY, J.G.G. Effects of halothane on membrane currents associated with contraction in single myocytes isolated from guinea-pig
- 509 TERRAR, D.A. & VICTORY, J.G.G. Influence of halothane on electrical coupling in cell pairs isolated from guinea-pig ventricle
- 515 MITCHELL, H.W. Inhibitory effect of sodium cromoglycate on pulmonary responses to histamine administered after indomethacin in anaesthetized guinea-pigs
- 522 MITCHELL, H.W. & ADCOCK, J. Vagal mechanisms and the effect of indomethacin on bronchoconstrictor stimuli in the guinea-pig

- 528 TATESON, J.E., RANDALL, R.W., REYNOLDS, C.H., JACKSON, W.P., BHATTACHERJEE, P., SALMON, J.A. & GARLAND, L.G. Selective inhibition of arachidonate 5-lipoxygenase by novel acetohydroxamic acids: biochemical assessment in vitro and ex vivo
- 540 PAYNE, A.N., GARLAND, L.G., LEES, I.W. & SALMON, J.A. Selective inhibition of arachidonate 5-lipoxygenase by novel acetohydroxamic acids: effects on bronchial anaphylaxis in anaesthetized guinea-pigs
- 547 HIGGS, G.A., FOLLENFANT, R.L. & GARLAND, L.G. Selective inhibition of arachidonate 5-lipoxygenase by novel acetohydroxamic acids: effects on acute inflammatory responses
- 552 DRESEL, P.E. & OGBAGHEBRIEL, A. Blockade of the inotropic effect of Bay K 8644 by cytochalasin-B and phloretin
- 557 RUSKO, J. & BAUER, V. Calcium and the activation of the α₁-adrenoceptors in the guinea-pig taenia caeci
- 566 SCHIAVONE, A., SAGRADA, A., MICHELETTI, R. & GIACHETTI, A. Pharmacological characterization of muscarinic receptors involved in McN-A-343-induced effects on intestinal motility and heart rate in conscious dogs
- 573 RUSKOAHO, H. Effect of atenolol and pindolol on the phorbol ester-induced coronary vasoconstriction in the isolated perfused heart of the rat
- 584 JAKOB, H., NAWRATH, H. & RUPP, J. Adrenoceptor-mediated changes of action potential and force of contraction in human isolated ventricular heart muscle
- 591 EGLEN, R.M. & WHITING, R.L. The action of prostanoid receptor agonists and antagonists on smooth muscle and platelets
- 602 FOSTER, A.C. & TRIDGETT, R. Comparison of the binding of radiolabelled neurokinin A and eledoisin in rat cortex synaptic membranes
- 609 WARD-ROUTLEDGE, C., MARSHALL, P. & MARSDEN, C.A. Involvement of central α and β -adrenoceptors in the pressor response to electrical stimulation of the rostral ventrolateral medulla in rats
- 620 SADOSHIMA, J., TOKUTOMI, N. & AKAIKE, N. Effects of neostigmine and physostigmine on the acetylcholine receptor-ionophore complex in frog isolated sympathetic neurones
- 625 CARROLL, J.A., SHAW, J.S. & WICKENDEN, A.D. The physiological relevance of low agonist affinity binding at opioid μ -receptors

VOLUME 94 NUMBER 3 JULY 1988

PAPERS

635 BENOIT, E., CARRATÙ, M.R. & MITOLO-CHIEPPA, D. Interactions between molecules of a steroid anaesthetic (alphaxalone) and ionic channels of nodal membrane in voltage-clamped myelinated nerve fibre 647 DONNERER, J. & LEMBECK, F. Neonatal capsaicin treatment of rats reduces ACTH secretion in response to peripheral neuronal stimuli but not to centrally acting stressors

- 653 SCOTT, R.H., McGUIRK, S.M. & DOLPHIN, A.C. Modulation of divalent cation-activated chloride ion currents
- DAFFONCHIO, L., PAYNE, A.N., LEES, I.W. & WHITTLE, B.J.R. Immediate anaphylactic bronchoconstriction induces airway hyperreactivity in anaesthetized guinea-pigs
- 669 WESSLER, I. & ANSCHÜTZ, S. β-Adrenoceptor stimulation enhances transmitter output from the rat phrenic nerve
- 675 DEVILLIER, P., ADVENIER, C., DRAPEAU, G., MARSAC, J. & REGOLI, D. Comparison of the effects of epithelium removal and of an enkephalinase inhibitor on the neurokinin-induced contractions of guinea-pig isolated trachea
- 685 MICHEL, M.C., PINGSMANN, A., BECKERINGH, J.J., ZERKOWSKI, H.-R., DOETSCH, N. & BRODDE, O.-E. Selective regulation of β_1 and β_2 -adrenoceptors in the human heart by chronic β -adrenoceptor antagonist treatment
- 693 DUNN, G., KOSHIKAWA, N., DURCAN, M.J. & CAMPBELL, I.C. An examination of experimental design in relation to receptor binding assays
- 699 MACKENZIE, I., KIRKPATRICK, K.A. & BUR-NSTOCK, G. Comparative study of the actions of AP₅A and α, β-methylene ATP on nonadrenergic, noncholinergic neurogenic excitation in the guinea-pig vas deferens
- 707 EKSTRÖM, J., HÁKANSON, R., MÁNSSON, B. & TOBIN, G. Tachykinin involvement in parasympathetic nerve-evoked salivation of the ferret
- 713 ISHAC, E.J.N. & DE LUCA, A. The influence of activation or inhibition of protein kinase C on the release of radioactivity from rat isolated atria labelled with [3H]-noradrenaline
- 721 KARWATOWSKA-PROKOPCZUK, E., CIABAT-TONI, G. & WENNMALM, Å. Effect of adenosine on the formation of prostacyclin in the rabbit isolated heart
- 729 McCAIG, D.J. & RODGER, I.W. Effects of leukotriene D₄ on the mechanical and electrical properties of guinea-pig isolated trachealis
- 737 GUILD, S., FREY, E.A., POCOTTE, S.L. & KEBA-BIAN, J.W. Adenosine 3',5'-cyclic monophosphate-mediated enhancement of calcium-evoked prolactin release from electrically permeabilised 7315c tumour cells
- 745 KEERY, R.J. & LUMLEY, P. AH6809, a prostaglandin DP-receptor blocking drug on human platelets
- 755 TUTTLE, R.S., YAGER, J. & NORTHRUP, N. Age and the antihypertensive effect of aspirin in rats
- 759 BROOKS, D.P., KOSTER, P.F., STASSEN, F.L., ALBRIGHTSON, C.R., HUFFMAN, W.F., WAS-SERMAN, M.A. & KINTER, L.B. Flushing and haemodynamic responses to vasopressin peptides in the rhesus monkey
- 765 HAWGOOD, B.J., SMITH, I.C.H. & STRONG, P.N. Early induction by crotoxin of biphasic frequency

- changes and giant m.e.p.ps in frog muscle
- 773 BARR, R.M., KORO, O., FRANCIS, D.M., BLACK, A.K., NUMATA, T. & GREAVES, M.W. The release of prostaglandin D₂ from human skin in vivo and in vitro during immediate allergic reactions
- 781 SZABO, B., HEDLER, L., SCHURR, C. & STARKE, K. Peripheral sympatho-inhibitory cardiovascular effects of opioid peptides in anaesthetized rabbits
- 789 AHN, H.Y. & KARAKI, H. Inhibitory effects of procaine on contraction and calcium movement in vascular and intestinal smooth muscles
- 797 TREHERNE, J.M. & YOUNG, J.M. [+H]-(+)-N-methyl-4-methyldiphenhydramine, a quaternary radioligand for the histamine H₁-receptor
- 811 TREHERNE, J.M. & YOUNG, J.M. Temperature-dependence of the kinetics of the binding of [³H]-(+)-N-methyl-4-methyldiphenhydramine to the histamine H₁-receptor: comparison with the kinetics of [³H]-mepyramine
- 823 ALLEN, J.M., McCARRON, J.G., McHALE, N.G. & THORNBURY, K.D. Release of [3H]-noradrenaline from the sympathetic nerves to bovine mesenteric lymphatic vessels and its modification by α-agonists and antagonists
- HEY, J.A., ITO, T. & KOSS, M.C. α-Methyldopa produces mydriasis in the rat by stimulation of CNS α₂-adrenoceptors
- 839 ROWAN, E.G. & HARVEY, A.L. Potassium channel blocking actions of β -bungarotoxin and related toxins on mouse and frog motor nerve terminals
- 848 DONNERER, J., YAN, Z. & LEMBECK, F. Effects of clonidine and yohimbine on a C-fibre-evoked blood pressure reflex in the rat
- 853 TAYLOR, S.G., SOUTHERTON, J.S., WESTON, A.H. & BAKER, J.R.J. Endothelium-dependent effects of acetylcholine in rat aorta: a comparison with sodium nitroprusside and cromakalim
- 864 WAHLSTRÖM, A., PACIFICI, G.M., LINDSTRÖM, B., HAMMAR, L. & RANE, A. Human liver morphine UDP-glucuronyl transferase enantioselectivity and inhibition by opioid congeners and oxazepam
- 871 ERECIŃSKA, M., NELSON, D. & SILVER, I.A. Interactions of benztropine, atropine and ketamine with veratridine-activated sodium channels: effects on membrane depolarization, K⁺-efflux and neutrotransmitter amino acid release
- 882 HISHINUMA, S. & UCHIDA, M.K. Short-term desensitization of guinea-pig taenia caecum induced by carbachol occurs at intracellular Ca stores and that by histamine at H₁-receptors
- 890 BOGNAR, I.T., PALLAS, S., FUDER, H. & MUS-CHOLL, E. Muscarinic inhibition of [3H]-noradrenaline release on rabbit iris in vitro: effects of stimulation conditions on intrinsic activity of methacholine and pilocarpine

- 901 OTTOSSON, A., JANSEN, I. & EDVINSSON, L. Characterization of histamine receptors in isolated human cerebral arteries
- 908 VAN OOSTERHOUT, A.J.M., WOUTERSEN-VAN NIJNANTEN, F.M.A., FOLKERTS, G. & NIJKAMP, F.P. Effects of anterior hypothalamic lesions and shamoperations on bacterial endotoxin-induced non-specific airway hyperreactivity in vivo and in vitro
- 917 OHUCHI, K., SUGAWARA, T., WATANABE, M., HIRASAWA, N., TSURUFUJI, S., FUJIKI, H., CHRISTENSEN, S.B. & SUGIMURA, T. Analysis of the stimulative effect of thapsigargin, a non-TPA-type tumour promoter, on arachidonic acid metabolism in rat peritoneal macrophages
- 924 STAMFORD, J.A., KRUK, Z.L. & MILLAR, J. Actions of dopamine antagonists on stimulated striatal and limbic dopamine release: an in vivo voltammetric study
- 993 McDOWELL, J. & KITCHEN, I. Perinatal lead exposure alters the development of δ but not μ -opioid receptors in rat brain

- 938 HOLROYDE, M.C. & NORRIS, A.A. The effect of ozone on reactivity of upper and lower airways in guinea-pigs
- 947 BARLOW, R.B., SHEPHERD, M.K., TYDEMAN, H. & VEALE, M.A. The affinity of some acetylenic analogues of 4-DAMP methobromide for muscarinic receptors in guinea-pig ileum and atria
- 952 PERNOW, J., KAHAN, T. & LUNDBERG, J.M. Neuropeptide Y and reserpine-resistant vasoconstriction evoked by sympathetic nerve stimulation in the dog skeletal muscle
- 961 DALZIEL, H.H. & SNEDDON, P. The mechanism of action of AMP-induced inhibition of sympathetic neurotransmission in the isolated vas deferens of the rat and guinea-pig
- 968 HARBORNE, A.J. & SMITH, M.E. Effect of soluble factors from nerve and muscle on α-bungarotoxin binding sites in isolated sarcolemmal membranes of the rat
- 977 RANDALL, M.D. & HILEY, C.R. Effect of phenobarbitone pretreatment upon endothelium-dependent relaxation to acetylcholine in rat superior mesenteric arterial bed

VOLUME 94 NUMBER 4 AUGUST 1988

987 ELEVENTH GADDUM MEMORIAL LECTURE FLOWER, R.J. Lipocortin and the mechanism of action of the glucocorticoids

SHORT COMMUNICATIONS

- 1017 DE BELLEROCHE, J. & GARDINER, I.M. Inhibitory effect of 1,2,3,4-tetrahydro-9-aminoacridine on the depolarization-induced release of GABA from cerebral cortex
- 1020 HOGAN, J.C., LEWIS, M.J. & HENDERSON, A.H. In vivo EDRF activity influences platelet function

- 1023 SCARPIGNATO, C., GIOFFRÉ, M., GULINO, F.M. & MICALI, B. Different effects of bombesin on glucose- and tolbutamide-induced insulin release in man
- 1029 GRANTHAM, C.J. & BAKHLE, Y.S. Effect of acute lung injury on metabolism of adenine nucleotides in rat perfused lung
- 1037 KOSTRZEWSKA, A., LAUDÁNSKI, T. & BATRA, S. Effect of calcium and calmodulin antagonists on contractile responses of the human uterine artery
- 1043 CAMP, R.D.R., CUNNINGHAM, F.M., FINCHAM, N.J., GREAVES, M.W., KOBZA BLACK, A., MALLET, A.I. & WOOLLARD, P.M. Psoriatic skin lesions contain a novel lipid neutrophil chemokinetic compound which is distinct from known chemoattractant eicosanoids
- 1051 KUDO, Y., AKIYOSHI, E. & AKAGI, H. Identification of two taurine receptor subtypes on the primary afferent terminal of frog spinal cord

- 1057 CHAND, N., DIAMANTIS, W., MAHONEY, T.P. & SOFIA, R.D. Phospholipase A₂-induced airway hyperreactivity to cooling and acetylcholine in rat trachea: pharmacological modulation
- 1063 IKEGUCHI, S., HASHIMOTO, S., HORIE, M., KADOYA, M., KONISHI, T. & KAWAI, C. Electrophysiological effects of melperone on isolated rabbit heart muscles
- 1069 BOWSER-RILEY, F., DANIELS, S. & SMITH, E.B. Investigations into the origin of the high pressure neurological syndrome: the interaction between pressure, strychnine and 1,2-propandiols in the mouse
- 1077 WINN, M.J., CHOLERTON, S. & PARK, B.K. An investigation of the pharmacological response to vitamin K₁ in the rabbit
- 1085 DALY, C.J., McGRATH, J.C. & WILSON, V.G. Evidence that the population of postjunctional-adrenoceptors mediating contraction of smooth muscle in the rabbit isolated ear vein is predominantly α₂
- 1091 SMALL, R.C., BOYLE, J.P., CORTIJO, J., CURTIS-PRIOR, P.B., DAVIES, J.M., FOSTER, R.W. & HOFER, P. The relaxant and spasmogenic effects of some xanthine derivatives acting on guinea-pig isolated trachealis muscle
- 1101 CONNELL, L.A. & WALLIS, D.I. Responses to 5hydroxytryptamine evoked in the hemisected spinal cord of the neonate rat
- 1115 ANDERSON, G. & FENNESSY, M. Effects of REV 5901, a 5-lipoxygenase inhibitor and leukotriene antagonist, on pulmonary responses to platelet activating factor in the guinea-pig

- 1123 HUMPHREY, P.P.A., FENIUK, W., PERREN, M.J., CONNOR, H.E., OXFORD, A.W., COATES, I.H. & BUTINA, D. GR43175, a selective agonist for the 5-HT₁-like receptor in dog isolated saphenous vein
- 1133 CALIXTO, J.B., PIZZOLATTI, M.G. & YUNES, R.A. The competitive antagonistic effect of compounds from *Mandevilla velutina* on kinin-induced contractions of rat uterus and guinea-pig ileum in vitro
- 1143 RAMPART, M. & WILLIAMS, T.J. Evidence that neutrophil accumulation induced by interleukin-1 requires both local protein biosynthesis and neutrophil CD18 antigen expression in vivo
- 1149 CORDER, R. & WITHRINGTON, P.G. The actions of neuropeptide Y and peptide YY on the hepatic arterial and portal vascular beds of the anaesthetized dog
- 1157 BECK, K., CALAMAI, F., STADERINI, G. & SUSINI, T. Gastric motor responses elicited by vagal stimulation and purine compounds in the atropine-treated rabbit
- 1167 ITO, K., HAYASHI, K., NAKASHIMA, T. & MURAKAMI, T. Alteration of fate of vasoactive autacoids in pulmonary circulation following monocrotaline-induced lung vascular injury in rats
- 1175 ITO, K., NAKASHIMA, T., MURAKAMI, K. & MURAKAMI, T. Altered function of pulmonary endothelium following monocrotaline-induced lung vascular injury in rats
- 1184 ZHANG, M.-S. & ZHOU, E.-F. Methylflavonolamine hydrochloride inhibits contractions induced by noradrenaline, calcium and potassium in rabbit isolated aortic strips
- 1189 GILLESPIE, J.S. & SHENG, H. The lack of involvement of cyclic nucleotides in the smooth muscle relaxant action of BRL 34915
- 1198 FONTAINE, J. & LEBRUN, P. Pharmacological analysis of the effects of Bay K 8644 and organic calcium antagonists on the mouse isolated distal colon

- 1207 NORTHOVER, A.M. & NORTHOVER, B.J. Protection of rat atrial myocardium against electrical, mechanical and structural aspects of injury caused by exposure in vitro to conditions of simulated ischaemia
- 1218 PETTY, M.A. & MIR, A.K. Comparison of the cardiovascular effects of *trans*-diclofurime with different types of calcium antagonists in conscious spontaneously hypertensive rats
- 1225 STEWART, A.G. & DUSTING, G.J. Characterization of receptors for platelet-activating factor on platelets, polymorphonuclear leukocytes and macrophages
- 1234 HORTON, R.W., LOWTHER, S., CHIVERS, J., JENNER, P., MARSDEN, C.D. & TESTA, B. The interaction of substituted benzamides with brain benzodiazepine binding sites in vitro
- 1241 MURAMATSU, I. & YANAIHARA, N. Contribution of galanin to non-cholinergic, non-adrenergic transmission in rat ileum
- 1250 KINUGAWA, T., KOTAKE, H. & MASHIBA, H. Inhibitory actions of amoxapine, a tricyclic anti-depressant agent, on electrophysiological properties of mammalian isolated cardiac preparations
- 1257 PETERS, J.A., KIRKNESS, E.F., CALLACHAN, H., LAMBERT, J.J. & TURNER, A.J. Modulation of the GABA_A-receptor by depressant barbiturates and pregnane steroids
- 1270 KILBINGER, H. & STEIN, A. Dicyclomine discriminates between M₁- and M₂-muscarinic receptors in the guinea-pig ileum
- 1275 CURTIS, M.J. & WALKER, M.J.A. The mechanism of action of calcium antagonists on arrhythmias in early myocardial ischaemia: studies with nifedipine and DHM9

VOLUME 95 NUMBER 1 SEPTEMBER 1988

SHORT COMMUNICATIONS

- 3 HOLDEN-DYE, L. & WALKER, R.J. ZAPA, (Z)-3-[(aminoiminomethyl)thio]-2-propenoic acid hydrochloride, a potent agonist at GABA-receptors on the Ascaris muscle cell
- 6 NEWBERRY, N.R. & PRIESTLEY, T. A 5-HT₁-like receptor mediates a pertussis toxin-sensitive inhibition of rat ventromedial hypothalamic neurones in vitro

- 9 CÁRDENAS, A.M., MONTIEL, C., ARTALEJO, A.R., SÁNCHEZ-GARCÍA, P. & GARCÍA, A.G. Sodiumdependent inhibition by PN200-110 enantiomers of nicotinic adrenal catecholamine release
- 15 CHAKI, K., KAWAMURA, S., KISARA, K., SAKU-RADA, S., SAKURADA, T., SASAKI, Y., SATO, T. & SUSUKI, K. Antinociception and physical dependence produced by [D-Arg²]dermorphin tetrapeptide analogues and morphine in rats
- 23 DOWNING, S.J. & HOLLINGSWORTH, M. Nifedipine kinetics in the rat and relationship between its serum concentrations and uterine and cardiovascular effects
- 33 ONG, J., KERR, D.I.B. & JOHNSTON, G.A.R. Alfaxalone potentiates and mimics GABA-induced contractile responses in the guinea-pig isolated ileum

- 39 KITAZAWA, T., KONDO, H. & TEMMA, K. Presence of a substance P-like peptide in an acid extract of the intestinal bulb of the carp (Cyprinus carpio)
- 49 WEBBER, S.E. The effects of peptide histidine isoleucine and neuropeptide Y on mucus volume output from the ferret trachea
- 55 LEMOINE, H., SCHÖNELL, H. & KAUMANN, A.J. Contribution of β_1 and β_2 -adrenoceptors of human atrium and ventricle to the effects of noradrenaline and adrenaline as assessed with (-)-atenolol
- 67 COCKS, T.M., LITTLE, P.J., ANGUS, J.A. & CRAGOE, E.J., Jr. Amiloride analogues cause endothelium-dependent relaxation in the canine coronary artery in vitro: possible role of Na⁺/Ca²⁺ exchange
- 77 RIVERA-CALIMLIM, L., HARTLEY, D. & OSTERHOUT, D. Effects of ethanol and pantothenic acid on brain acetylcholine synthesis
- 83 STURGESS, N.C., KOZLOWSKI, R.Z., CARRING-TON, C.A., HALES, C.N. & ASHFORD, M.L.J. Effects of sulphonylureas and diazoxide on insulin secretion and nucleotide-sensitive channels in an insulin-secreting cell line.
- 95 REYNOLDS, I.J. & MILLER, R.J. Tricyclic antidepressants block N-methyl-D-aspartate receptors: similarities to the action of zinc
- VIDEBÆK, L.M., AALKJÆR, C. & MULVANY, M.J. Pinacidil opens K⁺-selective channels causing hyperpolarization and relaxation of noradrenaline contractions in rat mesenteric resistance vessels
- 109 DE DEYN, P.P. & MacDONALD, R.L. Effects of nonsedative anxiolytic drugs on responses to GABA and on diazepam-induced enhancement of these responses on mouse neurones in cell culture
- 121 LOWMAN, M.A., BENYON, R.C. & CHURCH, M.K.
 Characterization of neuropeptide-induced histamine release from human dispersed skin mast cells
- 131 GODFREY, P.P., WILKINS, C.J., TYLER, W. & WATSON, S.P. Stimulatory and inhibitory actions of excitatory amino acids on inositol phospholipid metabolism in rat cerebral cortex
- 139 LEPOR, H., BAUMANN, M. & SHAPIRO, E. The stereospecificity of LY253352 for α₁-adrenoceptor binding sites in the brain and prostate
- 145 MARRIOTT, J.F. A comparison of the effects of the calcium entry blockers, verapamil, diltiazem and flunarizine against contractions of the rat isolated aorta and portal vein
- 155 BOUGHTON-SMITH, N.K. & WHITTLE, B.J.R. Failure of the inhibition of rat gastric mucosal 5-lipoxygenase by novel acetohydroxamic acids to prevent ethanol-induced damage
- OKAMOTO, T., KURAHASHI, K., FUJIWARA, M. & OIKAWA, H. GABA_A-receptor-mediated inhibition of the delayed increase in intragastric pressure to stimulation of vagal afferent fibres in cats
- 169 PETTIPHER, E.R., HENDERSON, B., MONCADA, S. & HIGGS, G.A. Leucocyte infiltration and cartilage proteoglycan loss in immune arthritis in the rabbit

- 177 CHIBA, S. & TSUKADA, M. Possible mechanism of acetaldehyde-induced noradrenaline release from sympathetic nerve terminals in isolated blood vessels.
- 183 KARAKI, H., NAGASE, H., OHIZUMI, Y., SATAKE, N. & SHIBATA, S. Palytoxin-induced contraction and release of endogenous noradrenaline in rat tail artery
- 189 LÜCKHOFF, A., POHL, U., MÜLSCH, A. & BUSSE, R. Differential role of extra- and intracellular calcium in the release of EDRF and prostacyclin from cultured endothelial cells
- 197 GARDINER, S.M., COMPTON, A.M. & BENNETT, T. Regional haemodynamic effects of depressor neuropeptides in conscious, unrestrained, Long Evans and Brattleboro rats
- 209 POCOCK, G. & RICHARDS, C.D. The action of volatile anaesthetics on stimulus-secretion coupling in bovine adrenal chromaffin cells
- 218 SOARES-DA-SILVA, P. Evidence for dopaminergic cotransmission in dog mesenteric arterial vessels
- 225 MOLENAAR, P., MALTA, E., JONES, C.R., BUXTON, B.F. & SUMMERS, R.J. Autoradiographic localization and function of β-adrenoceptors on the human internal mammary artery and saphenous vein
- 234 LEFF, P. & DOUGALL, I.G. Estimation of opioid receptor agonist dissociation constants with β -chlornaltrexamine, an irreversible ligand which also displays agonism
- 241 ASANO, M., MASUZAWA, K. & MATSUDA, T. Role of stimulatory GTP-binding protein (Gs) in reduced βadrenoceptor coupling in the femoral artery of spontaneously hypertensive rats
- 252 MOREL, N. & GODFRAIND, T. Selective modulation by membrane potential of the interaction of some calcium entry blockers with calcium channels in rat mesenteric artery
- 259 BEDING-BARNEKOW, B., BRODIN, E. & HÅKANSON, R. Substance P, neurokinin A and neurokinin B in the ocular response to injury in the rabbit
- 268 ITO, Y. Pre- and post-junctional actions of procaterol, a β_2 -adrenoceptor stimulant, on dog tracheal tissue
- 275 CLARK, S.J., FOLLENFANT, R.L. & SMITH, T.W. Evaluation of opioid-induced antinociceptive effects in anaesthetized and conscious animals
- 284 KANMURA, Y., MISSIAEN, L. & CASTEELS, R.-Properties of intracellular calcium stores in pregnant rat myometrium
- 291 BLAKE, J.F., BROWN, M.W. & COLLINGRIDGE, G.L. A quantitative study of the actions of excitatory amino acids and antagonists in rat hippocampal slices
- BRAUNSTEIN, G., LABAT, C., BRUNELLESCHI, S., BENVENISTE, J., MARSAC, J. & BRINK, C. Evidence that the histamine sensitivity and responsiveness of guinea-pig isolated trachea are modulated by epithelial prostaglandin E₂ production
- 309 JONES, T.R., CHARETTE, L. & DENIS, D. Antigeninduced contraction of guinea-pig isolated trachea: studies with novel inhibitors and antagonists of arachidonic acid metabolites

SHORT COMMUNICATIONS

325 LIM, S.P. & BOLTON, T.B. A calcium-dependent rather than a G-protein mechanism is involved in the inward currrent evoked by muscarinic receptor stimulation in dialysed single smooth muscle cells of small intestine

- 329 OKAMOTO, T., KURAHASHI, K. & FUJIWARA, M. Effects of naloxone and opioid agonists on gastric excitatory responses to stimulation of the vagus nerve in cats
- MOLLOY, A.G. & WADDINGTON, J.L. Behavioural responses to the selective D₁-dopamine receptor agonist
 R-SK&F 38393 and the selective D₂-agonist RU 24213 in young compared with aged rats
- 343 SILBERSTEIN, D.J., BOWMER, C.J. & YATES, M.S. Dibromosulphophthalein: its pharmacokinetics and binding to hepatic cytosol proteins in rats with acute renal failure
- 353 CHRISTENSEN, S. & PETERSEN, J.S. Effects of furosemide on renal haemodynamics and proximal tubular reabsorption in conscious rats
- 361 SASSEN, L.M.A., DEN BOER, M.O., RENSEN, R.J., SAXENA, P.R. & VERDOUW, P.D. Bisoprolol improves perfusion of ischaemic myocardium in anaesthetized pigs
- 371 FARMER, S.G., CANNING, B.J. & WILKINS, D.E. Adenosine receptor-mediated contraction and relaxation of guinea-pig isolated tracheal smooth muscle: effects of adenosine antagonists
- 379 STEWART, A.G. & PIPER, P.J. Vasodilator actions of acetylcholine, A23187 and bradykinin in the guinea-pig isolated perfused heart are independent of prostacyclin
- 385 LI, C., MAJEWSKI, H. & RAND, M.J. Facilitation of noradrenaline release from sympathatic nerves in rat anococcygeus muscle by activation of prejunctional βadrenoceptors and angiotensin receptors
- 393 YANAGISAWA, T., HASHIMOTO, H. & TAIRA, N. The negative inotropic effect of nicorandil is independent of cyclic GMP changes: a comparison with pinacidil and cromakalim in canine atrial muscle
- 399 EBNER, F. & SIEGL, H. Diffusion characteristics dissociate ouabain binding from inotropic effect in guineapig myocardium
- 405 AL-DAMLUJI, S., ROSS, G., TOUZEL, R., PERRETT, D., WHITE, A. & BESSER, G.M. Modulation of the actions of tyrosine by α_2 -adrenoceptor blockade
- 413 BELVISI, M.G., CHUNG, K.F., JACKSON, D.M. & BARNES, P.J. Opioid modulation of non-cholinergic neural bronchoconstriction in guinea-pig in vivo
- 419 ANDRIANTSITOHAINA, R. & STOCLET, J.C. Potentiation by neuropeptide Y of vasoconstriction in rat resistance arteries
- 429 BREGESTOVSKI, P., BAKHRAMOV, A., DANILOV, S., MOLDOBAEVA, A. & TAKEDA, K. Histamine-induced inward currents in cultured endothelial cells from human umbilical vein

- 437 ROBERTS, M.H.T., DAVIES, M., GIRDLESTONE, D. & FOSTER, G.A. Effects of 5-hydroxytryptamine agonists and antagonists on the responses of rat spinal motoneurones to raphe obscurus stimulation
- 449 FEUERSTEIN, T.J., HEDLER, L., JACKISCH, R. & HERTTING, G. An in vitro model of 1-methyl-4-phenyl-pyridinium (MPP+) toxicity: incubation of rabbit caudate nucleus slices with MPP+ followed by biochemical and functional analysis
- 459 HISAYAMA, T., SHINKAI, M., TAKAYANAGI, I., MORIMOTO, S.I. & ISHIDA, K. Mechanism of action of nicotine in isolated iris sphincter preparations of rabbit
- 465 HISAYAMA, T., SHINKAI, M., TAKAYANAGI, I. & TOYODA, T. Mechanism of action of nicotine in isolated urinary bladder of guinea-pig
- 473 DALY, C.J., McGRATH, J.C. & WILSON, V.G. An examination of the postjunctional α-adrenoceptor subtypes for (-)-noradrenaline in several isolated blood vessels from the rabbit
- 485 DALY, C.J., McGRATH, J.C. & WILSON, V.G. Pharmacological analysis of postjunctional α-adrenoceptors mediating contractions to (-)-noradrenaline in the rabbit isolated lateral saphenous vein can be explained by interacting responses to simultaneous activation of α₁- and α₂-adrenoceptors
- 501 DALY, C.J., DUNN, W.R., McGRATH, J.C. & WILSON, V.G. An attempt at selective protection from phenoxybenzamine of postjunctional α-adrenoceptor subtypes mediating contractions to noradrenaline in the rabbit isolated saphenous vein
- 512 AKBARALI, H.I., BIEGER, D. & TRIGGLE, C.R. Inhibition of field stimulation-evoked relaxations in rat oesophageal smooth muscle by the calcium antagonist PN 200-110
- 519 AKBARALI, H.I., BIEGER, D., OHIA, S.E. & TRIGGLE, C.R. Similarity of relaxations evoked by BRL 34915, pinacidil and field-stimulation in rat oesophageal tunica muscularis mucosae
- 526 TSUDA, Y., OYAMA, Y., CARPENTER, D.O. & AKAIKE, N. Effects of Ca²⁺ on the transient outward current of single isolated *Helix* central neurones
- 531 SCHOEFFTER, P., DION, R. & GODFRAIND, T.

 Modulatory role of the vascular endothelium in the
 contractility of human isolated internal mammary
 artery
- 544 LU, W., OKAMURA, T., BIAN, K., INATOMI, A. & TODA, N. Prostaglandins involved in contractions by angiotensin II and bradykinin of isolated dog sphincter pupillae
- 551 WEBBER, S.E., SALONEN, R.O. & WIDDICOMBE, J.G. H₁- and H₂-receptor characterization in the tracheal circulation of sheep
- 562 JACQUES, C.A.J., SPUR, B.W., CREA, A.E.G. & LEE, T.H. The contractile activities of lipoxin A₄ and lipoxin B₄ for guinea-pig airway tissues

- 569 LEFF, P. & MARTIN, G.R. Differences in agonist dissociation constant estimates for 5-HT at 5-HT,-receptors: a problem of acute desensitization?
- 578 SHAW, J.S., ROURKE, J.D. & BURNS, K.M. Differential sensitivity of antinociceptive tests to opioid agonists and partial agonists
- 585 FLETCHER, E.J., MARTIN, D., ARAM, J.A., LODGE, D. & HONORÉ, T. Quinoxalinediones selectively block quisqualate and kainate receptors and synaptic events in rat neocortex and hippocampus and frog spinal cord in vitro
- 598 HEWSON, G., LEIGHTON, G.E., HILL, R.G. & HUGHES, J. Quipazine reduces food intake in the rat by activation of 5-HT₂-receptors
- 605 JULOU-SCHAEFFER, G. & FRESLON, J.L. Effects of ryanodine on tension development in rat aorta and mesenteric resistance vessels
- 614 BORCHGREVINK, P.C. & RYAN, M.P. Effects of magnesium, ouabain and bumetanide on ⁸⁶rubidium uptake in a human atrial cell line
- 619 ALOSACHIE, I. GODFRAIND, T. The modulatory role of vascular endothelium in the interaction of agon-

- ists and antagonists with α -adrenoceptors in the rat aorta
- 630 CHRISTIE, M.I. & LEWIS, M.J. Vascular smooth muscle sensitivity to endothelium-derived relaxing factor is different in different arteries
- 637 RALEVIC, V. & BURNSTOCK, G. Actions mediated by P₂-purinoceptor subtypes in the isolated perfused mesenteric bed of the rat
- 646 RANDALL, M.D., KAY, A.P. & HILEY, C.R. Endothelium-dependent modulation of the pressor activity of arginine vasopressin in the isolated superior mesenteric arterial bed of the rat
- 653 HOYLE, C.H.V., VLADIMIROVA, I.A. & BURN-STOCK, G. Pre- and postjunctional actions of purine and xanthine compounds in the guinea-pig caecum circular muscle
- 664 CORDER, R. & WITHRINGTON, P.G. A comparison of the differential effects of vasoactive intestinal peptide and peptide histidine isoleucine on the vascular and capsular smooth muscle of the dog sleen

VOLUME 95 NUMBER 3 NOVEMBER 1988

SHORT COMMUNICATION

673 ÖHLÉN, A., WIKLUND, N.P., PERSSON M. G. & HEDQVIST P. Calcitonin gene-related peptide desensitizes skeletal muscle arterioles to substance P in vivo

- 675 THIJSSEN, H.H.W., BAARS, L.G.M. & VERVOORT-PETERS, H.T.M. Vitamin K 2,3-epoxide reductase: the basis for stereoselectivity of 4-hydroxycoumarin anti-coagulant activity
- 683 DUVAL, N., LEE, C.R., EON, M.T., PETRUZZO, P. & LANGER S.Z. The β_1 -adrenoceptor antagonist, betaxolol, is not released from the heart of the anaesthetized dog during sympathetic nerve stimulation
- 689 WELFORD, L.A. & ANDERSON, W.H. Purine receptors and guinea-pig trachea: evidence for a direct action of ATP
- 695 BULLOCH, J.M. & McGRATH, J.C. Selective blockade by nifedipine of 'purinergic' rather than adrenergic nerve-mediated vasopressor responses in the pithed rat
- 701 PHILLIPS, J.A. & HOULT, J.R.S. Secretory effects of kinins on colonic epithelium in relation to prostaglandins released from cells of the lamina propria
- 713 MURPHY, V.F. & WANN, K.T. The action of GABA receptor agonists and antagonists on muscle membrane conductance in Schistocerca gregaria
- 723 BOND, R.A. & CLARKE, D.E. Agonist and antagonist characterization of a putative adrenoceptor with distinct pharmacological properties from the α and β -subtypes
- 735 AOKI, N., BITTERMAN, H., BREZINSKI, M.E. & LEFER, A.M. Cardioprotective actions of human superoxide dismutase in two reperfusion models of myocardial ischaemia in the rat

- 741 COOK, N.S., WEIR, S.W. & DANZEISEN, M.C. Antivasoconstrictor effects of the K⁺ channel opener cromakalim on the rabbit aorta—comparison with the calcium antagonist isradipine
- 753 FFRENCH-MULLEN, J.M.H., TOKUTOMI, N. & AKAIKE, N. The effect of temperature on the GABA-induced chloride current in isolated sensory neurones of the frog
- 763 ARCH, J.R.S., BUCKLE, D.R., BUMSTEAD, J., CLARKE, G.D., TAYLOR, J.F. & TAYLOR, S.G. Evaluation of the potassium channel activator cromakalim (BRL 34915) as a bronchodilator in the guineapig: comparison with nifedipine
- 771 PATMORE, L. & DUNCAN, G.P. Effects of calcium channel antagonists and facilitators on beating of primary cultures of embryonic chick heart cells
- 777 EVANS, R.G., RICE, G.E. & OLLEY, J. Studies of the effects of sub-acute treatment with N-(cyclopropylmethyl)-19-isopentylnororvinol (M320) on timing of parturition in the rat
- 783 DE NUCCI, G., WARNER, T. & VANE, J.R. Effect of captopril on the bradykinin-induced release of prostacyclin from guinea-pig lungs and bovine aortic endothelial cells
- 789 IQBAL, A. & VANHOUTTE, P.M. Flunarizine inhibits endothelium-dependent hypoxic facilitation in canine coronary arteries through an action on vascular smooth muscle
- 795 NAKAO, K., OKABE, K., KITAMURA, K., KURIY-AMA, H. & WESTON, A.H. Characteristics of cromakalim-induced relaxations in the smooth muscle cells of guinea-pig mesenteric artery and vein

- 805 WILLIAMS, T.L., SMITH, D.A.S., BURTON, N.R. & STONE, T.W. Amino acid pharmacology in neocortical slices: evidence for bimolecular actions from an extension of the Hill and Gaddum-Schild equations
- 811 BOSE, D., HRYSHKO, L.V., KING, B.W. & CHAU, T. Control of interval-force relation in canine ventricular myocardium studied with ryanodine
- 821 ITOH, H., MURAMATSU, I., PATEL, P., LEDERIS, K. & HOLLENBERG, M.D. Inhibition by anti-inflammatory agents of contraction induced by epidermal growth factor-urogastrone in isolated longitudinal smooth muscle strips from guinea-pig stomach
- 830 AMEZCUA, J.L., DUSTING, G.J., PALMER, R.M.J. & MONCADA, S. Acetylcholine induces vasodilatation in the rabbit isolated heart through the release of nitric oxide, the endogenous nitrovasodilator
- 835 BHARDWAJ, R. & MOORE, P.K. Endotheliumderived relaxing factor and the effects of acetylcholine and histamine on resistance blood vessels
- 844 KOMORI, S., MATSUO, K. & OHASHI, H. Development before and after hatching of non-cholinergic excitatory innervation to the rectum via Remak's nerve in the fowl
- 851 LENZEN, S., BRAND, F.-H. & PANTEN, U. Structural requirements of alloxan and ninhydrin for glucokinase inhibition and of glucose for protection against inhibition
- 860 BAGETTA, G., DE SARRO, G., PRIOLO, E. & NISTICÒ, G. Ventral tegmental area: site through which dopamine D₂-receptor agonists evoke behavioural and electrocortical sleep in rats
- 867 OHIZUMI, Y., KOBAYASHI, M., MUROYAMA, A., NAKAMURA, H. & KOBAYASHI, J. The mechanism of the inotropic action of striatoxin, a novel polypeptide toxin from a marine snail, in isolated cardiac muscle
- 876 SEINO, A., KOBAYASHI, M., MOMOSE, K., YASU-MOTO T. & OHIZUMI, Y. The mode of inotropic action of ciguatoxin on guinea-pig cardiac muscle
- 883 IKEMOTO, Y., AKAIKE, N. & KIJIMA, H. Kinetic and pharmacological properties of the GABA-induced chloride current in *Aplysia* neurones: a 'concentration clamp' study
- 896 CHRISTIE, M.J. & NORTH, R.A. Agonists at μopioid, M₂-muscarinic and GABA_R-receptors increase

- the same potassium conductance in rat lateral parabrachial neurones
- 903 CARTHEUSER, C.F. Slow channel inhibitor effects on brain function: tolerance to severe hypoxia in the rat
- 914 KATYARE, S.S. & RAJAN, R.R. Enhanced oxidative phosphorylation in rat liver mitochondria following prolonged in vivo treatment with imipramine
- 923 RACKÉ, K., SCHWÖRER, H. & KILBINGER, H. Adrenergic modulation of the release of 5-hydroxytryptamine from the vascularly perfused ileum of the guinea-pig
- 932 MURPHY, D.E., HUTCHISON, A.J., HURT, S.D., WILLIAMS, M. & SILLS, M.A. Characterization of the binding of [3H]-CGS 19755: a novel N-methyl-D-aspartate antagonist with nanomolar affinity in rat brain
- 939 COLLINS, G.G.S. Effects of the anaesthetic 2,6-diisopropylphenol on synaptic transmission in the rat olfactory cortex slice
- 950 EVANS, S.M. & COLLARD, K.J. The mechanism by which monoamine oxidase inhibitors give rise to a noncalcium-dependent component in the depolarizationinduced release of 5-HT from rat brain synaptosomes
- 957 LODGE, D., DAVIES, S.N., JONES, M.G., MILLAR, J., MANALLACK, D.T., ORNSTEIN, P.L., VERB-ERNE, A.J.M., YOUNG, N. & BEART, P.M. A comparison between the *in vivo* and *in vitro* activity of five potent and competitive NMDA antagonists
- 966 BACON, K.B., CAMP, R.D.R., CUNNINGHAM, F.M. & WOOLLARD, P.M. Contrasting in vitro lymphocyte chemotactic activity of the hydroxyl enantiomers of 12-hydroxy-5,8,10,14-eicosatetraenoic acid
- 975 SCHOEFFTER, P. & HOYER, D. Centrally acting hypotensive agents with affinity for 5-HT_{1A} binding sites inhibit forskolin-stimulated adenylate cyclase activity in calf hippocampus
- 986 THOMAS, G.R., THIEMERMANN, C., WALDER, C. & VANE, J.R. The effects of endothelium-dependent vasodilators on cardiac output and their distribution in the anaesthetized rat: a comparison with sodium nitroprusside
- 993 COSTA, M. & MAJEWSKI, H. Facilitation of noradrenaline release from sympathetic nerves through activation of ACTH receptors, β-adrenoceptors and angiotensin II receptors

VOLUME 95 NUMBER 4 DECEMBER 1988

SHORT COMMUNICATIONS

- 1005 BRAIN, S.D., TIPPINS, J.R. & WILLIAMS, T.J. Endothelin induces potent microvascular constriction
- 1008 DRAY, A., BETTANEY, J., FORSTER, P. & PERKINS, M.N. Activation of a bradykinin receptor in peripheral nerve and spinal cord in the neonatal rat in vitro
- 1011 WHITTLE, B.J.R. & ESPLUGUES, J.V. Induction of rat gastric damage by the endothelium-derived peptide, endothelin

- 1015 MORITOKI, H., TANIOKA, A., MAESHIBA, Y., IWAMOTO, T., ISHIDA, Y. & ARAKI, H. Ageassociated decrease in histamine-induced vasodilatation may be due to reduction of cyclic GMP formation
- 1023 GAIRIN, J.E., MAZARGUIL, H., ALVINERIE, P., BOTANCH, C., CROS, J. & MEUNIER, J.-C. N,N-dially-tyrosyl substitution confers antagonist properties on the \(\kappa \)-selective opioid peptide [D-Pro\) dynorphin A(1-11)

- 1031 EGLEN, R.M., MONTGOMERY, W.W., DAINTY, I.A., DUBUQUE, L.K. & WHITING, R.L. The interaction of methoctramine and himbacine at atrial, smooth muscle and endothelial muscarinic receptors in vitro
- 1039 AMERINI, S., BERNABEI, R., CARBONIN, P., CERBAI, E., MUGELLI, A. & PAHOR, M. Electrophysiological mechanism for the antiarrhythmic action of propafenone: a comparison with mexiletine
- 1047 HIRST, B.H., HOLLAND, J., PARSONS, M.E. & PRICE, C.A. Fade and tachyphylaxis of gastric acid secretory response to pentagastrin in rat isolated gastric mucosa
- 1057 KRISHTAL, O.A., MARCHENKO, S.M., OBUKHOV, A.G. & VOLKOVA, T.M. Receptors for ATP in rat sensory neurones: the structure-function relationship for ligands
- 1063 ADAMANTIDIS, M.M., HONORÉ, E.R. & DUPUIS, B.A. Electrical and mechanical effects of new aminosteroids on guinea-pig isolated ventricular muscle
- 1075 HOF, R.P. & HOF, A. Vasoconstrictor and vasodilator effects in normal and atherosclerotic conscious rabbits
- 1081 RANDALL, M.D. & HILEY, C.R. Detergent and methylene blue affect endothelium-dependent vasorelaxation and pressure/flow relations in rat blood perfused mesenteric arterial bed
- 1089 SAKAI, T., TERADA, K., KITAMURA, K. & KURIY-AMA, H. Ryanodine inhibits the Ca-dependent K current after depletion of Ca stored in smooth muscle cells of the rabbit ileal longitudinal muscle
- 1101 KAHAN, T., PERNOW, J., SCHWIELER, J., WALLIN, B.G., LUNDBERG, J.M. & HJEMDAHL, P. Noradrenaline release evoked by a physiological irregular sympathetic discharge pattern is modulated by prejunctional α- and β-adrenoceptors in vivo
- 1109 ROGERS, D.F., BELVISI, M.G., AURSUDKIJ, B., EVANS, T.W. & BARNES, P.J. Effects and interactions of sensory neuropeptides on airway microvascular leakage in guinea-pigs
- 1117 DUNWIDDIE, T.V., PROCTOR, W.R. & TYMA, J. Local anaesthetic actions of cocaine: effects on excitatory and inhibitory synaptic responses in the hippocampus in vitro
- 1125 DAMAROWSKY, M., LÜLLMANN, H. & RAVENS, U. The dihydropyridine derivative 202-791: interpretation of the effects of the racemate considering inverse agonistic enantiomers
- 1133 SLADECZEK, F., SCHMIDT, B.H., CORY, R.N., EL MOATASSIM, C., ALONSO, R., KIRK, K.L., KIRK, C.J., ROUOT, B. & BOCKAERT, J. Complex interactions of agonists with α₁-adrenoceptors in intact cells
- 1141 SCHNEIDER, W., GROHS, J.G., KRUMPL, G., MAYER, N. & RABERGER, G. The effects of nitroglycerin on regional myocardial contractile dysfunction produced by treadmill exercise or isoprenaline stimulation in dogs
- 1151 GILLESPIE, J.S. & SHENG, H. Influence of haemoglobin and erythrocytes on the effects of EDRF, a

- smooth muscle inhibitory factor, and nitric oxide on vascular and non-vascular smooth muscle
- 1157 KOMORI, S. & OHASHI, H. Membrane potential responses to ATP applied by pressure ejection in the longitudinal muscle of chicken rectum
- 1165 CHEN, G., SUZUKI, H. & WESTON, A.H. Acetylcholine releases endothelium derived hyperpolarizing factor and EDRF from rat blood vessels
- 1175 KOTAKE, H., NAWADA, T., MATSUMOTO, T., KITAMURA, H., KANEDA, T., HASEGAWA, J. & MASHIBA, H. Chronotropic effect of nizofenone fumarate in rabbit sino-atrial node in vitro
- 1181 CARTER, T.D., HALLAM, T.J., CUSACK, N.J. & PEARSON, J.D. Regulation of P_{2y}-purinoceptor-mediated prostacyclin release from human endothelial cells by cytoplasmic calcium concentration
- 1191 SHIMOKAWA, H., AARHUS, L.L. & VANHOUTTE, P.M. Dietary ω3 polyunsaturated fatty acids augment endothelium-dependent relaxation to bradykinin in coronary microvessels of the pig
- 1197 SHIMOKAWA, H., FLAVAHAN, N.A., LORENZ, R.R. & VANHOUTTE, P.M. Prostacyclin releases endothelium-derived relaxing factor and potentiates its action in coronary arteries of the pig
- 1204 HALL, I.P. & HILL, S.J. β_2 -Adrenoceptor stimulation inhibits histamine-stimulated inositol phospholipid hydrolysis in bovine tracheal smooth muscle
- 1213 HILL, S.J. & STRAW, R.M. α₂-Adrenoceptor-mediated inhibition of histamine release from rat cerbral cortical slices
- 1220 GRANT, T.L. & McGRATH, J.C. Interactions between angiotensin II, sympathetic nerve-mediated pressor response and cyclo-oxygenase products in the pithed rat
- 1229 GRANT, T.L. & McGRATH, J.C. Interactions between angiotensin II and α-adrenoceptor agonists mediating pressor responses in the pithed rat
- 1241 UPRICHARD, A.G.C., HARRON, D.W.G., WILSON, R. & SHANKS, R. Effects of the myocardial-selective α₁-adrenoceptor antagonist UK-52046 and atenolol, alone and in combination, on experimental cardiac arrhythmias in dogs
- 1255 CHANG, C.C., CHEN, S.M. & HONG, S.J. Reversals of the neostigmine-induced tetanic fade and endplate potential run-down with respect to the autoregulation of transmitter release
- 1262 SALONEN, R.O., WEBBER, S.E. & WIDDICOMBE, J.G. Effects of neuropeptides and capsaicin on the canine tracheal vasculature in vivo
- 1271 LUZZI, S., ZILLETTI, L., FRANCHI-MICHELI, S., GORI, A.M. & MORONI, F. Agonists, antagonists and modulators of excitatory amino acid receptors in the guinea-pig myenteric plexus
- 1278 DE SARRO, G., BAGETTA, G., ASCIOTI, C., LIBRI, V. & NISTICO, G. Microinfusion of clonidine and yohimbine into locus coeruleus alters EEG power spectrum: effects of aging and reversal by phosphatidylserine

- 1287 KONDO, N. Comparison between effects of caffeine and ryanodine on electromechanical coupling in myo-cardium of hibernating chipmunk: role of internal Ca stores
- 1292 BRISTOW, L.J. & BENNETT, G.W. Biphasic effects of intra-accumbens histamine administration on spontaneous motor activity in the rat; a role for central histamine receptors
- 1303 NAKAHIRO, M., MOCHIZUKI, D., UCHIDA, S. & YOSHIDA, H. Effect of the 'antidementia drug' pantoyl-GABA on high affinity transport of choline and on the contents of choline and acetylcholine in rat brain
- 1308 BULT, H., FRET, H.R.L., VAN DEN BOSSCHE, R.M. & HERMAN, A.G. Platelet inhibition by endotheliumderived relaxing factor from the rabbit perfused aorta
- 1315 WONG, P.Y.D. Control of anion and fluid secretion by apical P₂-purinoceptors in the rat epididymis
- 1322 YAACOB, H.B. & PIPER, P.J. Inhibition of leukotriene release in anaphylactic guinea-pig hearts by a 5lipoxygenase inhibitor, CGS 8515
- 1329 ANDERSON, A.J., HARVEY, A.L., ROWAN, E.G. & STRONG, P.N. Effects of charybdotoxin, a blocker of Ca²⁺-activated K⁺ channels, on motor nerve terminals