

COMMUNICATIONS

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| 394P | CONSTANTI, A. & WILLIAMS S.H. Pharmacological determination of the pA ₂ for pirenzepine using a mammalian <i>in vitro</i> brain slice preparation | 401P | BOND, R.A., CHARLTON, K.G. & CLARKE, D.E. Further characterization of the prejunctional inhibitory 5-HT ₁ receptor in rat kidney |
| 395P | BRADSHAW, C.M., SHERIDAN, R.D. & SZABADI, E. Neuronal responses to acetylcholine and carbachol in the cerebral cortex: involvement of M ₁ muscarinic receptors | 402P | BLOOMFIELD, J.G., ELLIOTT, J.M. & EVANS, D.J. Platelet [³ H]-imipramine and [³ H]-yohimbine binding are reduced in Cushing's disease |
| 396P | BLAKE, J., EVANS, R.H. & SMITH, D.A.S. Effect of nicotine on motoneurons in the rat hemisectioned spinal cord preparation | 403P | GRAHAM, D., HABERT, E. & LANGER, S.Z. Solubilization of the serotonin transporter complex of rat cerebral cortex |
| 397P | EGLEN, R.M., PARK, K.C. & WHITING, R.L. Analysis of the muscarinic agonist action of arecaidine propargyl ester | 404P | BIZIERE, K., CHEVALLIER, E., KAN, J.P., WERMUTH, C.G. & WORMS, P. Neuropharmacological profile of SR 95191, a new atypical antidepressant drug with MAOI and dopaminomimetic activities |
| 398P | MARSDEN, C.A., MARTIN, K.F. & WEBB, A.J. Diurnal variation in 5-HT ₁ receptor function | 405P | BRECKENRIDGE, A.M., COLEMAN, M.D., EDWARDS, G., HOWELLS, R.E., MIHALY, G.W. & WARD, S.A. The sustained release of pyrimethamine base and pyrimethamine pamoate from a biodegradable injectable drug preparation |
| 399P | CONOLAN, S., QUINN, M.J. & TAYLOR, D.A. Peripheral 5-HT ₂ receptor activation following administration of tryptamine derivatives in rats | 406P | CHOLERTON, S. & PARK, B.K. The pharmacological response to vitamin K ₁ in the anticoagulated rat |
| 400P | CHAMBERS, SANDRA D., CHURCH, M.K. & HUGHES, P.J. Adenosine enhancement of A23187 induced 5-hydroxy-tryptamine release from rat mast cells is not P ₁ - or P ₂ -purinoceptor mediated | 407P | BENYON, R.C., CHURCH, M.K., HOLGATE, S.T. & HUGHES, P.J. Methyltransferase inhibitors may inhibit histamine release by elevating cyclic AMP in mast cells and basophils |
| | | 408P | KILPATRICK, I.C. & STANCLIFFE, DIANE On the transmitter chemistry of the thalamo-striatal pathway in the rat |

*The author who intended to present the work is indicated
by an asterisk (*) on the abstract*

- 409P GRAHAM, W.C., MEECHAM, K.G. & PITTAWAY, K.M. The antinociceptive effect of cholecystokinin (26-33) in the mouse
- 410P BAILEY, S.J. & HOLZER, P. A tachykinin antagonist inhibits the substance P-induced accumulation of inositol bisphosphate in guinea-pig small intestine
- 411P MASON, D.F.J. & MEDBAK, S. The effects of nitroprusside on circulating MET-enkephalin levels in dogs
- 412P HOLMAN, R.B. & WIDDOWSON, P.S. The effects of substance P on endogenous dopamine release from rat corpus striatum *in vitro*
- 413P ARBILLA, SONIA, BENKIRANE, SANAA & LANGER, S.Z. α_2 -adrenoceptor mediated inhibition by β -phenylethylamine of [3 H]-5-HT release from rat hippocampal slices
- 414P BUCKETT, W.R. & DIGGORY, G.L. Noradrenaline turnover: drug-induced changes evaluated using a new HPLC-ECD assay for free MHPG in mouse brain
- 415P MARSDEN, C.A. & ROUTLEDGE, C. Electrical stimulation of rat C1 neurones increases blood pressure and extracellular hypothalamic adrenaline
- 416P CAVERO, I., HICKS, P.E. & LEFÈVRE-BORG, FRANCOISE. α_1 -adrenoceptor antagonist effects on alfuzosin in rabbit and dog lower urinary tract
- 417P BIZIERE, K., BOUGAULT, I., KAN, J.P., MOUGET-GONJOT, C., MONS, G. & WORMS, P. Effect of two amino-pyridazine derivatives on both forms of monoamine oxidase in rat brain
- 418P CROME, R., HEARSE, D.J. & MANNING, A.S. Reperfusion arrhythmias and time-response relationships: modification by drugs in the anaesthetised rat
- 419P BRADSHAW, C.M., MORLEY, M.J. & SZABADI, E. Lack of effect of N-2-chloroethyl-N-2-bromobenzylamine (DSP4) on performance in an operant discrimination procedure
- 420P MORINAN, A. & PARKER, VIVIENNE Evidence for a lack of memory impairment in socially isolated rats
- 421P BUNCE, K.T. & CLAYTON, N.M. The effect of the prostaglandin endoperoxide analogue, U46619, on gastric mucosal ulceration and non-parietal secretion in the rat
- 422P FITZGERALD, M.F., HENDERSON, B., HIGGS, G.A., PARENTE, L. & PETTIPHER, E.R. The levels of PAF and lyso-PAF in the joint fluids of rabbits with antigen-induced arthritis
- 423P BAKHLE, Y.S., MONCADA, S., DE NUCCI, G. & SALMON, J.A. Ovalbumin-induced eicosanoid release in guinea-pig isolated lungs perfused via the pulmonary artery and via the trachea
- 424P LAYCOCK, S.M., SMITH, H. & SPICER, B.A. Rat active peritoneal anaphylaxis
- 425P BROWN, K.A., WILBOURN, B., FERRIE, J. & DUMONDE, D.C. Effect of non-steroidal anti-inflammatory drugs (NSAID) on the adhesion of human leucocytes to cultured endothelium
- 426P MAIN, I.H.M. & WILSON, G.A.M. Effects of forskolin, an adenylate cyclase activator, on gastric acid secretion in the rat, *in vivo* and *in vitro*

- 427P CROMWELL, O., SHAW, R.J., WALSH, G.M. & KAY, A.B. Inhibition of leukotriene C₄ and B₄ generation by human eosinophils and neutrophils
- 428P DE LA HUNT, M.N., HILLIER, K., JEWELL, R., PLATT, K. & KARRAN, S.J. Dietary oil modifies duodenal and gastric prostaglandin synthesis in the rat
- 429P AWARA, WAGEH, HILLIER, K. & JONES, D. Do endogenous prostaglandin E₂ and thromboxane A₂ modulate the mitogen-induced proliferation of peripheral blood lymphocytes?
- 430P BRISTOW, D.R., CAMPBELL, M.M., IVERSEN, L.L., KEMP, J.A., MARSHALL, G.R., WATLING, K.J. & WONG, E.H.F. 2-amino-thiazoline-4-acetic acid - a novel, specific GABA_A receptor agonist
- 431P DUCE, I.R. & SCOTT, R.H. Interactions of dihydro-avermectin B_{1a}, GABA and ibotenic acid on locust (*Schistocerca gregaria*) muscle
- 432P ARBILLA, SONIA, DEPOORTERE, H., GEORGE, P. & LANGER, S.Z. Pharmacological profile of zolpidem: a novel hypnotic agent
- 433P MASON, R. Characterisation of 5-HT sensitive neurones in the rat CNS using ionophoresed 8-OH-DPAT and ketanserin
- 434P DAVIS, A.S., JENNER, P. & MARSDEN, C.D. Apomorphine induces grooming behaviour in rats pretreated with sulpiride
- 435P O'BOYLE, K.M. & WADDINGTON, J.L. Binding of [³H]-SCH 23390, a selective D-1 dopamine receptor antagonist, in human brain
- 436P CAVERO, I. & HICKS, P.E. Studies on the transient hypotensive effects of fenoldopam, a DA₁ dopamine receptor agonist, in rats
- 437P FLEMING, W.W. & HAWTHORN, M.H. Does chronic reserpine pretreatment induce supersensitivity to catecholamines in guinea-pig left atria?
- 438P BHALLA, P., GURDEN, M.F. & KENNEDY, I. Studies on the adenosine receptors in dog coronary artery
- 439P ALLAN, G., CAMBRIDGE, D., LEE-TSANG-TAN, L., VAN WAY, C. & WHITING, M.V. Protective action of allopurinol in an experimental model of haemorrhagic shock with reperfusion
- 440P BENAVIDES, J., BURGEVIN, M.C., DOBLE, A, LE FUR, G. & UZAN, A. A role for peripheral-type benzodiazepine binding sites in regulating K⁺-evoked ⁴⁵Ca⁺⁺ uptake in a rat pituitary cell line
- 441P BROADLEY, K.J. & WILSON, A.N.A. Effects of dipyrindamole and deoxycoformycin on the action of adenosine in guinea-pig cardiac tissues
- 442P FLYNN, S.B., GRISTWOOD, R.W., OWEN, D.A.A. & ROTHUL, A.L. The cardiac electrophysiological effects of methimazole pre-treatment in the rat

- 443P HAMILTON, T.C., WEIR, S.W. & WESTON, A.H. Comparison of the effects of BRL34915 and verapamil on rat portal vein

POSTER COMMUNICATIONS

- 444P GONZALEZ, J.P., STOLZ, J.F. Behavioural effects of 5-HT₁ and 5-HT₂ agonists on naloxone-precipitated morphine abstinence
- 445P MARSDEN, C.A. & MARTIN, K.F. *In vivo* voltammetric evidence that the 5-HT autoreceptor is not of the 5-HT_{1A} sub-type
- 446P GODFREY, P.P., MCCLUE, S.J., MINCHIN, M.C.W. & YOUNG, M.M. 8-OH-DPAT stimulates inositol phospholipid breakdown in rat brain slices and rabbit platelets
- 447P OSBORNE, R.H. Is RU24969 a 5-HT₂ antagonist on the rat fundic strip preparation?
- 448P SKIDMORE, I.F. & VARDEY, C.J. β -adrenoceptor agonists stimulate the release of 5-HT from rat serosal mast cells
- 449P COX, ROSALIND, T.L. & WALKER, R.J. The inhibition of an acetylcholine-induced calcium current in cell F-1 of *Helix aspersa* by adenosine
- 450P DAVIES, S.W. & ROBERTS, P.J. Effects of intracerebro-ventricular kainic acid on acetylcholinesterase-containing neurones in rat hippocampus
- 451P KENNY, B.A., MICHEL, A.D. & WHITING, R.L. The effect of dicyclomine and trifluoperazine on muscarinic receptors
- 452P MUTH, E., LEWIS, A.J., DERVINIS, A., HAND, J.M., ROTHBERG, K. & DOUGLAS, J.S. A comparison of the muscarinic and histamine H₁ receptor binding activities of thiazinamium chloride and its major metabolites
- 453P WALI, F.A. *In vitro* comparison between the neuromuscular blockade produced by atracurium and tubocurarine in the frog sartorius muscle
- 454P WALKER, R.J. & WRIGHT, N.J.D. Action of piretanide on acetylcholine responses of central neurones of *Helix aspersa*
- 455P BENNETT, G.W., GREEN, A.R., LIGHTON, CELIA & MARSDEN C.A. The effect of repeated electroconvulsive shock on the behavioural response to a TRH analogue (CG 3509)
- 456P BRILEY, M., CHOPIN, PHILIPPE, FILE, SANDRA, E. & PELLOW, SHARON. Validation of a test of anxiety in the rat based on exploratory activity in a plus-maze
- 457P FILE, S.E. & WILKS, L.J. Behavioural indices of withdrawal following a single dose of sodium phenobarbitone
- 458P GRIFFITHS, E.C. & WIDDOWSON, P.S. Involvement of other neurotransmitters in TRH-induced wet-dog shaking
- 459P JACKSON, HELEN, C. & SEWELL, R.D.E. Thiorphan and bestatin: effect on food intake?

- 460P MORINAN, A. & PARKER, VIVIENNE Are socially isolated rats anxious?
- 461P MOSER, P.C. & REDFERN, P.H. Behavioural parameters of 5-HT₁ receptor stimulation do not show circadian variation
- 462P NOLAN, A.M., LIVINGSTON, A. & WATERMAN, A. The use of a thermal stimulus device to assess analgesics in the sheep
- 463P BONETTI, E.P., BURKARD, W.P., GABL, M. & MOHLER, H. The partial inverse benzodiazepine agonist Ro 15-4513 antagonizes acute ethanol effects in mice and rats
- 464P LITTLE, H.J. & NUTT, D.J. The effects of β -carbolines in infant rats
- 465P POLC, P. Interactions of partial inverse benzodiazepine agonists Ro 15-4513 and FG 7142 with ethanol in rats and cats
- 466P BUCKETT, W.R., FLETCHER, C., HINDS, M. & MASON, R. Subsensitivity of cerebellar Purkinje cells to ionophoresed noradrenaline induced by chronic administration of dothiepin
- 467P HORTON, R.W. & JAZRAWI, S.P. Noradrenergic receptor binding in brain regions of mice susceptible and resistant to audiogenic seizures
- 468P BARNES, N.J.G., COSTALL, BRENDA, DOMENEY, ANNETTE, M. & NAYLOR, R.J. Increased locomotor activity caused by dopamine infused into the nucleus accumbens of primate brain
- 469P JENNER, P., MARSDEN, C.D. & SIMPSON, M.D.C. Lack of effect of ovine prolactin on specific [³H]-spiperone binding sites in male rat striatum
- 470P ALI, S.M., LONGSTAFF, A., O'NEIL, G.S. & RAMAN, VASANTA Enhancement by verapamil of presynaptic inhibitory effect of GABA on sympathetic transmission in rat anococcygeus muscle
- 471P IBRAHIM, NAGI, BAGUST, J. & KERKUT, G.A. Differences in responses to GABA of spontaneously active cerebral cells *in vitro* revealed by inter-spike interval analysis
- 472P HORTON, R.W., JENNER, P., MARSDEN, C.D., PRESTWICH, S.A. & RUPNIAK N.M.J. Alterations in cerebral GABA parameters following treatment of rats for up to 1 year with haloperidol, sulpiride or clozapine
- 473P ANAND, H., COLLINS, J.F. & ROBERTS, P.J. Kainic acid binding in the rat cerebellum: effects of novel kainate analogues
- 474P COLLINGRIDGE, G.L., HERRON, C.E. & WILLIAMSON, R. A selective N-methyl-D-aspartate antagonist reduces convulsant-induced epileptiform activity in rat hippocampal slices
- 475P CROSS, A.J., SKAN, W.J. & SLATER, P. Excitatory amino acid binding sites in human cerebellum
- 476P BARWELL, C.J. Hordenine (N,N-dimethyl tyramine) is a selective substrate for monoamine oxidase B from rat liver
- 477P BARWELL, C.J. & HEIKKILA, R.E. MPTP demethylation by microsomes from mice and guinea-pig liver

- 478P BUCKETT, W.R. & LUSCOMBE, G.P. Effect of selective and non-selective monoamine oxidase inhibitors on the P,P'-DDT-induced behavioural response in mice
- 479P GREENWOOD, D.T., KELLY, ELIZABETH, MARSHALL, P.W. & MITCHELL, KAY Failure of viloxazine to inhibit tyramine induced pressor responses in the anaesthetised rat
- 480P SLEIGHT, A.J., REDFERN, P.H. & PALFREYMAN, M.G. Pharmacological evidence for the neuronal selectivity of the MAO inhibiting prodrug, MDL 72394
- 481P AL-DHAHIR, H.A.R. & ZEITLIN, I.J. Bile acids activate human colonic tissue kallikrein-like amidase
- 482P BOARDER, M.R., MARRIOTT, D.B. & ADAMS, M. Response of neuroblastoma hybrid cells to phosphodiesterase inhibitors and PGE₁: changes in cyclic AMP and opioid peptides
- 483P BROWNE, JULIA, L. & PILCHER, C.W.T. Nociceptive effects of GABA-ergic agents in socially crowded rats
- 484P CHURCH, M.K. & FEATHERSTONE, R.L. An examination of interactions between substance P and other agonists in airway smooth muscle
- 485P COWAN, A. & HEYMAN, J. Bombesin is a potent antinociceptive agent in mouse writhing and tail flick tests
- 486P COX, HELEN, M., MUNDAY, K.A., PLEVIN, R. & POAT, JUDITH, A. A study of bradykinin binding to rat jejunal epithelial cell membranes
- 487P COX, H.M., MUNDAY, K.A., POAT, J.A. & SHARMA, R.P. A novel angiotensin II analogue with high affinity for epithelial ¹²⁵I-angiotensin II binding sites
- 488P DODD, M.G. & MACHIN, I. Lack of role of angiotensin-II in orthostatic blood pressure control
- 489P FEATHERSTONE, R.L., FOSBRAEY, P. & MORTON, I.K.M. Use of tachykinin antagonists against eleodoisin-evoked neurotransmitter release
- 490P GALLOWAY, D.J., GEORGE, W.D., MCINTYRE, R. & ZEITLIN, I.J. Intestinal kallikrein and carcinogenesis in rat colon: effect of diet and aprotinin
- 491P DETTMAR, P.W., KELLY, J. & MACDONALD, A. Effect of UK-14,304 on nerve-induced responses in rat gastric fundus
- 492P DICKINSON, K.E.J., MCKERNAN, R.M., MILES, C.M.M. & SEVER, P.S. Heterogeneity of soluble splenic α_2 -adrenoceptors
- 493P MCADAMS, R.P. & WATERFALL, J.F. The effect of cold and restraint on activation of pre- and post-synaptic α -adrenoceptors in the rat
- 494P MCADAMS, R.P., LATTIMER, N., RHODES, K.F. & WATERFALL, J.F. The effect of age on activation of pre- and postsynaptic α -adrenoceptors in the rat
- 495P MICHEL, A.D. & WHITING, R.L. Agonist affinity for α -adrenoceptors
- 496P RHODES, K.F. & WATERFALL, J.F. Differences in the sensitivity of regions of the canine saphenous vein to α_1 and α_2 -adrenoceptor selective agonists

- 497P BLACKBURN, T.P., GLEN, J.B., HUNTER, S.C. & WOOD, P. Adrenocortical function in rats during anaesthesia with etomidate, methohexitone or propofol
- 498P CROME, R., HEARSE, D.J., MAGUIRE, M.E. & MANNING, A.S. Dissociation between reperfusion arrhythmias and increases in ventricular α_1 receptor density in the anaesthetised rat
- 499P DELGADO, C., TAMARGO, J., TEJERINA, T. & VALENZUELA, C. Effects of 5-hydroxy-propafenone on guinea-pig atrial and ventricular muscle fibres
- 500P MARIN, J., SALAICES, M., TAMARGO, J. & TEJERINA, T. Effects of oxodipine on vascular smooth muscle fibres
- 501P MOHD YUSOFF, Z. Effects of thyroxine on the frequency-force relationship of isolated and paced left atria of guinea-pigs
- 502P GREEN, K.L. & SAPRA, M. Effect of topical salbutamol on epidermal proliferation
- 503P ARMSTRONG, J.M. & FERRANDON, P. Nicardipine: beneficial effect on cardiac function and energy conservation during coronary reperfusion of the rat working heart
- 504P DOWNING, O.A., MARRIOTT, J.F. & WILSON, K.A. The use of verapamil to analyse alterations in Ca^{2+} activation of rat aorta during and following an acute hypoxic episode
- 505P MCNAMEE, P.M., MARKHAM, A. & SWEETMAN, A.J. Flufenamic acid promotes the uptake of calcium across the human red blood cell plasma membrane
- 506P ROBERTSON, M.J. Endothelium-dependent, calcium-induced relaxation of vascular smooth muscle
- 507P PORTER, I.D., WHITEHOUSE, B.J., VINSON, G.P. & HINSON, J.P. Effects of increasing potassium ion concentration on steroid secretion from the *in situ* perfused rat adrenal gland
- 508P ENGLAND, P.J. & SHAHID, M. Effects of forskolin on cardiac contractile protein phosphorylation
- 509P CHURCH, M.K., HOLGATE, S.T., NORN, S. & PAO, G.J.-K. Bacteria-induced histamine release from human dispersed lung and tonsillar mast cells
- 510P FRENCH, A.M. & HENDERSON, D. Potentiation of the NANC response in rat vas deferens by α_2 -adrenoceptor agonists
- 511P BOOBIS, A.R., DAVIES, D.S., MCQUADE, J. & SESARDIC, D. Specificity of isozymes of cytochrome P-450 determined by inhibitory monoclonal antibodies
- 512P CALDWELL, J., CHIDGEY, M.A.J. & KENNEDY, JANE, F. The absorption and disposition of topically-applied benzyl acetate in the rat
- 513P KEYSELL, G.R. & DAVIES, M.W. The effect of pregnancy and lactation on aldrin metabolism *in vitro* by rat liver

- 514P GESCHER, A., HARPUR, E.S. & PEARSON, P.G. Strain differences in the hepatotoxicity of N-methylformamide in mice
- 515P GESCHER, A., HARPUR, E.S., KESTELL, P. & PEARSON, P.G. Strain differences in the metabolism of N-methylformamide in mice
- 516P HAIGH, C.G., KAFY, A.M.L. & LEWIS, D.A. The action of putrescine on superoxide production from stimulated polymorphonuclear leucocytes
- 517P LAL, C. & NAYLOR, I.L. Rat testicular capsule - a tissue for myofibroblast drug sensitivity?
- 518P BOUCHENAF, O. & LIVINGSTON, A. Autoradiographic localisation of [³H]-clonidine and [³H]-prazosin in the spinal cord of the sheep
- 519P DETTMAR, P., DOWNING, O.A., ROACH, A.G., WILLIAMS, R.J. & WILSON, K.A. Stimulation of fluid transport in rat jejunum by noradrenaline - an attempt to characterise receptors
- 520P BEST, R., LEWIS, D.A. & PATEL, R. The effect of some non-steroidal anti-inflammatory drugs on leucocyte function
- 521P CARLSON, R.P., CHANG, J. & LEWIS, A.J. Does leukotriene B₄ play a role in urate-induced synovitis in dogs?
- 522P FOONG, W.C. & GREEN, K.L. Effect of intra-articular yttrium 90 or chlorambucil on an experimental arthritis
- 523P KENNEDY, I., WHELAN, C.J. & WRIGHT, GERALDINE Further studies on the cardiovascular actions of the leukotrienes in the anaesthetised rat
- 524P REEVES, J.J. & STABLES, R. Antisecretory activity of the prostaglandin endoperoxide analogue, U46619, on the rat isolated gastric mucosa

D E M O N S T R A T I O N S

- 525P CAIRNDUFF, B., GRAHAM, WENDY, C., JOHNSON, M.A., MEECHAM, K.G. & SMITH, G. The use of software for the BBC microcomputer to facilitate behavioural screening tests

CONTRIBUTIONS BY TITLE ONLY

526P MACKAY, JUDITH, A., CROMWELL,
O. & KAY, A.B. A rapid
method for identification of
high molecular weight
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activity from human lung

DOLPHIN, A.C. & PRESTWICH,
S.A. Pertussis toxin
reverses adenosine inhibition
of glutamate release from
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KENDALL, D.A. & NAHORSKI, S.R.
Effects of dihydropyridine calcium
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BRADBURY, AMANDA, J., COSTALL,
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M. EILZABETH, MARSDEN, C.D. &
NAYLOR, R.J. Benztropine
antagonises the neurotoxic
actions of MPTP in the mouse