

COMMUNICATIONS

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

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| 753P DOCHERTY, J.R. 5-hydroxytrypt-
amine receptors involved in
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rat. | 762P LEES, P.*, MATHO, T.E. & TAYLOR,
J.B.O. Absorption of phenyl-
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| 754P ARBILLA, S.*, LANGER, S.Z.,
PETRUZZO, P. & VIDAL, M.
Receptor mediated modulation of
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LEES, P.*, MAWHINNEY, I., SEDGWICK,
A.D. & TAYLOR, J.B.O. Studies on
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| 755P CROME, R.* & MANNING, A.S.
Reperfusion-induced arrhythmias
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| 756P ALLAN, G., DIXON, E.J.A.,
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Interference of a PAF-acether
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| 757P DUNCAN, G.P. PATMORE, L.* &
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OWEN, D.A.A.) Effects of leukotrienes
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| 758P CARPI, C., GAVIRAGHI, G. &
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| 759P LUMLEY, P. & ROBERTSON, M.J.*
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Immunisation induces bronchial hyper-
reactivity and increased mediator
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| 760P KNORR, A., LAGUNA, C. & STASCH,
J.-P. Alteration in Na-handling
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Some characteristics of the amine
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of the racehorse. |
| 761P JOHNS, E.J. A study in the rat
of the renal effects of atriopeptin
III and an attempt to locate its
site of action along the nephron. | 770P DONALDSON, J.* & HILL, S.J.
Alterations in H ₁ -agonist affinity
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- 771P HILL, S.J.* & KENDALL, D.A.
Adenosine augments histamine-induced inositol phospholipid hydrolysis in guinea-pig cerebral cortical slices.
- 772P GANELLIN, C.R. GRIFFITHS, R. MITCHELL, R.C., SMITH, I.R. & YOUNG, R.C.* The design of brain-penetrating H₂ receptor histamine antagonists.
- 773P 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.
SK&F 95282 is a potent selective brain-penetrating histamine H₂-receptor antagonist.
- 774P FOSTER, A.C.* & TRIDGETT, R.
Tachykinin receptors in rat cerebral cortex: [¹²⁵I]Bolton-Hunter-labelled-eledoisin and neurokinin A label a common site.
- 775P BOWERY, N.G.* & HUDSON, A.L.
The distribution of [³H]-MK-801 binding sites in rat brain determined by in vitro receptor autoradiography.
- 776P HORNE, A.L.* & SIMMONDS, M.A.
Antagonism of quisqualate responses by barbiturates.
- 777P KEMP, J.A. & PRIESTLEY, T.*
Hyperpolarising responses to N-methyl-D-aspartate (NMDA) receptor agonists.
- 778P ARAM, J., CHURCH, J., DAVIES, S.N.*, LODGE, D. & MARTIN, D.
Comparison of phencyclidine, thienylcyclohexylpeperidine and MK801 as NMDA antagonists on rat spinal and cortical neurones.
- 779P AUYEUNG, A., GOH, J.W., LI, I.S. MAY, P., PALETTA, M.J. & SASTRY, B.R.*
Is calcium required for the induction of long-term synaptic potentiation in the hippocampus?
- 780P DOLPHIN, A.C. & SCOTT, R.H*
Inhibition of calcium currents by the adenosine analogue 2-chloroadenosine involves GTP binding proteins.
- 781P GOLDIE, R.G.*, PASSARELLI, M.C., PATERSON, J.W., RIGBY, P.J., SELF, G.J. & SPINA, D. Ascorbic acid-dependent binding of [¹²⁵I]-iodocyanopindolol to non- β -adrenoceptor sites in guinea-pig trachea.
- 782P FERNANDES, L.B., GOLDIE, R.G.*, PATERSON, J.W., RIGBY, P.J. & SPINA, D.
 β -agonist-induced desensitization of guinea-pig tracheal β -adrenoceptors in vitro.
- 783P BARNES, P.J. & GRANDORDY, B.*
Leukotriene C₄ elicits inositol phosphate formation and inhibits adenylate cyclase in guinea-pig lung.
- 784P MINCHIN, M.C.W. & WOOD, M.D.
A convenient procedure for the assay of [³H]-labelled inositol phosphates.
- 785P KLEIN, D.C. & SUGDEN, D.*
Activators of protein kinase C act at a post-receptor site to amplify β -adrenoceptor stimulation of pineal cyclic amp.
- 786P BLAKELEY, A.G.J., DUNN, P.M.* & PETERSEN, S.A. Differences between adrenergic and purinergic inhibition in the mouse vas deferens in vitro.
- 787P CRIPPS, H., IVERSEN, L.L. & POAT, J.A.*
Forskolin potentiates secretory responses to substance P and isoprenaline in rat parotid glands.
- 788P CLARKE, G. & WRIGHT, D.M. Do μ - and κ -selective opioids inhibit oxytocin release in the same way?

- 789P HEWITT, G.M., WALKER, R.J. & WANN, K.T.* Comparison of the effects of GABA receptor agonists on the somatic muscle receptors of ascaris suum.
- 790P JOHNSTON, H.G. & MAJEWSKI, H. Involvement of cyclic nucleotides in prejunctional adrenoceptor modulation of noradrenaline release.
- 791P BUSHFIELD, M.*, GIBSON, I.F., MURDOCH, F.A. & MACINTYRE, D.E. Differential effects of phorbol 12-myristate 13-acetate on PGD₂- and PGI₂-induced cyclic AMP formation in platelets.
- 792P HANAHOE, T.H.P. & LAD, N.* The effects of prolonged administration of aspirin on rabbit platelets.
- 793P ARBILLA, S.*, BENKIRANE, S. & LANGER, S.Z. Activation of D₁ dopamine receptors inhibits the evoked release of [³H]-serotonin in the rat substantia nigra.
- 794P JENNER, P., MARSDEN, C.D. & STEWART, B.R.* Pharmacological manipulation of pilocarpine-induced purposeless chewing in rats.
- 795P HENDRIE, C.A. (Introduced by RODGERS, R.J.) A single pre-treatment with ACTH prevents the development of tolerance to morphine analgesia in mice.
- 796P LITTLE, H.J., NUTT, D.J. & TAYLOR, S.C. Does chronic benzodiazepine administration cause a "withdrawal shift" across the whole diazepam ligand spectrum?
- 797P RANDALL, J.I.* & RODGERS, R.J. Antinociceptive effects of benzodiazepine inverse agonists: possible relevance for 'defeat' analgesia in male mice?
- 798P GARDNER, C.R. & GUY, A.P. Do agents enhancing GABA receptor-coupled chloride ionophore function have anxiolytic properties?
- 799P GRAY, J.A. & GREEN, A.R. Evidence for increased GABA_B receptor function in mouse frontal cortex following antidepressant administration.
- 800P LITTLE, H.J., STANFORD, S.C. & TAYLOR, S.C. β -adrenoceptor upregulation after FG7142 is abolished by chronic treatment with the antidepressant desmethyylimipramine.
- 801P DAVIES, S.L., HORTON, R.W., MISTRY, H., THEODOROU, A.E.* & YAMAGUCHI, Y. Human platelet α_2 -adrenoceptor binding and function during the menstrual cycle.
- 802P CHEETHAM, S.C.*, CROMPTON, M.R., HORTON, R.W. & KATONA, C.L.E. Lower hippocampal, but unchanged cortical, 5HT₂ binding sites in depressed suicide victims.
- 803P HARRIS, N.C. & RYALL, R.W. Electrophysical studies on the site of action of morphine in the spinal cord of the anaesthetised rat.

POSTER COMMUNICATIONS

- 804P CATT, L.J. & LONGSTAFF, A. Biphasic inotropic response to histamine in guinea-pig right ventricular muscle.
- 805P CALDAS, L.Q.A., HICKS, R. & OSHODI, R.O. Contractility of granulation tissue to oxidising agents and ferrochromium metal-fume components.
- 806P CAREY, F., HAWORTH, D. & WHALLEY, E.T. Pro-inflammatory effects of cyclic kinin analogues.
- 807P CLEGG, S. & WHALLEY, E.T. Antagonism of the algescic action of bradykinin on the human blister base.

- 808P DAWSON, J. & HANAHOE, T.H.P.
The dextran reaction and IgE
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- 809P EL-MAHDY, N. & NICHOLLS, P.J.
Effect of cotton bract extract
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- 810P ELASED, K.M. & NAYLOR, I.L.
Croton oil induced myofibro-
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- 811P LAL, C. & NAYLOR, I.L.
The role of calcium ions and
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- 812P CASHIN, C.H., CLEGG, J.B.
CLINE, A. & GREENHAM, A.
Some observations on the
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- 813P HORTH, C.E., LOBO, P.J. & WILSON,
K. Propranolol plasma concentra-
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- 814P BALL, I.J., HAWKES, J.E., NEY, U.M.,
WESTMACOTT, D. & WILLIAMS, D.
Effects of retinoids in an immune
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- 815P BALL, I.J., HAWKES, J.E., NEY, U.M.,
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- 816P BRADSHAW, D., DODGE, B.B., FRANZ,
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Comparative effects of tenoxicam
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- 817P BLOXHAM, D.P., BRADSHAW, D.,
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Role of interleukin-1 in the
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- 818P PARSONS, D.N., SCHNEIDER, C. &
SMITH, T.W. Peripheral anti-
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- 819P HUNT, W.B., O'HAGAN, D.T. &
WILKINSON, J. Adenosine and
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non-cholinergic nerve stimulation.
- 820P HUMPHREY, P.P.A., LUMLEY, P. &
WHITE, B.P. The agonist action
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- 821P GREENIDGE, E., SUER, A.J., TUGWELL,
C. & WALI, F.A. Effect of verapamil
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- 822P MUNBY, J. & WILSON, K.A.
Noradrenaline responses of vascular
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ethinyloestradiol or norethisterone.
- 823P COX, R.T.L. & WALKER, R.J.
DibutyrylcAMP, forskolin and MDL
12,330A modulate dopamine inhibition
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helix neurones.
- 824P HASSONI, A.A., KERKUT, G.A. &
WALKER, R.J. The action of amidantel
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- 825P BANNER, S.E., CATTELL, K.J. &
OSBORNE, R.H. Effects of
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- 826P CANNELL, R., KELLAM, S., OWSIANKA,
A. & WALKER, J.M. (Introduced by
WILKINSON, J.) Rapid screening of
algal cultures for enzyme inhibitors
with potential pharmacological
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- 827P EDEN, R.J., OWEN, D.A.A. & PATEL,
B. The lack of effect of sodium
L-3,3, 5-triiodothyronine on lead
II ECG signals in conscious cats.

- 828P FORSYTH, K.M., LESLIE, C.A. & POLLOCK, D. Thyroxine alters pre- and post-synaptic sensitivity in the mouse vas deferens.
- 829P ELLIS, D., EMMET, J.C., FLYNN, S.B., LEESON, P. & UNDERWOOD, A.H.* 838P GUIMARAES, S., MOURA, D. & PAIVA, M.Q. (Introduced by BRITTAIN, R.T.) Effects of phentolamine on the release of [^3H]-(-)- and endogenous -noradrenaline by direct electrical stimulation of vasa deferentia.
- 830P DOWNING, O.A., HUMPHREYS, A-L, TODD, M.H. & WILSON, K.A. Cirazoline and UK-14,304 reverse ischaemic depression of skeletal muscle contractions.
- 831P NICHOLLS, P.J. & RAO, S. Aminoglutethimide potentiates the anti-nociceptive activity of meptazinol in mice.
- 832P ABUSREWILL, M., AHMAD, B. & NICHOLLS, P.J. Tolerance to the CNS effects of aminoglutethimide in mice.
- 833P BIRCH, P.J., HAYES, A.G. & SPRAGGS, C.F. Studies on the delta opioid receptor mediated inhibition of Isc in the isolated guinea-pig ileal mucosal preparation.
- 834P KEERY, R.J. & LUMLEY, P. Does feverfew extract exhibit phospholipase A_2 inhibitory activity in vivo?
- 835P FRAZER, C.E., RITTER, J.M. & TAYLOR, G.W. pH dependent stimulation by free calcium of prostacyclin synthesis by rat aortic rings.
- 836P HEAD, G.M. & ROBERTS, N.A. A novel cyclohexanetrione derivative which stimulates the production of prostaglandins by rat polymorphonuclear leucocytes (PMN).
- 837P AKSOY, A., GRAGOE, E.J., RITTER J.M. & TAYLOR, G.W. Action of inhibitors of Na^+/H^+ exchange on calcium stimulated prostacyclin synthesis by rat aortic rings.
- 839P BARWELL, C.J., LAFI, M.A.K. & LEAKE, L.D. Pharmacological action of hordenine (N,N-Dimethyltyramine) on the rat vas deferens.
- 840P BATES, R.F.L., BUCKLEY, G.A. & PARKER, J.E. Calcitonin in endotoxin shock.
- 841P DOWNING, O.A., STEIN, W.K. & WILSON, K.A. A differential effect of prazosin on the two phases of EGTA-resistant contractions of rat aorta to noradrenaline.
- 842P DOCHERTY, J.R. Prejunctional inhibitory actions of α_1 -adrenoceptor agonists in the rat.
- 843P DOCHERTY, J.R. & WARNOCK, P. Prejunctional inhibitory 5-hydroxytryptamine (5-HT) receptors in the rat heart and vas deferens.
- 844P KERR, M.B. & SENIOR, J. Systemic and specific regional haemodynamic differences between a normotensive and hypertensive strain of rat.
- 845P AUSTIN, C.E. & CHESSE-WILLIAMS, R. The adrenoceptors of the young chick heart.
- 846P COOPER, A.J. & NATOFF, I.L. The adrenal medulla obscures sympathetic inhibition by SAR[1]-LEU[8]-AII and the ace inhibitor cilazapril in the pithed SH rat.

- 847P COLLIS, M.G. & NOWELL, C.G. Investigation of the receptors mediating in vivo vasodilator responses to A.T.P. and adenosine.
- 848P GUMBLETON, M., NICHOLLS, P.J. & NORRIS, M.J. Urinary enzyme excretion and the detection of drug-induced renal damage in the rat.
- 849P DAVIS, S.S., PALIN, K.J. & WOOLFREY, S.G. The effect of miglyol 812 oil on the gastrointestinal absorption of propranolol.
- 850P HORTH, C.E., LOBO, P.J. & WILSON, K. Effect of plasma protein binding on uptake of some steroids by isolated adipocytes.
- 851P MAGGS, J.L. & PARK, B.K. The metabolism of sorbinil in the rat.
- 852P ARROL, S., CUTLER, M.G. & MOORE, M.R. Pharmacological effects of haem biosynthetic intermediates in isolated intestinal preparations.
- 853P DOCHERTY, J.R. & SAWYER, R. Usefulness of phenylephrine and sodium nitroprusside in baroreflex assessment.
- 854P POLASCIK, T. & WATSON, S.P. Neomycin stimulates secretion and aggregation in saponin-permeated human platelets.
- 855P BUSHFIELD, M., LUMLEY, P. & MACINTYRE, D.E. Synergistic activation of human platelets in whole blood.
- 856P KHINDER, J., MARTIN, L., WILSON, K. & YORK, M. (Introduced by BRITTAI, R.T.) Inhibition of histamine-N-methyltransferase by ranitidine analogues.
- 857P BURNSTOCK, G., HOPWOOD, A.M., HOYLE, C.H.V., REILLY, W.M., SAVILLE, V.L., STANLEY, M.D.A. & WARLAND, J.J.I. Reactive blue-2 selectively antagonises the relaxant responses to ATP and its analogues which are mediated by the P_{2y} purinoceptor.
- 858P KENNY, B.A., KILPATRICK, A.T. & SPEDDING, M. Changes in [³H]-nitrendipine binding in gerbil cortex following ishaemia.
- 859P BADAWY, A.A.-B. The acute effects of lofepramine and desmethylinipramine on tryptophan metabolism and disposition in the rat.
- 860P ANDREWS, P.L.R., DAVIS, C.J., GRAHAME-SMITH, D.G. & MASKELL, L.B. Apomorphine-induced vomiting in the ferret; anomalies of response to dose and route of administration.
- 861P FLETCHER, G.H. & STARR, M.S. Intrastratial SKF 38393 reveals spatial heterogeneity of dopamine D₁ receptor-mediated behaviours.
- 862P KILPATRICK, I.C., STARR, B.S. & STARR, M.S. The dopamine D₁ receptor agonist SKF 38393 potentiates D₂ motor responding in reserpinised mice.
- 863P CLARK, M. & FLETCHER, A. (Introduced by STEPHENS, R.J.) Does buspirone elicit feeding by a similar mechanism to that of 8-OH-DPAT?
- 864P BAGUST, J., GARDNER, C.R.*, HUSSAIN, S. & WALKER, R.J. Relative potency of gamma-aminobutyric acid (GABA) and GABA analogues on cell activity in rat cerebellar slices.

- 865P BRADFORD, H.F., COLLINS, J.F., CROUCHER, M.J. & CROWDER, J.M. Excitatory amino acid receptor activation and enhanced Ca^{2+} influx into rat hippocampal slices.
- 866P DOLIN, S.J., GRANT, A.J., HUNTER, A.B. & LITTLE, H.J. Anticonvulsant profile and whole brain concentrations of nitrendipine and nimodipine.
- 867P GARDNER, C.R. & MANN, G. Incomplete overlap of interoceptive stimuli induced by CL 218872 and chlordiazepoxide.
- 868P MORINAN, A. & PARKER, V. Anxiolytic effects of chloridiazepoxide in socially isolated rats.
- 869P FOSTER, A.C., GRIMWOOD, S. & KEMP, J.A. Electrophysiological and radioligand binding studies of N-methyl-D-aspartate receptors in rat cerebral cortex.
- 870P FOSTER, A.C., GILL, R. & KEMP, J.A. Protection of N-methyl-D-aspartate-induced neuronal degeneration by systemic administration of MK-801.
- 871P FILE, S.E., McCULLOCH, J. & PRATT, J.A. Increased local cerebral glucose utilization in limbic regions induced by FG 7142.
- 872P DICKINSON, S.L. GADIE, B. & TULLOCH, I.F. Differential effects of specific α -adrenoceptor antagonists on catecholamine mediated behaviour.
- 873P BENDER, J., DAVIS, M.G., HARRIS, G. & PULS, W. (Introduced by HUNT, W.B.) Evidence for a humoral factor affecting food intake in rats.
- 874P BLACKMAN, D.E., McCARTHY, P.S. & NAYLOR, V.J.H. Contrasting effects of (+) and (-)-N-allyl-normetazocine during drug discrimination trials.
- 875P BAKER, M.K., JENNER, P. & MARSDEN, C.D. Neurotransmitter release interactions in the rat striatum.
- 876P BOYCE, S., DEXTER, D.T., JENNER, P. & MARSDEN, C.D. Chronic trifluoperazine treatment does not induce lipid peroxidation in rat cortex.
- 877P JENNER, P., MARSDEN, C.D. & WELLER, M.E. Detection of [^3H]-SCH 23390 binding sites in tissue slices from rat brain stem.
- 878P ARBUTHNOTT, G.W., BUTCHER, S.P., FAIRBROTHER, I.S. & KELLY, J.S. In vivo microdialysis studies on dopamine release from the striatum evoked by nigrostriatal stimulation.
- 879P ARBUTHNOTT, G.W., BUTCHER, S.P., FAIRBROTHER, I.S. & KELLY, J.S. On the mechanisms underlying amphetamine induced dopamine release: in vivo microdialysis studies.
- 880P BRODIE, M.E., BROWN, A.W., OPACKA, J. & PETERSON, D.W. Changes in amino acid levels in hippocampal dialysates associated with early trimethyltin neurotoxicity.

DEMONSTRATIONS

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| 881P DEWHURST, D.G. & MEEHAN, A.S.
Microcomputer analysis of
sensory-evoked convulsive
activity. | 883P GENT, J.P. & HUGHES, I.E.
A pharmacology 'short notes' tutor
who works for nothing and never gets
it wrong. |
| 882P DEWHURST, D.G. & MEEHAN, A.S.
Computer-simulation practical
teaching using the BBC micro-
computer: properties of
nerve. | 884P DAINITY, I.A., McGRATH, J.C. &
SPEDDING, M. A simple inexpensive
method of storage and analysis of
data from pharmacological concentra-
tion responses. |