

# COMMUNICATIONS

- 595P DARRAGH, A., LAMBE, R., LENEHAN, T., O'REGAN, D. & SWEENEY, F. *In vitro* effects of a D-homo-corticosteroid on human lymphocyte and human embryonic lung fibroblast proliferation.
- 596P CANNON, P., CLIMAX, J., DARRAGH, A., LAMBE, R. & LENEHAN T.J. The action of selected anti-microbial agents on certain functions of human leucocytes.
- 597P COOTE, P.R., DI ROSA, M., FLOWER, R.J., MERRETT, M., PARANTE, L. & WOOD, J.N. Detection and isolation of a steroid-induced antiphospholipase protein of high molecular weight.
- 598P HIGGS, G.A., MONCADA, S. & MUGRIDGE, K.G. Prostacyclin inhibits leukotriene-induced contractions of airway smooth muscle.
- 599P GARLAND, L.G. & SHIELDS, P.A. Airway hyperreactivity *in vivo*, induced by non-steroidal anti-inflammatory drugs in guinea-pigs.
- 600P MACINTYRE, D.E. & POLLOCK, W.K. Does trimethoquinol inhibit thromboxane A<sub>2</sub>-induced human platelet activation by blocking a specific transduction mechanism?
- 601P HANAHOE, T.H.P. & STYLLI, C. Arachidonic acid and histamine release from rat mast cells.
- 602P HANSEN, D., SALMON, J.A. & WHITTLE, B.J.R. Ulcerogenesis and prostanoid inhibition in the cat gastric antrum induced by parenteral aspirin but not salicylate.
- 603P ARMSTRONG, R.A., JONES, R.L. & WILSON, N.H. PGF<sub>2α</sub> is not a TXA<sub>2</sub> receptor antagonist on human platelets.
- 604P BOUGHTON-SMITH, N.K., HAWKEY, C.J. & WHITTLE B.J.R. Sulphasalazine and the inhibition of thromboxane synthesis in human colonic mucosa.
- 605P BHOOLA, K.D., GADD, A. & MAGUIRE, J. Does immunological sensitization affect the activity of guinea-pig lung adenylate cyclase?
- 606P BRINE, J.M., CALCUTT, C.R., NILAM, F., POAT, J.A., SMITH, I.R. & WOODRUFF, G.N. The effect of histamine H<sub>1</sub>- and H<sub>2</sub>-receptor antagonists on histamine-stimulated cAMP accumulation in chick cerebral cortex slices.
- 607P BLACK, J.W., BRAZENOR, R.M., GERSKOWITCH, V.P. & LEFF, P. The problem of insurmountable antagonism in 5-hydroxytryptamine receptor classification.
- 608P RAMAGE, A.G. Effects of ketanserin and methysergide on the cardiovascular system of the cat.
- 609P MURPHY, J.J. & RYAN M.P. Stimulation by propranolol of (<sup>86</sup>Rb) fluxes in rat thymocytes.
- 610P FRANKISH, N.H. Verapamil and bepridil on potassium-evoked contractures of guinea-pig ileum.
- 611P COPP, F.C., HIGGS, G.A., MONCADA, S. & MUGRIDGE, K.G. Inhibition of calcium-dependent responses by BW755C.
- 612P BOLT, G.R. & SAXENA, P.R. Cardiovascular profile of felodipine, a new Ca-antagonist, in conscious renal hypertensive rabbits: A comparison with hydralazine.

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

- 613P ANDERSON, K.A. & MARSHALL, R.J. The effects of calcium antagonists on the neuromuscular blocking actions of vecuronium bromide in anaesthetized cats.
- 614P ANDERSSON, K.-E., HÖGESTÄTT, E.D., LARSSON, B. & MATTIASSON, A. Effects of three  $\text{Ca}^{2+}$ -entry blockers on contraction, noradrenaline release and  $\alpha$ -adrenoceptor binding in the female rabbit urethra.
- 615P HILEY, C.R. & NICHOLS, A.J.  $\alpha$ -adrenoceptors in the *in situ* blood perfused superior mesenteric arterial bed of the rat.
- 616P FRENCH, A.M. & SCOTT, N.C. Noradrenaline concentration at prejunctional  $\alpha_2$ -adrenoceptors after single pulse stimulation.
- 617P DOCHERTY, J.R. No evidence for differences between pre- and postsynaptic  $\alpha$ -adrenoceptors of the same subtype.
- 618P BROADLEY, K.J. & CHESS-WILLIAMS, R.G. Cardiac  $\beta$ -adrenoceptor characteristics after chronic treatment with  $\beta$ -adrenoceptor antagonists.
- 619P BROADLEY, K.J., HAWTHORN, M.H. & HUNT, S.A. Differences in specificity of reserpine-induced supersensitivity at cardiac  $\beta$ -adrenoceptors and aortic  $\alpha$ -adrenoceptors.
- 620P HILL, R., KEENAN, A.K., NELLIGAN, M. & O'MALLY, E. Facilitatory presynaptic  $\beta$ -adrenoceptors in human atria.
- 621P KERR, M.J. & SHANKS, R.G. The effect of pinacidil on experimental cardiac arrhythmias in dogs.
- 622P UNZETA, M., CASTRO, J., GOMEZ, N. & TIPTON, K.F. Comparisons between the monoamine oxidase activities associated with mitochondria and microsomes in rat liver.
- 623P CALLINGHAM, B.A. & CHAKRAVERTY, S.C. Effects of quinacrine on monoamine oxidase activities in some tissue of the rat.
- 624P GARCHA, G., IMRIE, P.R., MARLEY, E. & THOMAS D.V. Effects of monoamine oxidase inhibitor pretreatment on the fate of intraduodenally instilled ( $^{14}\text{C}$ )- $\beta$ -phenethylamine.
- 625P CLANACHAN, A.S. & HAMMOND, J.R. Drug interactions with the CNS nucleoside transport system.
- 626P FARMER, S.G. & LANIYONU, A.A. The effect of p-chlorophenylalanine on subsensitivity of rat intestine to 5-hydroxytryptamine (5HT) during a nematode infection.
- 627P MILLER, A.A. & O'DONNELL, R.A. Certain anticonvulsants inhibit folate accumulation into rat brain *in vivo*.
- 628P WOODWARD, B. & ZAKARIA, M.N.M. The effects of free radical scavengers on reperfusion arrhythmias in the isolated rat heart.
- 629P KOVACS, T. & O'DONNELL, J.M. Influence of isoprenaline and propranolol on binding of DHA and propranolol in rat heart.
- 630P LITTLE, H.J. Actions of benzo-diazepine antagonists on the rat superior cervical ganglion.
- 631P ANWYL, R., BRUTON, J.D. & MCLOUGHLIN, J.V. Action of multivalent cations on the caffeine contracture of rat soleus muscle.
- 632P KRUK, Z.L. & STAMFORD, J.A. Characterisation of catecholamines by high speed cyclic voltammetry.
- 633P CLARKE, G. & WRIGHT, D.M. Opiates at analgesic doses suppress oxytocin release in the rat.
- 634P CUTLER, M.G. & MACKINTOSH, J.H. Effects of cannabis and THC on social behaviour in mice.

- 635P CHAPMAN, J.B. & CUTLER, M.G. Sodium valproate: effect on development and social behaviour in the offspring of mice.
- 636P MOLLOY, A. & WADDINGTON, J.L. Behavioural stimulation by the atypical dopamine agonist SK & F 38393: stereo-specificity and neuroleptic sensitivity.
- 637P IVERSEN, S.D., THOMAS, S.R. & TRIMNELL, L.E. Benzodiazepine "antagonist" blocks the releasing effect of chlordiaze-poxide on a rat conflict test.
- 638P BUCKETT, W.R. & LUSCOMBE, G.P. Dothiepin and desipramine induce different changes in nor-adrenergic and serotonergic behaviour after subchronic treatment.
- 639P MORINAN, A. Changes in brain acetylcholinesterase activity after chronic ethanol administration and withdrawal.
- 640P KEANE, B. & LEONARD, B.E. Effect of clonidine administration on alcohol withdrawal: changes in membrane-bound enzymes.
- 641P BENNETT, G.W., COOPER, S., EGLIN, A. & MARSDEN, C.A. The effect of N-acetylhistamine on regional TRH levels in rat brain and spinal cord.
- 642P CLARKE, B. & MACMILLAN, S.J. 5-hydroxytryptamine, opioid peptides and the modulation of bursting activity in rat arcuate neurones *in vitro*.
- 643P SANDERSON, G. & SCHOLFIELD, C.N. The pharmacology of adenosine and dipyridamole on excitatory transmission in the guinea-pig olfactory cortex.
- 644P BOWERY, N.G., PRICE, G.W., TURNBULL, M.J. & WILKIN, G.P. Locus of GABA<sub>B</sub> sites in the spinal cord.
- 645P MUSTAFA, A.A., POAT, J.A., SENIOR, K.A. & WOODRUFF, G.N. Effect of some tetrahydronaphthalenes on CNS dopamine activity.
- 646P WATLING, K.J. Interaction of the enantiomers of 3-PPP with post-synaptic dopamine-sensitive adenylate cyclase in carp retina.
- 647P MAIDMENT, N.T. & MARSDEN, C.A. A Study of mesolimbic dopamine auto-receptor function using *in vivo* voltammetry.
- 648P CROSSMAN, A.R., LATHAM, A., PATEL, S. & SLATER, P. A study of some brain areas involved in the myoclonus produced by intrastratial administration of picrotoxin.
- 649P HICKS, P.E. & LNAGER, S.Z. Tetrahydro- $\beta$ -carboline (THBC), an antagonist of tryptamine-induced contractions in perfused rat tail artery.

## P O S T E R   C O M M U N I C A T I O N S

- 650P BERENDSEN, H.H.G. & GOWER, A.J. Opiate influences on drug-induced yawning in the rat.
- 651P JOHNSON, A.M., NELSON, D.R., NICHOLASS, J.M., RICHARDS, P.E. & THOMAS, D.R. Further studies on the biochemical and pharmacological properties of the enantiomers of mianserin.

- 652P GADIE, B., MCCARTHY, P.S. & TULLOCK, I.F. Analysis of cortical EEG synchronization induced by clonidine in the conscious rabbit.
- 653P RICK, J.T., SIMKINS, M., SUTHERLAND, J. & TABERNER, P.V. A non-invasive behavioural assessment for anxiolytic drugs in rats.
- 654P BHOOLA, K.D. & PAY, S. Inhibition by  $\beta$ -endorphin and D-al<sup>2</sup>-D-leu<sup>5</sup>-enkephalin of membrane-bound adenylate cyclase in the rat vas deferens.
- 655P O'BOYLE, K.M. & WADDINGTON, J.L. Effects of the R- and S-enantiomers of SK & F 38393 on (<sup>3</sup>H)-piflutixol and (<sup>3</sup>H)-spiperone binding to D<sub>1</sub> and D<sub>2</sub> dopaminergic sites.
- 656P PATEL, S. & SLATER, P. Tritium film autoradiography of  $\kappa$  opiate receptors in rat brain.
- 657P GRIFFITHS, E.C., SLATER, P. & WIDDOWSON, P.S. Effects on limb tone on neurotensin, TRH and  $\beta$ -endorphin injected into the periaqueductal grey region of rat brain.
- 658P BARRINGTON-WARD, S., KILPATRICK, I.C., PHILLIPSON, O.T. & PYCOCK, C.J. Is the thalamo-striatal pathway cholinergic?
- 659P GRAY, P.L. & TABERNER, P.V. Behavioural effects of GABA-mimetics in barbitol treated mice.
- 660P CONNOLLY, D.M. & TABERNER, P.V. Insulin administration and ethanol preference in LACG and diabetogenic C57BL strains of mice.
- 661P ANUKA, J. & THOMAS, P.J. The effect of 17  $\beta$  oestradiol upon (<sup>3</sup>H)-mepyramine binding in the rat brain.
- 662P LUSCOMBE, D.K. & MCLENNAN, S. Inhibition of food and water intake by some antidepressants.
- 663P LITTLETON, J.M. & LYNCH, M.A. Characterisation of increased neurotransmitter release from brain preparations obtained from ethanol-tolerant rats.
- 664P DAVIS, A., DUMBRILLE-ROSS, A. & TANG, S.W. Differentiation between platelet and cortical (<sup>3</sup>H)-imipramine binding sites.
- 665P DYE, A., PAGE, C.M. & WHITING, R.L. The time course of rat cerebrocortical  $\beta$ -adrenoceptor down-regulation following RS-21361 and desmethylinipramine treatment.
- 666P DEWAR, D., JENNER, P. & MARSDEN, C.D. Behavioural effects of unilateral and bilateral intrapallidal injections of opiate receptor agonists.
- 667P JENNER, P., LUSCOMBE, G. & MARSDEN, C.D. Interaction of 5-HT agonists with guinea-pig brain stem 5-HT receptors and the induction of myoclonus.
- 668P ANWYL, R. & ROWAN, M.J. Chronic imipramine treatment antagonizes the inhibitory effect of 5-hydroxytryptamine in the rat hippocampal slice.
- 669P CORBETT, A.D., GILLAN, M.G.C., KOSTERLITZ, H.W., MCKNIGHT, A.T. & PATERSON, S.J. Tyr-D-Pen-Gly-Phe-L-Pen and Tyr-D-Pen-Gly-Phe-D-Pen are selective ligands for the  $\delta$ -binding site.
- 670P EARLEY, B. & LEONARD, B.E. The effect of salbutamol on the activity of the olfactory bulbectomized rat in the 'open field' apparatus.
- 671P BARRAND, M.A., CALLINGHAM, B.A. & FOX, S.A. Amine oxidase activities in isolated brown fat cells and in fat cell membrane preparations.

- 672P HAMILTON, C.A., HOWIE, C.A., REID, J.L. & SUMNER, D.J. Changes in brain  $\alpha$ -adrenoceptors with age.
- 673P BRILEY, M. & MORET, C. Is 5-HT uptake regulated by the 5-HT autoreceptor?
- 674P BOJKOWSKI, C.J., KAI-KAI, M.A., KEEN, P. & KILPATRICK, I.C. On the 5-hydroxytryptamine content of rat sensory ganglia.
- 675P OBERLANDER, C. Effects of a potent 5-HT agonist, RU 24969, on the mesocorticolimbic and nigrostriatal dopamine systems.
- 676P BARDELAY, C., COUSTY, D. & HUNT, P. Different pre- and post-synaptic dopaminergic effects of 3PPP enantiomers.
- 677P THOMAS, P.J. & TUOHY, P. The effects of oestrogen on the fatty acid content of the brain.
- 678P BRENNAN, E. & BRIGGS, R.S. Interaction of meptazinol with muscarinic binding sites.
- 679P CALVETE, J.A., HARVEY, R.A.H. & SLOAN, T.P. Binding of ( $^3\text{H}$ )-tiotidine in mouse vas deferens.
- 680P CAMERON, I., EBENEZER, I., MCDUGALL, P. & MARKHAM, A. The effect of  $\alpha$ - and  $\beta$ -adrenoceptor antagonists on rat hepatic mitochondrial calcium uptake.
- 681P GOKHALE, S.D. & SHARIF, S.I. Assessment of agonist activity of certain drugs at the postjunctional  $\alpha$ -adrenoceptors of the rat isolated seminal vesicle.
- 682P HILEY, C.R. & WILSON, A.C. Effect of chemical sympathectomy on the response of the hepatosplanchnic bed to phenobarbitone in the rat.
- 683P HAYES, R.J. & SLOAN, T.P. The response of human vas deferens to drugs modifying noradrenergic neurotransmission.
- 684P RICHARDSON, W. & SWEETMAN, A.J. A comparative study of the actions of  $\alpha$ -tocopherol and verapamil on the guinea-pig portal vein.
- 685P CALLANAN, K. & KEENAN, A.K. The calcium dependence of evoked noradrenaline release from sympathetic nerves: evaluation using D600, nifedipine, dantrolene.
- 686P KEENAN, A.K. & MURRAY, R. Properties of the chicken erythrocyte catecholamine-dependent adenylate cyclase system.
- 687P GILNA, P. & MARTIN, F. Domperidone and basal and TRH-stimulated prolactin secretion in the ovariectomized rat.
- 688P GILNA, P. & MARTIN, F. A single administration of tamoxifen potentiates oestradiol-induced prolactin secretion in the male rat.
- 689P THAMIA, A.S. & WOOD, D. Inhibitory actions of somatostatin on intraluminal pressure measurements in the guinea-pig isolated stomach.
- 690P BHOOLA, K.D. & LAUAR, N. Release of kallikrein by the isolated perfused rat kidney.
- 691P CRABTREE, H.C., PRATT, I.S. & ROSE, M.S. Gastric damage in the rat produced by the herbicide diquat: similarities to aspirin-induced damage.
- 692P FOONG, W.C. & GREEN, K.L. Treatment of an experimental arthritis with liposome-entrapped methotrexate.
- 693P CUNNINGHAM, F.M., MORLEY, J. & SANJAR, S. Effect of ambroxol on mucociliary transport in the guinea-pig.
- 694P CUNNINGHAM, F.M., MORLEY, J. & SANJAR, S. Effect of mucolytic agents on frog mucociliary transport.

- 695P DEVANE, J., & RYAN, M.P. Aldosterone and renal magnesium excretion: an acute clearance study in adrenalectomized rats.
- 696P DUNNE, A., RYAN, M.P. & THORNTON, L. Kinetic modelling of *in vivo* exchange of magnesium in rat tissue.
- 697P MURPHY, J.J., RYAN, M.P. & TIERNEY, C. Investigation of a loop diuretic-sensitive ion transport system in rat thymocytes.
- 698P COUNIHAN, T.B., GARVEY, E., & RYAN, M.P. Investigation of cardioprotection by  $\beta$ -adrenoceptor antagonists in clinical and experimental myocardial infarction.
- 699P BACK, D.J. & SIM, S.M. Comparative absorption of oestrogen conjugates from the gastro-intestinal tract of the rat: effect of ampicillin.
- 700P PITZKE, B., RUCKER, W. & SCHROR, K. Formation of  $\text{PGI}_2$ ,  $\text{PGE}_2$  and  $\text{TXB}_2$  in whole blood *in vitro* and its pharmacological modification.
- 701P FENN, C.G. & LITTLETON, J.M. Dietary fat influences the inhibitory effect of alcohol on human platelet aggregation.
- 702P HALL, M.T., HAMILTON, C.A., KANE, K.A., REID, J.L., RODGER, I.W. & WADSWORTH, R.M. Hyper-reactivity to noradrenaline in isolated arteries from rabbits with perinephritis hypertension.
- 703P WALI, F.A. Comparison between the neuromuscular effects of ketamine and methohexitone.
- 704P PAYNE, J.P. & WALI, F.A. Atracurium reduces the presynaptic release of acetylcholine at the vertebrate neuromuscular junction.
- 705P CAMERON, I., MARKHAM, A., MORGAN, R.M. & WOOD, M. The effect of cadmium on rat hepatic mitochondrial oxidative phosphorylation.
- 706P GARNETT, P.J. & TODD, M.H. Evidence that  $\alpha$ -tocopherol protects against hypoxia in guinea-pig atria by membrane stabilisation.
- 707P TEMPLETON, D. & WYETH, P. m-Iodobenzylguanidine: an adrenal imaging agent.
- 708P LOVETT, G.S., SWEETMAN, A.J. & WYATT, V. Evidence for the presence of two calcium transport systems in mitochondria isolated from guinea-pig liver, using verapamil.
- 709P FINNEY, M.J.B., KARLSSON, J.-A. & PERSON, C.G.A. An alternative human small airway preparation.
- 710P FINNEY, M.J.B., GUSTAFSSON, B., KARLSSON, J.-A., PERSSON, C.G.A. & SONMARK, B. Effect of terbutaline, theophylline and enprofylline in tracheas bronchi and lung strips contracted by proposed asthma mediators.
- 711P CHATELUS, A., CIVIER, A., HENSBY, C.N., JOSE, P., SHROOT, B., VUILLE, F., WILLIAMS, K.I. & WILLIAMS, T.J. Prostaglandin release and increased vascular permeability due to histamine in mini-pig skin are mediated via  $\text{H}_1$  receptors.
- 712P RAWLINS, M.D., RETTIE, A.E. & WILLIAMS, F.M. Localisation of benzo-( $\alpha$ )pyrene hydroxylase and aldrin epoxidase in neonatal rat skin.
- 713P NING, A.C.W.S. & POYSER, N.L. Studies on the control of arachidonic acid turnover in guinea-pig endometrium.

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| 714P | DUNNE, A. & WILSON, L.<br>Multiexponential parameter<br>estimation: elimination of bias.  | 717P | ARBILLA, S., LANGER, S.Z. &<br>RAMIREZ GONZALEZ, M.D.<br>Inhibition by opiates of the<br>evoked release of ( <sup>3</sup> H)-ACH:<br>differences between corpus<br>striatum and tuberculum olfactor-<br>ium. |
| 715P | BENTLEY, G.A. & STARR, J. The<br>effects of buprenorphine on opioid<br>receptors in the mouse peritoneum.                                     | 718P | GALZIN, A.M., LANGER, S.Z. &<br>VERZIER, B. Citalopram<br>antagonises the stimulation by<br>5-methoxytryptamine of inhibitory<br>5-HT autoreceptors in the rat<br>hypothalamus.                              |
| 716P | ALLAN, G. & BROOK, C.D.<br>Deleterious effect of ibuprofen in<br>a reperfusion model of myocardial<br>infarction in the anaesthetised<br>dog. | 719P | JENNER, P., KELLY, E. & MARSDEN,<br>C.D. Components of circling<br>behaviour produced by intranigral<br>injection of amphetamine.  |

# C O N T R I B U T I O N      B Y      T I T L E      O N L Y

- 720P BENZONI, F., BONNEVALLE, C., BROWN,  
N.L. & WORCEL, M. Characterization  
of an *in vivo* model for chronotropic  
activity, the denervated rat heart.