

ORAL COMMUNICATIONS

In oral communications with more than one author, the first author is the one who intended to present the work

- 1P **Rowe DTD, Garland CJ & Plane F** Multiple pathways underlie NO-independent relaxation to the calcium ionophore A23187 in the rabbit isolated femoral artery
- 2P **Sedhev J, Garland CJ & Plane F** Further characterisation of the mediator of NO-independent dilatation to acetylcholine in the rat isolated perfused mesenteric bed
- 3P **Plane F & Garland CJ** The role of cyclic GMP and potassium channels in NO-independent relaxation of the rabbit isolated femoral artery
- 4P **Ceiler DL, Nelissen-Vrancken HJMG, Smits JFM & De Mey JGR** Vasoconstrictor hyporeactivity in perfused rat hindlimbs after myocardial infarction (MI): role of basal nitric oxide (NO) production and effects of captopril
- 5P **Wray G, Millar C, Leach M, Hinds C & Thiemermann C** The selective inhibitor of inducible nitric oxide synthase (1400W) prevents the circulatory failure but not the organ injury caused by endotoxin in the rat
- 6P **Schmidt HHHW, Siebe J, Clement B & Feelisch M** 1H-[1,2,4]oxadiazolo[4,3- α]quinoxalin-1-one (ODQ) is not a selective inhibitor of soluble guanylyl cyclase: interference with NO-synthase and nitrovasodilator biotransformation
- 7P **Kotsonis P, Frölich LG, Bömmel HM, Relf AJ & Schmidt HHHW** Functional enzyme kinetic studies on binding site interactions of active neuronal nitric oxide synthase
- 8P **Bömmel HM, Relf A, Frölich LG, Hofmann H, Marecak DM, Groehn V, Frey A, Meinecke M, Kotsonis P, Bernhardt M, Prestwich GD, Pfeleiderer W & Schmidt HHHW** Novel anti-pterin inhibitors of NO synthase: exclusion of a catalytic but evidence for a stabilising function in NO synthase and direct labelling of the enzyme's pterin binding site
- 9P **Dowell FJ & Martin W** Interaction of peroxynitrite with L-cysteine and its analogues
- 10P **MacKenzie A & Martin W** A superoxide dismutase mimetic protects acetylcholine-induced relaxation from oxidant stress in the rabbit aorta
- 11P **Hamilton LC, Mitchell JA & Warner TD** Use of selective enzyme inhibitors provide no evidence for cross-talk between inducible nitric oxide synthase and cyclooxygenase-2 in endotoxin-treated rats
- 12P **Thorin E, Huang P, Fishman MC & Bevan JA** Nitric oxide inhibits the vasorelaxant endothelial α_2 -adrenergic pathway in mice
- 13P **Forster C, Iral A & Razavi H** The effect of aminoguanidine on acetylcholine-induced relaxation responses in rat blood vessels
- 14P **Lebrun Ph, Colin F & Manil J** Pharmacological characterization of nociceptive components of the cortical somatosensory evoked potential of the rat
- 15P **Salt TE & Turner JP** Antagonism of metabotropic glutamate receptor-mediated responses and nociceptive responses by the mGluR1-selective antagonist LY367385 in the rat thalamus
- 16P **Collins SD, Clayton NM, Nobbs M & Bountra C** The effect of 4030W92, a novel sodium channel blocker, on the treatment of neuropathic pain in the rat
- 17P **Pinkney JM, Kingston WP, Thomas NK, Jane DE & Pook PC-K** Electrophysiological characterisation of 1-aminoindan-1,5-dicarboxylic acid on the neonatal rat spinal cord preparation
- 18P **Hicks GA, Feniuk W & Humphrey PPA** Somatostatin (SRIF) activates a K⁺ conductance in anterior cingulate cortical pyramidal neurones by an action on sst₂ receptors
- 19P **Slowe SJ, Kitchen I, Simonin F & Kieffer B** Quantitative autoradiography of opioid receptor subtypes in the brains of κ -receptor knockout mice
- 20P **Clifford JJ, Tighe O, Croke DT, Drago J, Sibley DR & Waddington JL** Behavioural responsivity to the selective D₁-like agonist A 68930 in transgenic mice with D_{1A} dopamine receptor 'knockout'
- 21P **Wooltorton JRA, Whiting P & Smart TG** Cyanotriphenylborate is an uncompetitive inhibitor of human GABA_A recombinant receptors
- 22P **Cleton A, Edelbrock PM, Voskuyl RA & Danhof M** Pharmacokinetic, pharmacodynamic modelling of the EEG effect of the GABA uptake inhibitors R- and S-tiagabine in rats
- 23P **Meoni P, Bunneman BH, Kingsbury AE, Trist DG & Bowery NG** NMDA-sensitive binding and mRNA for the NR1 subunit of the NMDA receptor complex are differentially affected in striatum and associative cortex of Parkinson's disease patients
- 24P **Hayward NJ, Findeis MA, Chin KJ, Grace ML, Huff MR, Kelley MS, Lee JJ, Musso GM, Shufrin DE, Wakefield JD, Ward PJ & Molineaux SM** The effect of PPI-368 on Alzheimer's disease-related amyloid β -peptide polymerization
- 25P **Howlett DR, Markwell RE & Wood SJ** Identification of a novel class of inhibitor of β -amyloid peptide aggregation
- 26P **Ruijtenbeek R, Gibbs CM, Redegeld FAM, Flück M, Liskamp RMJ & Nijkamp FP** Subcloning, expression and purification of murine Syk SH2 domain proteins
- 27P **Soares-da-Silva P, Serrão MP, Vieira-Coelho MA & Gomes P** Involvement of P-glycoprotein on the apical outward transfer of L-3,4-dihydroxyphenylalanine in porcine renal LLC-PK₁ and LLC-GA5 Col300 cells
- 28P **Kirkup AJ, Grundy D, Chessell IP & Humphrey PPA** Action of GR79236 on mesenteric afferent discharge in the anaesthetised rat
- 29P **Megson AC, Shaw PE & Hill SJ** Induction of a c-fos promoter-regulated luciferase reporter gene by N⁶-cyclopentyladenosine in CHO-K1 cells transfected with the human adenosine A1-receptor
- 30P **Boarder MR, Gubby S, Anwar Z, Albert JA, Roberts JA & Boyle JP** Regulation of brain endothelial cell cyclic AMP by adenosine and ATP may indicate the presence of a P3 receptor

- 31P Horton JK, Seddon LS, Williams AS & Baxendale PM A method for measuring intracellular cyclic AMP levels with immunoassay technology and novel, cellular lysis reagents
- 32P Bowen W, McMurray HF, Lall S, Baxter GS & Coleman RA Pharmacological modulation of chloride ion efflux from T84 cells
- 33P O'Connor N & O'Boyle KM G-protein activation through D1 receptors in a hamster kidney cell line
- 34P Billington CK & Hall IP The effects of carbachol and PDGF-BB on DNA synthesis and the proliferation of cultured human airway smooth muscle cells
- 35P Richards JG, Schaffhauser H, Messer J, Bleuel Z, Chaboz S, Klingelschmidt A, Wichmann J, Kemp JA & Mutel V *In vitro* binding characteristics and distribution of the group II metabotropic receptor agonist [³H]LY354740 in rat brain
- 36P Wayman CP, McFadzean I, Gibson A & Wallace P Examination of the mechanisms underlying inhibition of capacitative calcium entry by sodium nitroprusside in the mouse anococcygeus
- 37P Bannister JPA, Young BA, Sivaprasadarao A & Wray D Conserved cysteine residues are critical for the function of the inwardly rectifying potassium channel IRK3
- 38P Henricks PAJ, Kraneveld AD, van Petersen C & Nijkamp FP LCB 2183 inhibits delayed-type hypersensitivity-associated late phase mucosal mast cell activation in mice
- 39P Scheerens H, Buckley TL, Muis T, Vallinga CE, Redegeld FA, Van Loveren H & Nijkamp FP Isolation and biological activity of antigen-specific lymphocyte factors in a murine model for toluene diisocyanate-induced occupational asthma
- 40P Escott KJ, McMillan SJ, Birrell M, Webber SE, Souness JE, Maslen C, Temple R, Iqbal S, Mariucci M, Rose J, Geiger LE, Thurairatnam S, Bower S, Aldous D & Sargent CA Pharmacological profiling of PDE4 inhibitors and analysis of the therapeutic ratio in rats and dogs
- 41P Muijsers RBR, Folkerts G, van den Worm E, Beukelman CJ, Postma DS & Nijkamp FP Inhibition of peroxynitrite formation by apocynin in a murine macrophage cell-line
- 42P Hammerman R, Hirschmann J, Folkerts JG, Nijkamp FP, Wessler I & Racké K Differential effects of poly-cationic peptides on L-arginine utilization by NO synthase and arginase in rat alveolar macrophages (Amφ)
- 43P Kraneveld AD, Henricks PAJ, van Petersen C & Nijkamp FP LCB 2183 profoundly inhibits delayed-type hypersensitivity-associated early phase mucosal mast cell activation in mouse lung
- 44P Newbold P, Mather M & Young A Effect of type IV phosphodiesterase inhibitors against antigen-induced eosinophilia in sensitised guinea-pigs
- 45P Jourdan KB, Evans TW & Mitchell JA Interleukin-1β inhibits proliferation of human pulmonary artery smooth muscle cells via a cyclooxygenase-2 dependent pathway
- 46P Jourdan KB, Mitchell JA & Evans TW Interleukin-1β inhibits proliferation of rat pulmonary artery smooth muscle cells through a nitric oxide-dependent pathway
- 47P de Vries A, Faas S, Engels F, Henricks PAJ & Nijkamp FP Captopril is necessary for bradykinin-induced airway hyperresponsiveness
- 48P De Bie JJ, Henricks PAJ, Jonker EH, Hofman GA, Muis T, Nijkamp FP & Van Oosterhout JM 5-Hydroxytryptamine and histamine are involved in airway hyperresponsiveness and eosinophilia in a murine model of allergic asthma
- 49P MacLean MR & Morecroft I Evidence for 5-HT_{1B/1D} receptor-mediated vasoconstriction in human isolated pulmonary resistance arteries
- 50P Morecroft I & MacLean MR Effect of developmental age on 5-HT receptor-mediated vasorelaxation in perinatal rabbit isolated pulmonary resistance arteries
- 51P Chainey JS & Braun E & Bertrand C & Ball HA *In vivo* characterisation of the tachykinin receptor subtypes in squirrel monkey
- 52P Summers RJ & Papaioannou M, Hamilton S, Evans BA Alternative splicing generates two isoforms of the β₃-adrenoceptor which are differentially expressed in mouse tissues
- 53P Heijenbrok FJ, Pfaffendorf M & van Zwieten PA β-adrenoceptor mediated vasodilation is transiently enhanced in rat aortic arteries with intimal hyperplasia
- 54P De Kimpe SJ, Van Heuven-Nolsen D, Schijns V & Nijkamp FP Blood pressure elevation is associated with a decrease in interferon-γ in mice and rats
- 55P Saxena PR, De Vries P, Heiligers JPC, Bax WA, MaassenVanDenBrink M & Yocca ED Effects of BMS-181885 in experimental models for migraine therapy
- 56P De Vries P, Villalón CM, Heiligers JPC & Saxena PR Porcine carotid haemodynamic effects of alniditan, a selective 5-HT_{1B/1D} receptor ligand
- 57P De Vries P, Villalón CM, Heiligers JPC, De Visser PA & Saxena PR Regional cardiac output distribution during 5-HT₇ receptor-mediated hypotension in rats
- 58P Cunha VMN, Kolar F, Godfraind T & Wibo M Delayed maturation of cardiac calcium channels after aortic constriction in newborn rats
- 59P Harper S, Charlton SJ, Ng LL & Boarder MR Evidence that ATP and UTP regulate spontaneously hypersensitive rat aorta smooth muscle cell proliferation by acting on P2Y₄ receptors
- 60P Becker K, Heinroth-Hoffmann I, Röhnert P, Preiss M, Weisselberg T, Werner C & Brodde O-E Cardiac endothelin-receptor function in three animal models of left ventricular hypertrophy
- 61P Ruetten C, Keil M, Schoelkens BA & Martorana PA YC-1 is not a pure agonist of the soluble guanylate cyclase
- 62P Peters SLM, Batink HD, Michel MC, Pfaffendorf M & Van Zwieten PA Possible mechanism of the negative inotropic effects of α₁-adrenoceptor agonists in rat isolated left atria after exposure to free radicals
- 63P Peters SLM, Mathy MJ, Batink HD, Pfaffendorf M & Van Zwieten PA Influence of H₂O₂ on inotropic responses to adrenoceptor agonists in isolated rat hearts
- 64P Quilley J & Fulton D Evidence against anandamide as an EDHF mediating the vasodilator action of bradykinin (BK) in the rat heart

- 65P **White R & Hiley RC** Studies on the effects of cannabinoid receptor ligands in the small mesenteric artery of the rat
- 66P **Brothie JM, Fox S, Henry B, Hille C, Maneuf Y, McGuire S, Peggs D & Crossman AR** The cannabinoid receptor antagonist SR141716A reduces L-DOPA-induced dyskinesia in the MPTP-treated primate model of Parkinson's disease
- 67P **Nash JE, Crossman AR & Brothie JM** Anti-Parkinsonian effect of NR2B-selective NMDA antagonists: a striatal mechanism of action?
- 68P **Clemett DA, Cockett MI, Marsden CA & Fone KCF** Repeated i.c.v. administration of 5-HT₇ receptor antisense oligonucleotide down-regulates 5-HT₇ receptor binding in the rat hypothalamus without altering exploratory behaviour
- 69P **Neophytou SI, Aspley S, Marsden CA & Beckett SRG** Lamotrigine decreases ultrasound-induced defence behaviours in the Lister hooded rat
- 70P **Sansum AJ, Chessell IP & Humphrey PPA** Characterisation of the purinoceptor subtype which mediates responses to $\alpha\beta$ meADP on rat locus coeruleus neurones
- 71P **Smythe JW & Costall B** Paraventricular nucleus neuronal firing rate and pattern are related to hippocampal theta activity in the rat
- 72P **McKenzie DN, Dyball REJ & Buckingham JC** The role of the hippocampus in control of the hypothalamo-pituitary-adrenal axis: an *in vitro* approach
- 73P **Bennett GC & Boarder MR** P₂ receptor agonists have a modulatory effect of evoked glutamate release from rat cortical slices
- 74P **Mitchell JA, Bishop-Bailey D, Evans TW, Gienbycz MA, Belvisi MG, Chivers S, Williams TJ & Pepper JR** Release of neutrophil activating cytokines by human arterial and venous smooth muscle cells
- 75P **Bakhle YS, Bell C & Brogan JD** Paradoxical inflammatory response to capsaicin in a rat strain with increased tissue content of Substance P
- 76P **Bennett GS, Garrett NE, Diemel L, Brain SD & Tomlinson DR** Neurogenic cutaneous vasodilatation and plasma extravasation in diabetic rats: effect of insulin and nerve growth factor
- 77P **Schuligoi R, Peskar BA & Amann R** Effect of treatment of rats with nerve growth factor on thermal nociception and on calcitonin gene related peptide content of primary afferent neurones
- 78P **Towler PK & Brain SD** Inhibition of saphenous nerve-induced neurogenic oedema formation by nociceptin
- 79P **Clayton NM, Collins SD, Sargent R, Brown T, Nobbs M & Bountra C** The effect of the novel sodium channel blocker 4030W92 in models of acute and chronic inflammatory pain in the rat
- 80P **Labie C, Lafon C, Fournier J, Keane PE, Le Fur G, Maffrand JP & Soubri   P** Effect of the non-peptide neuroprotective compound SR 57746A on NGF and BDNF synthesis in primary astrocytes in culture
- 81P **Kennedy S, McPhaden AR, Wadsworth RM & Wainwright CL** Alterations in adhesion molecular expression on rabbit balloon injured subclavian arteries: modulation of leukocyte adhesion
- 82P **Ohnishi M, Kirkman E & Watkins P** Effects of atropine on the bradycardia associated with primary thoracic blast injury in the anaesthetized rat
- 83P **Harris HJ, Keating SD, Flower RJ, Hannon R & Bryant CE** Generation and characterisation of murine macrophage cell lines transfected with sense and antisense Lipocortin-1 (LC-1) cDNA
- 84P **Harris JJ, Hannon R & Bryant CE** The effect of chronic over-expression of Lipocortin-1 (LC-1) on the cellular responses to lipopolysaccharide (LPS)
- 85P **Grundy RI, Rothwell NJ & Allen SM** Interleukin-1 modifies excitotoxic cell death independently of effects on body temperature
- 86P **Cartmell T & Rothwell NJ** Brain sites of action of interleukin-1 in fever
- 87P **Redegeld FA, Heijdra B, Knippels M-C, Garssen J & Nijkamp FP** Murine macrophages are stimulated to produce nitric oxide by antigen-binding lymphocyte-derived protein factors
- 88P **Coker SJ, Lightbown ID & Hughes DA & Lambert JP & Edwards G** Mefloquine potentiates halofantrine-induced QTc prolongation by altering the distribution of halofantrine
- 89P **Rinia-Feenstra M, de Mol BAJM, Pfaffendorf M & van Zwieten PA** The effect of mibefradil and verapamil on peripheral veins, compared in isolated human saphenous vein preparation
- 90P **Lee Rvd, Pfaffendorf M & van Zwieten PA** Time course of the relaxant action of various calcium antagonists in rat isolated small mesenteric arteries
- 91P **Edmunds NJ & Woodward B** Evidence that an early depression in myocardial contractility caused by tumour necrosis factor- α may result from the activation of the sphingomyelinase pathway in the rat heart
- 92P **Stassen FRM, Lijnen PME, Schiffers PMH, Janssen GMJ, Smits JFM & De Mey JGR** Reduced levels of smooth muscle α -actin mRNA in rat mesenteric resistance arteries following sympathectomy but not myocardial infarction
- 93P **Bowes J, Piper J & Thiemermann C** Inhibition of the activity of poly(ADP-ribose) synthetase reduces cell injury caused by hydrogen peroxide in rat cardiac myoblasts
- 94P **Baxter GF & Yellon DM** Increased myocardial tolerance to ischaemia 24 h after adenosine A₁ receptor stimulation: evidence for a role of the ATP-sensitive K⁺ channel
- 95P **Maassen VanDenBrink, Saxena PR & Danser AHJ** ACE- and chymase-dependent angiotensin I-to-II conversion in the human isolated coronary artery
- 96P **Knowles ID & Ramage AG** The pressor response evoked by activation of forebrain 5-HT_{2A} receptors involves the activation of central AT₁ receptors in anaesthetised rats
- 97P **Schoemaker RG, van Haren P, Saxena PR & Kalkman EAJ** Early captopril treatment of rats prevents infarction-induced hypertrophy but not angiogenesis: effects on tissue perfusion and metabolism
- 98P **Monkhouse R, Ashton N, Gouldsborough I, Rossiter R & Williams BC** Effect of elevated glucose levels on the vascular reactivity of the *ex vivo* mesenteric arterial bed of spontaneously hypertensive and Wistar-Kyoto rat strains
- 99P **Hadoke PWF, Williams BC, Baird JD & Lindsay RM** Endothelial cell dysfunction in resistance arteries from diabetic and non-diabetic BioBred rats

- 100P **Li Q, Pfaffendorf M & van Zwieten PA** Diverse effects of angiotensin peptides in rabbit isolated renal artery
- 101P **Prior HM, Yates MS & Beech DJ** K⁺ channels determining the membrane potential of rabbit renal arcuate artery
- 102P **Narwal S, McHugh D, Beech DJ & Sivaprasadarao A** Cloning of a KATP channel from human aorta
- 103P **Michel AD, Chessell IP & Humphrey PPA** Inhibition of human P2X₇ receptor-mediated YO-PRO-1 influx by PPADS and KN62
- 104P **Grahames CBA, Chessell IP, Michel AD & Humphrey PPA** Characterisation of ATP- and LPS-induced IL-1b release from THP-1 cells
- 105P **Hermans E, Challiss RAJ & Nahorski SR** Modulation of the expression of the human type 1α metabotropic glutamate receptor in Chinese hamster ovary cells
- 106P **Davis RJ, Challiss RAJ & Nahorski SR** Enhanced receptor-mediated Ca signalling in L-fibroblasts overexpressing type-1 inositol 1,4,5-trisphosphate receptors
- 107P **Martin AK, Willars GB & Nahorski SR** Agonist-mediated sensitisation of the Ins(1,4,5)P₃ receptor in SH-SY5Y neuroblastoma cells
- 108P **Safrany ST & Shears SB** Bis-diphosphoinositol tetrakisphosphate (IP₈) levels are mediated by a cyclic AMP-dependent, protein kinase A-independent pathway in smooth muscle cells
- 109P **Siehler S, Seuwen K & Hoyer D** [¹²⁵I]Tyr³ octreotide labels human somatostatin sst₂ and sst₅ receptors expressed in CCL39 cells
- 110P **Schindler M, Carruthers AM, Feniuk W & Humphrey PPA** Somatostatin-induced increases in extracellular acidification rates, activation of MAP-kinase and inhibition of adenylyl cyclase in CHO-K1 cells expressing rat sst_{2a} and sst_{2b} receptors
- 111P **Feniuk W, Jarvie EM, Luo J, Humphrey JA & Humphrey PPA** Functional studies with the novel somatostatin (SRIF) sst₂ receptor blocking drug AcNH-4-NO₂-Phe-c[D-Cys-Tyr-D-Trp-Lys-Thr-Cys]-Tyr-NH₂ (Cyanamid 154806)
- 112P **Baxter GS, Coleman RA, Miah A, Murphy O & Carey JE** Regional distribution of 5-HT_{2C} receptor mRNA in human tissues using real time, quantitative sequence detection
- 113P **Carey JE, Miah A, Murphy OE, Coleman RA & Baxter GS** Quantification of mRNA transcript copy number using the ABI PRISM® sequence detection system
- 114P **Murphy OE, Carey JE, Miah A, Coleman RA & Baxter GS** Assessment of sample quality of total RNA for mRNA expression studies
- 115P **Moreels TG, De Man JG, De Winter BY, Herman AG & Pelckmans PA** Effect of interleukin-1β on cholinergic contractions of the rat gastric fundus
- 116P **De Man JG, De Winter BY, Moreels TG, Herman AG & Pelckmans PA** Effect of ascorbate on relaxations to S-nitrosothiols and on the nitrgenic neurotransmitter in the rat gastric fundus
- 117P **Williams SJ & Parsons ME** A comparison of the effects of nitric oxide synthase inhibitors on non-adrenergic, non-cholinergic (NABC) relaxations of the rat fundus and frog oesophagus
- 118P **Martin W, Mok JSL & Paisley K** Inhibition of nitrgenic neurotransmission by oxidant stress: effects of superoxide dismutase mimetics
- 119P **Martin SW, Chapple CR & Chess-Williams R** 5-HT₄-receptor-mediated responses in normal and hyperreflexic human bladder
- 120P **Agneter E, Singer EA, Feuerstein TJ & Sauermann W** Objections to classical models of pharmacological agonism
- 121P **Lee JJ & Parsons ME** Modulation of neurally-evoked cholinergic contractions of the guinea-pig ileum by endogenous adenosine
- 122P **Norel X, Walch L, Leconte B, Gascard JP & Brink C** Cholinesterase activity in human isolated airways
- 123P **Peeters FAM** Beyond the Schild plot: a non-linear model of the simultaneous evaluation of surmountable and insurmountable antagonism
- 124P **Smit J, van Tintelen EJJ, Palm IE, Brouwer F & Zaagsma J** Frequency-dependent and α₂-adrenoceptor-regulated facilitation of evoked noradrenaline overflow by endogenous ATP through prejunctional P_{2Y}-purinoceptors

POSTER COMMUNICATIONS

- 125P **Kidd EJ, Schindler M, Wyatt MA, Sellers LA & Humphrey PPA** Molecular cloning, expression and localisation of the rat somatostatin sst_{2(b)} receptor splice variant in the rat gastric mucosa
- 126P **Lauder H, Sellers LA, Feniuk W & Humphrey PPA** Somatostatin-induced regeneration of CHO-K1 cells expressing recombinant human sst₄ receptors is mediated by activation of MEK
- 127P **Brough S, Nasir S, Stewart BR, Jerman J & Coldwell MC** PPADS is a partial agonist on P_{2Y}₁ receptor-mediated changes in Ca²⁺ as determined in a fluorescence imaging plate reader (FLIPR)
- 128P **Hibell AD, Michel AD & Humphrey PPA** Further characterisation of P_{2X}₇ receptors on NTW8 cells, a mouse microglial cell line
- 129P **Howitt SG, Billington DC & Poyner DR** Effects of C-terminal alanine or serine substitutions on the binding of calcitonin gene-related peptide 8-37 to its receptors on rat L6 skeletal myocytes
- 130P **van der Sandt ICJ, de Boer AG, Danhof D & Breimer DD** Selectivity of the P-glycoprotein substrates Rhodamine-123 and doxorubicin in wild-type and MDR1 cDNA transfected LLC-PK1 cells
- 131P **Chopra B, Chazot PL, Mugnaini M & Stephenson FA** An investigation into the NMDA receptor subtype selectivity of two novel glycine site antagonists
- 132P **Lennon SM, Roberts PJ & Kelly E** Prolonged activation of mGlu₂ receptors enhances forskolin-stimulated cAMP accumulation
- 133P **Wade JA, Vaughan PFT & Peers C** Evidence that hypoxia enhances Ca²⁺ influx through nicotinic acetylcholine receptors in the human neuroblastoma SH-SY5Y
- 134P **Mesenhöller M & Matthews EK** Photosensitisation of pancreatic tumour cells: effects of mitochondrial benzodiazepine receptor (MBR) ligands

- 135P **Presland JP & Hill SJ** Action of 5-HT_{1B} receptor agonists at the human histamine H₁ receptor expressed in HEK-293 cells
- 136P **Watt S, Sudan HL, Cheetham SC & Mason R** Functional coupling of human 5-HT_{1A} receptors to human G-protein coupled inward rectifier K⁺ channels expressed in *Xenopus* oocytes
- 137P **Sudan HL, Fraser D, Kilpatrick IC, Needham PL & Heal DJ** Functional expression of human 5-HT_{1A} receptors by linkage to human G protein-coupled, inwardly-rectifying potassium channels type K_{ir} 3.0 (GIRK) in *Xenopus* oocytes
- 138P **Walker EM & Hill SJ** Investigation of protein kinase C isoforms in the potentiation of forskolin-stimulated cyclic AMP accumulation by histamine H₁ receptors expressed in CHO-K1 cells
- 139P **Walker EM, Bispham JR & Hill SJ** Potentiation of adenosine A_{2b} receptor-stimulated cyclic AMP accumulation by histamine H₁ receptors in HEK-293 cells
- 140P **Dickenson JM & Hill SJ** The human adenosine A₁ receptor activates the MAP kinase signalling pathway in transfected CHO-K1 cells
- 141P **Filipeanu CM, Henning RH, de Zeeuw D & Nelemans SA** Functional evidence for a role of intracellular angiotensin II in A7r5 cells
- 142P **Hall DA, Beresford IJM & Giles H** Characterisation of a [³⁵S]GTPγS binding assay for chemokine CXCL1 and 2 (IL-8 α and β) receptors expressed in CHO cells
- 143P **Saunders R, Nahorski SR & Challiss RAJ** Influence of extracellular Ca²⁺ on agonist-stimulated phosphoinositide hydrolysis in baby hamster kidney cells expressing mGluR1α
- 144P **Akam EC, Challiss RAJ & Nahorski SR** Methacholine-stimulated [³⁵S]-GTPγS binding and Ca²⁺ mobilisation in CHO-cells expressing M₁ and M₃ cholinergic receptors
- 145P **Sherriffs HJ, Nahorski SR & Challiss RAJ** Effects of lithium on lipid products of agonist-stimulated phospholipase C and D activities in CHO-m1 cells
- 146P **Main MJ, Marshall FH & Foord SM** Coupling of the human CGRP receptor via pertussis toxin sensitive G-proteins
- 147P **Wise A, Coote J, Rees ES, Marshall FH, Milligan G & Lee MG** Interactions of the A₁ adenosine receptor with multiple G_i-family G proteins: studies with A₁ adenosine receptor G_iα fusion proteins
- 148P **Bevan NJ, Scott S, Rhodes A, Marshall FH, Rees ES & Lee MG** Induced expression of the ORL1 receptor used to study signalling effects
- 149P **Charlton SJ & Boarder MR** Comparative study of transfected P2Y receptors: effect of the suramin analogue NF023, pertussis toxin and protein kinase C on the phospholipase C response
- 150P **Roberts JA, Charlton SJ & Boarder MR** Comparative study of transfected P2Y receptors: regulation of tyrosine kinases and mitogen-activated protein kinases by P2Y₁ and P2Y₂ receptors
- 151P **Anderson MA, Hill DR & Shahid M** Simplification of the G-protein (G_{oo}) GTPγS binding assay
- 152P **Tasker PN & Nixon GF** Altered expression of inositol 1,4,5-trisphosphate (InsP₃) receptor subtypes and Ca²⁺ stores organisation in developing rat vascular smooth muscle
- 153P **MacLennan SJ, Reynen PH, Kwan J & Bonhaus DW** Evidence for inverse agonism of SR141716A at human recombinant cannabinoid CB₁ and CB₂ receptors
- 154P **Pönicke K, Becker K, Heinroth-Hoffmann I & Brodde Q-E** Stimulation of G_{q/11}-coupled receptors is linked to hypertrophic response in rat neonatal ventricular cardiomyocytes
- 155P **Smalley KSM, Feniuk W & Humphrey PPA** Selective somatostatin (SRIF)-induced desensitisation of human recombinant sst₄ receptors expressed in CHO-K1 cells
- 156P **Ahmad M, Abdel-Wahab YHA, Pyne NJ, Flatt PR & Furman BL** Effects of type selective inhibitors on cAMP phosphodiesterase activity and insulin secretion in the clonal β cell line BRIN BD11
- 157P **Scott S, Rees ES, Marshall FH & Lee MG** Nociceptin activation of ERK1/ERK2 following expression of the ORL1 receptor in CHO cells
- 158P **Houtman R, Koster ASj & Nijkamp FP** Serum deprivation attenuates allergen-induced mast cell degranulation
- 159P **van Heuven-Nolsen D, van Velsen D, Folkerts G & Nijkamp FP** Bradykinin causes inhibition of methacholine-induced bronchoconstriction *in vivo* in mice
- 160P **Farahani M & Hall IP** Regulation of histamine H₁ receptor gene transcription in cultured human airway smooth muscle (HASM) cells
- 161P **Jourdan KB, Evans TW & Mitchell JA** Production of the isoprostane, 8-iso PGF₂α, by human pulmonary artery smooth muscle cells is cyclo-oxygenase-2-dependent
- 162P **van Houwelingen AH, van Heuven-Nolsen D, Kraneveld AD & Nijkamp FP** Increased tracheal vascular permeability due to a repeated challenge with DNS in DNFB-sensitized mice: a role for tachykinins
- 163P **Cirino G, Saunders M, Belvisi MG, Jourdan KB, Evans TW, Copponi A & Mitchell JA** Relative potencies of nonsteroidal anti-inflammatory drugs on purified cyclo-oxygenase-1 and -2
- 164P **Honey AC, Cambridge D & Beattie DT** The sodium channel inhibitor, BW4030W92: effects on neurogenically-mediated dural and extracranial plasma protein extravasation and c-fos expression in the trigeminal nucleus caudalis of the guinea-pig
- 165P **Ezeamuzie CI & Al-Hage M** Differential inhibitory effects of salmeterol and salbutamol on human eosinophil responses *in vitro*
- 166P **Charman A, Armstrong R & Horrobin D** The effect of fatty acids on neutrophil activation *in vitro*: reversibility by plasma
- 167P **Jones H, Wang Y, Douglas GJ, Paul W & Page CP** Poly-L-lysine induced neutrophil accumulation in rabbit skin and the inhibitory effect of heparin
- 168P **de Vries B, Meurs H, Roffel AF, Elzinga CRS, de Vries MML & Zaagsma J** Constitutive β₂-adrenoceptor activity in bovine tracheal smooth muscle induced by fenoterol treatment
- 169P **de Haas JRA, Terpstra JS, Roffel AF & Zaagsma J** Postjunctional responses to the prejunctional regulation of autonomic neurotransmitter release in the guinea-pig trachea

- 170P **Schuilting M, Zuidhof AB, Zaagsma J & Meurs H** Involvement of the NK₁-receptor in the development of allergen-induced airway hyperreactivity and airway inflammation in conscious, unrestrained guinea-pigs
- 171P **McMillan SJ, Escott KJ, Alvarez D, Hunt JRE, Reeves RL, Underwood SL, Foster ML, Webber SE & Sargent CA** A model of established airway inflammation in Brown Norway rats: effect of delayed treatment with fluticasone propionate
- 172P **Whelan CJ, Payne AN & Planquois J-M** Differential inhibition by tixocortol pivalate of the release of interleukin-5 rather than interferon- γ from human bronchoalveolar lavage cells in *in vitro*
- 173P **Parker LC, Balderson DJ, Owen F, Rothwell NJ & Luheshi GN** Interleukin-1 type-1 receptor expression in the rat hypothalamus
- 174P **Parris JRM, MacEwan DJ & Nixon** Tumour necrosis factor- α (TNF- α) enhances guinea-pig airways smooth muscle contractility via a calcium sensitising pathway
- 175P **Browning C, Beresford LJM, Hall DA & Giles H** Pharmacological differences between the binding of [¹²⁵I]IL8 and unlabelled IL8 to the human recombinant CXCR1 and CXCR2 receptors
- 176P **Mössner J, Hammerman R, Wessler I & Racké K** Spermine suppresses L-arginine transport activity in rat alveolar macrophages (AM ϕ) without directly inhibiting transport
- 177P **Hirschmann J, Hey C, Hammerman R, Folkerts JG, Nijkamp FP, Gleich GJ, Wessler I & Racké K** Inhibition of L-arginine transport in rat and guinea-pig alveolar macrophages (AM ϕ) by poly-cationic peptides
- 178P **Tomlinson A, Gardiner SM, Willis D, Ali J Kemp PA, Willoughby DA & Bennett T** Temporal and spatial expression of the inducible isoforms of cyclooxygenase, nitric oxide synthase and heme oxygenase in tissues from rats infused with LPS in the conscious state
- 179P **Nucci C, Piccirilli S, Lombardo M, Bagetta G, Nistico G & Cerulli L** Apoptosis induced by monocular deprivation in the lateral geniculate nucleus (LGN) of new-born rats is prevented by N^ω-nitro-L-arginine-methyl-ester (L-NAME)
- 180P **Bagetta G, Corasaniti MT, Paoletti AM, Berliocchi L, Costa N, Finazzi-Agro A & Nistico G** Evidence that indomethacin prevents apoptosis induced by human immunodeficiency virus type 1 (HIV-1) coat protein gp120 in the neocortex of the rat
- 181P **Swatton JE, Howlett DR & Spitzfaden C** The use of a scintillation proximity assay to determine the interactions between β -amyloid aggregation inhibitors and β -amyloid peptide
- 182P **Rhodes KF, Buckingham JC & Kennard C** Progesterone inhibits nicotine-evoked relaxation of the guinea-pig isolated basilar artery
- 183P **MacDonald E, Sallinen J, Viitamaa T, Haapalinna A, Scheinin M, Link RE & Kobilka BK** Effects of a brief swim stress on plasma corticosterone and brain monamine levels in mice with genetic manipulation of α_2C -adrenoceptor expression
- 184P **Ashmeade T & Routledge C** The role of 5-HT_{1b} receptors in the modulation of plasma ACTH levels
- 185P **Smith AJ & McKernan RM** Proliferative effects of CCK peptides and processing intermediates in rat GH₃ anterior pituitary cells
- 186P **Wilson RJ, Allen MJ, Giles H, Mills A & Thornton S** Oxytocin and vasopressin (V_{1a}) receptor antagonists in human myometrium at term: complexities in functional pharmacology
- 187P **Widdowson PS, Upton R, Ishii S & Williams G** The thiazolidinedione, MCC-555, reduces *ob* expression in mature adipocytes, but does not alter plasma leptin concentrations
- 188P **Widdowson PS, Buckingham RE, Wilson S & Williams G** The hyperphagia in moderate streptozotocin-induced diabetes is not accompanied by changes in hypothalamic NPY activity
- 189P **Javid FA & Naylor RJ** Characterisation of the 5-HT receptors mediating the contractile effect of 5-HT in the proximal region of the rat small intestine
- 190P **Tuladhar BR, Cooper N & Naylor RJ** Inhibition of peristalsis with PDE4 but not PDE3 inhibitors in the guinea-pig isolated ileum
- 191P **Howard TE, McRitchie B, Sawyer PJT & Wallis RM** Effect of darifenacin and other muscarinic antagonists on gastric acid secretion in conscious dogs
- 192P **De Winter BY, Boeckxstaens GE, De Man JG, Moreels TG, Herman AG & Pelckmans PA** Effect of cisapride and metoclopramide on postoperative ileus in rats
- 193P **Kumar A, Ashton N & McAulay JA** Protective effect of polyanions on aminoglycoside antibiotic-induced inhibition of MTT activity in a human renal cell line
- 194P **Walton SL, Alexander SPH, Boyd EA, Millns PJ, Washington CG & Kendall DA** Effects of a soybean oil-emulsified preparation of anandamide at cannabinoid receptors in isolated preparations from the guinea-pig
- 195P **Smith JK & Alexander SPH** The effects of reduced pH on A_{2B} adenosine receptor-evoked cyclic AMP generation in the guinea-pig cerebral cortex
- 196P **Thompson SA, Smith MZ, Wingrove PB, Whiting PJ & Wafford KA** A channel mutant of GABA_A receptors reveals changes in allosteric modulation
- 197P **Sooksawat T & Simmonds MA** Effects of increased membrane cholesterol on GABA_A currents in acutely dissociated hippocampal neurones
- 198P **Dunne EL, Moss SJ & Smart TG** Direct modulation of murine recombinant GABA_A receptors by protein tyrosine kinase inhibitors
- 199P **Alder L, Smith AJ, Priestley T, Silk J, Adkins C, McKernan RM & Atack JR** Use of a 96 well format ³⁶Cl flux assay to measure GABA_A ion channel function in stably expressed recombinant receptors: constitutive channel opening in the absence of agonist revealed
- 200P **Sokal DM, Mason R, Parker KG & Parker TL** Simultaneous multi-channel recordings reveal synchronous epileptiform-like bursting in cultured rat hippocampal neurones induced by bicuculline
- 201P **Abduljawad KAJ, Langley RW, Bradshaw CM & Szabadi E** Effects of bromocriptine and haloperidol on prepulse inhibition of the eye-blink startle response and N1/P2 auditory evoked potential in man
- 202P **Schlepper O, Goetgheluck Q & Simmonds MA** Modulation of [³H]-flunitrazepam binding by neurosteroids and cholesterol
- 203P **Messmer K & Reynolds GP** Peripheral type benzodiazepine binding sites in Huntington's disease

- 204P Aparicio-Legarza MI, Davis B & Reynolds GP NMDA receptors in the striatum in schizophrenia
- 205P Smith SL, Stroemer RP, Martin KF, Heal DJ & Rothwell NJ Characterisation of aspartate and glutamate involvement in focal ischaemia and spreading depression: an *in vivo* microdialysis study in freely-moving rats
- 206P Lam AGM, Lodge D, Monn JA, Schoepp DD & McCulloch J The effects of the selective group II metabotropic glutamate receptor agonist LY354740 on local cerebral glucose metabolism in the rat brain
- 207P Patel DR & Croucher MJ A role for presynaptic group I metabotropic glutamate receptors in the control of glutamate release in the rat striatum: an *in vivo* microdialysis study
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- 209P Wyatt I, Gyatt AJ, Duffell S & Lock EA Glutathione: how important is it in L-2-chlorpropionic acid neurotoxicity to the cerebellar granule cell-structure activity study?
- 210P Wortley KE, Hughes ZA, Heal DJ & Stanford SC Effects of RX821002 on changes in extracellular noradrenaline concentration in rat frontal cortex induced by sibutramine or *d*-amphetamine
- 211P Zetterström TSC, Pei Q, Ainsworth K & Grahame-Smith DG Effects of antidepressant treatments on BDNF gene expression in rat brain
- 212P Trezise DJ, John VH, Nobbs M & Xie X Voltage- and use-dependent inhibition of voltage-gated Na⁺ channels in rat sensory neurones by the novel antihypersensitivity agent 4030W92
- 213P Evans KS, Kozłowski CM & Bountra C The novel sodium channel blocker 4030W92 inhibits carrageenan-induced cutaneous hypersensitivity in the anaesthetised rat
- 214P Kozłowski CM, Smith EJ, Grundy D & Bountra C The sodium channel blocker 4030W92 inhibits spinal c-fos expression in response to somatic and visceral noxious stimulation in the rat
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- 216P Green AR, Anderson SMP, De Souza RJ & Cross AJ Inhibition by clomethiazole of Ca²⁺ flux in neuroblastoma SHSY5Y and IMR-32 cells
- 217P Nicol B, Rowbotham DJ, Smart D, McKnight AD & Lambert DG Nociceptin inhibits glutamate release from rat cerebellar slices
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- 219P Joyce PI, Atcheson R, Rowbotham DJ & Lambert DG Local anaesthetic agents inhibit [³H]noradrenaline uptake into SH-SY5Y cells
- 220P Davis AJ, Urban L & Perkins MN CGRP induces mechanical hyperalgesia in rats which is reduced by IL-1ra, kinin B1 and B2 receptor antagonists but not a selective NK1 receptor antagonist
- 221P Gentry C, Patel S, Panesar M, Campbell E & Urban L The selective NK-1 receptor antagonist SDZ NKT 343 inhibits both inflammatory and neuropathic hyperalgesia in the guinea pig
- 222P Gibb SL, Bowmer CJ & Pearson HA Effects of t-butyl hydroperoxide on ion channels in cultured rat cerebellar granule neurones
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- 229P Stowe RL & Barnes NM Cellular distribution of 5-HT₇ receptor mRNA in rat brain
- 230P Stowe RL & Barnes NM Further characterisation of [³H]5-CT binding in rat hypothalamus
- 231P Zetterström TSC, Pei Q, Madhav TR & Grahame-Smith DG Manipulation of brain 5-HT levels affects gene expression for BDNF in rat brain
- 232P Gartside SE, Umbers V, Clifford EM & Sharp T Effect of paroxetine in combination with the β-blockers/5-HT_{1A} antagonists, (±)-pindolol, (-)-teratolol and (-)-penbutolol, on extracellular 5-HT in the rat cortex
- 233P Brown AM, Avenell K, Young TJ, Ho M, Porter RA, Vimal M & Middlemiss DN BRL 54443, a potent agonist with selectivity for human cloned 5-HT_{1E} and 5-HT_{1F} receptors
- 234P Watson J, Jerman J, Gager T & Coldwell MC Use of FLIPR technology to investigate an endogenously expressed 5-HT receptor in SKNBE(2) cells
- 235P Hoetzl A, Singer EA & Agneter E Modulation of secretoneurin-induced 5-HT efflux from the hippocampus of behaving rats
- 236P Theodorou AE, Maurya M, Nagi S, Rosser DJ & Horton RW Transient up-regulation of corticosteroid receptors following long-term administration of desmethylimipramine
- 237P Lightowler S, Stean T, Upton N, Vimal M, Kennett GA, Porter R & Brown AM Effect of BRL 54443 (3-(-1-methylpiperidin-4-yl)-1H-indol-5-ol), a 5-HT_{1E/1F} receptor agonist, on general behaviour and maximal electroshock seizure threshold in the rat
- 238P Trail B, Bright F, Lightowler SL & Kennett GA Effects of selective 5-HT_{1B} receptor ligands on indices of appetite control in the rat

- 239P **Al-Ruwaitea ASA, Chiang T-J, Al-Zahrani SSA, Ho M-Y, Bradshaw CM & Szabadi E** Effect of destruction of the ascending 5-hydroxytryptaminergic pathways on switching between concurrent reinforcement schedules
- 240P **Costall B, Korteas R & Smythe JW** Carbachol infusions into the median raphe nucleus elevate hippocampal theta frequencies in the rat
- 241P **Murray F, Garrett L, Hutson PH & Bristow LJ** The selective 5-HT_{2A} receptor antagonist MDL 100,907 attenuates the behavioural and neurochemical effects of PCP in rodents
- 242P **Costall B & Naylor RJ** Inhibitory and disinhibitory profiles of the interaction between m-chlorophenylpiperazine and m-chlorophenylbiguanide in the mouse light dark test
- 243P **Costall B & Naylor RJ** Characterisation of the 5-HT receptor mediating the behavioural inhibitory effects of m-chlorophenylbiguanide in the mouse light dark test
- 244P **McQuade R, Tyrrell-Price J & Stanford SC** The effect of microdialysis probe implantation on behaviour of rats in the light/dark box
- 245P **Hogg S** Antagonism of the anti-immobility effects of 8-OH-DPAT in the mouse forced swim test by (±)-pindolol
- 246P **Jones DNC, Boyd DE, Cilia J, White A & Hagan JJ** Differential reinforcement of low response rate (DRL-72s) schedule: effects of antidepressants
- 247P **Cadogan AK, Fletcher C, de Bank P, Marsden CA & Kendall DA** Differences in the *in vivo* and *in vitro* effects of the endogenous sleep-inducing agent oleamide on 5-HT₂ receptor function
- 248P **Campos AM, Grayson B & Kelly ME** A comparison between plasma corticosterone concentrations following social competition and restraint in the rat
- 249P **Corsi M, Oliosi B, van Amsterdam FThM, Antolini M, Melotto S, Gerrard P, Maraia G, Reggiani A, Ursini A, Donait D, Gaviraghi G, Ratti E & Trist DG** Pharmacological characterization of GV191869X: a novel, potent and selective CCK-B receptor antagonist
- 250P **Michel AD & Humphrey PPA** Ionic effects of P2X₇ receptor-mediated YO-PRO-1 influx
- 251P **Treseder SA, Smith L, Jackson M, Jenner P & Marsden CD** The actions of L-DOPA and dopamine agonists following dopamine depletion in MPTP-treated common marmosets
- 252P **Maratos E, Smith L, Jackson MJ, Pearce RKB, Jenner P & Marsden CD** Effects of repeated treatment with combinations of L-dopa and ropinirole on dyskinesia induction in MPTP-treated common marmosets
- 253P **Smith LA, Cheetham S, Maratos, Heal DJ, Jenner P & Marsden CD** BTS 74 398 reverses motor deficits in MPTP-treated common marmosets
- 254P **Skill MJ, Needham PL, Kilpatrick IC & Heal DJ** Evidence that food-induced conditioned place-preference cannot be deployed as a test in rats to discriminate between typical and atypical antipsychotic drugs
- 255P **Javid FA & Naylor RJ** Variables of movement amplitude and frequency as emetic stimuli in *Suncus murinus*
- 256P **Jackson HC, Cheetham SC, Gosden J, Hutchins, Kerrigan F, Needham AM, Pleasance IM, Sargent BJ & Heal DJ** Behavioural effects of the monoamine reuptake inhibitor, BTS 74 398, in rats and mice
- 257P **Shirley AK, Murphy D, Costall B & Smythe JW** Acute thyroxine administration enhances cognitive abilities in the rat
- 258P **Korteas R, Costall B & Smythe JW** Hippocampal theta activity is regulated by corticotropin-releasing hormone in the rat
- 259P **Colado M, Granados R, O'Shea E, Esteban B & Green AR** Further evidence that NMDA antagonists protect against MDMA ('ecstasy')-induced neurodegeneration because of hypothermia
- 260P **Hemmati AA, Koochak MH, Namazi F & Hicks R** Ipratropium bromide may prevent salbutamol-induced down-regulation of β_2 receptors in guinea-pig trachea
- 261P **Buckley CH, Hadoke PWF & O'Brien C** β -blocker-mediated relaxation in isolated porcine ocular arteries
- 262P **VanMarle J, van Weeren Kramer J, Lee SY van Wilgenburgh H & Leeuwijn RS** Ro05-4864, a peripherally acting benzodiazepine, stabilizes muscle membrane architecture
- 263P **Wallace P, McFadzean I, Wayman CP & Gibson A** Thapsigargin-induced contractions of the mouse anococcygeus: calcium dependence and pharmacology
- 264P **Van Eylen F, Lebeau C, Albuquerque J & Herchuelz A** Contribution of Na/Ca exchange to Ca²⁺ outflow and entry in the rat pancreatic β cell: studies with antisense oligonucleotides
- 265P **Delany C, Katugampola S & Bushfield M** Comparison of the potencies of opioid agonists at the human recombinant and mouse delta opioid receptors
- 266P **Katugampola SD, McHarg AD, MacIntyre P Napier C & Bushfield M** Characterisation of [³H]SNC-80 and [³H]naltrindole binding to the human delta opioid receptor expressed in Chinese hamster ovary cells
- 267P **Cardelús I, Puig J, Bou J, Jáuregi J, Fernandez AG & Palacios** Xerostomia and mydriasis: two possible muscarinic peripheral side effects associated with descarboethoxyloratidine, the main metabolite of loratadine
- 268P **Watson N, Daniels D, Ford APDW, Eglén RM & Hegde SS** Comparative pharmacology of human muscarinic m3 and m5 cholinergic receptors expressed in Chinese hamster ovary (CHO) cells
- 269P **John TA, Wright T & Hollingsworth M** Desensitization by two P2X receptor agonists in the guinea-pig vas deferens
- 270P **Ho SL & Docherty JR** Subtypes of prejunctional α_2 -adrenoceptor in rat atrium and cerebral cortex
- 271P **Smit J, Roffel AF & Zaagsma J** Enhanced role for prejunctional NPY receptors in the control of exercise-induced noradrenaline overflow in the vasculature of spontaneously hypertensive rats
- 272P **Fonseca M & Gibson A** No evidence for a nerve-derived hyperpolarising factor in the mouse anococcygeus
- 273P **Shepherd C, Hawcock AB & Trevethick MA** Characterisation of tachykinin NK₁ receptors in the rabbit isolated iris with SB223412

- 274P Nie M, Haynes JM & Selbie LA Neuropeptide Y (NPY) receptor expression in the epididymis of the guinea-pig
- 275P Mercer P, Metcalfe M, Davey DM, Bushfield M & Newgreen DT Characterisation of the contractile and neuromodulatory actions of bradykinin on rat bladder
- 276P Hill PB, Hinton JM, Plane F & Garland CJ Investigation of the 5-HT receptors mediating contraction in the rabbit isolated renal artery
- 277P Hinton JM, Jeremy JY & Garland CJ Evidence for 5-HT_{1B/1D} receptors in primary cultures of rabbit renal vascular smooth muscle cells
- 278P Bailey SR & Elliott J Effects of inhibition of uptake and metabolism on pressor response to 5-hydroxytryptamine of the isolated perfused equine digit
- 279P Gardner NM & Broadley KJ Role of endogenous adenosine and A₃ receptor stimulation in hypoxia-induced myocardial stunning and contracture
- 280P Kerr S, McIntyre M, Reid JL, Dominiczak AF & Hamilton CA Generation of superoxide in rings of abdominal aortae from Wistar Kyoto and stroke-prone spontaneously hypertensive rats
- 281P Doggrell SA & Henderson CJ The offset of the cardiac actions of β -adrenoceptor antagonists is related to their lipophilicity
- 282P Bowes J & Thiemermann C Comparison of the effects of inhibitors of poly(ADP-ribose) synthetase and radical scavengers in a rat model of hepatic ischaemia and reperfusion
- 283P Laight DW, Kengatharan KM, Carrier MJ & Ånggård EE Effects of dietary antioxidants on organic nitrate tolerance *in vivo* in obese/lean Zucker rats
- 284P Laight DW, Kengatharan KM, Carrier MJ & Ånggård EE Effects of dietary antioxidants on organic nitrate tolerance *in vitro* in obese/lean Zucker rats
- 285P Smith JA, Yaktubay N, Morton MJ, Bowmer CJ, Sivaprasadarao A & Yates MS The effect of dietary sodium on renal adenosine A₁ receptors in the rat
- 286P Simonet S, Bonhomme E, Descombes J-J, Lacoste J-M, Cordi A & Verbeuren TJ Temperature sensitivity of contractions to α -adrenoceptor agonists in canine saphenous veins *in vitro*
- 287P Heinemann A, Horina G, Stauber RE & Peskar BA Different receptor mediation of direct vasoconstriction and potentiation of adrenoceptor-mediated pressor responses by vasopressin in the rat isolated mesentery
- 288P Work LM, McPhaden AR, Pyne S, Wainwright CL & Wadsworth RM A comparison of the response to balloon injury of the porcine coronary artery performed *in vivo* and *in vitro*
- 289P Sharif I, Kane KA & Wainwright CL Exogenous endothelin preconditions the heart against arrhythmogenesis induced by myocardial ischaemia
- 290P Davenport AP, Plumpton C, Ferro CJ Webb DJ & Horton J Systemic infusion of an endothelin receptor antagonist increases plasma ET-3 in humans
- 291P Lal H, Williams KI & Woodward B Comparative study of effects of ET-1, big ET-1 and SX6C in rat isolated pulmonary arteries and veins
- 292P Douthwaite JA, Johnson TS, Thomas GL, El Nahas AM & Haylor J Endothelin-1 mRNA and renal fibrosis following subtotal (5/6) nephrectomy in the rat
- 293P Baan Jr J, Chang PC, Vermeij P, Pfaffendorf M & van Zwieten PA Effects of angiotensin II and losartan on forearm blood flow in patients with essential hypertension
- 294P Martorana PA, Keil M, Goebel B, Ruetten H, Koehl D & Schoelkens BA Angiotensin-converting enzyme inhibition with ramiprilat prevents endothelial dysfunction induced by ischaemia/reperfusion of a coronary artery in the dog
- 295P Matthews KL, Cunningham JR & Neal MJ Light-evoked release of nitric oxide (NO) from the rabbit retina
- 296P Hansen K & Nedergaard OA Endothelium-dependent relaxation of rabbit aorta evoked by acetylcholine
- 297P Guibert C, Loirand G, Vigne P, Savineau JP & Pacaud P Endothelium-independent ATP-induced relaxation is mediated by the A_{2A}-adenosine receptor in rat portal vein
- 298P Randall MD & Kendall DA Evidence for the involvement of potassium channels in anandamide-induced and EDHF-mediated vasorelaxations in rat isolated mesentery
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- 302P Rowe DTD, Garland CJ & Plane F Different mechanisms mediate relaxation to endothelium-derived NO and the NO donor SIN-1 in the rabbit isolated femoral artery
- 303P O'Byrne S, Shirodaria C, Blake D & Benjamin N Generation of nitric oxide by xanthine oxidase
- 304P Anderson IK, Soden PE, Barnes JC & Rupniak HTR β -amyloid induces cyclooxygenase-2 and inducible nitric oxide synthase in microglial cells: inhibition of PGE₂ and NO production by selective COX-2 and iNOS inhibitors
- 305P Barker JE & Stewart AG Differing effects of nitric oxide compared with peroxynitrite on mast cell degranulation *in vitro*
- 306P Hadoke PWF, Williams BC, Baird JD & Lindsay RM Endothelium-dependent relaxation in carotid arteries from diabetic and non-diabetic BioBred rats
- 307P Edmunds NJ & Woodward B Evidence for a role of prostanoids and sphingosine in tumour necrosis factor- α mediated coronary vasoconstriction in the isolated perfused rat heart
- 308P Gardiner SM, Kemp PA, March JE, Woolley J & Bennett T Effects of sheep polyclonal antibodies to human TNF- α and IL1 β on cardiovascular responses to the cytokines in conscious rats

- 309P **Gardiner SM, Kemp PA, March JE, Woolley J & Bennett T** Effect of sheep antibodies to human TNF- α and IL-1 β on cardiovascular responses to lipopolysaccharide (LPS) in conscious rats
- 310P **Kromer BM & Tippins JR** A comparison of the vasoconstrictor effect of 8-epi prostaglandin in rat artery and vein
- 311P **Leach M, Gray G & Thiemermann C** Effects of SC-58635, a selective inhibitor of cyclooxygenase 2 on haemodynamics and organ function of rats with endotoxaemia
- 312P **Amin Z, Clayton JK, Marshall K & Senior J** The effects of prostaglandin E₂ and EP₂ receptor mimetics on the human isolated umbilical artery
- 313P **Amin Z, Clayton JK, Marshall K & Senior J** Characterisation of a prostaglandin DP-receptor population on the human isolated umbilical artery
- 314P **Yeung CK, Howland SL, McCurrie JR & Wood D** Rubidium affects responses to potassium channel modulators in rat portal vein
- 315P **Van Hove CE, Matthys KE, Herman AG & Bult H** Enhanced role of the hyperpolarizing pathway in endothelium-dependent relaxations in rabbit carotid arteries with a neointima
- 316P **Ruetten H, Martorana PA, Scholz W, Albus U & Schoelkens BA** Administration of the novel Na⁺/H⁺ exchange inhibitor Hoe 642 prior to reperfusion reduces infarct size in the pig
- 317P **Spitzbarth E, Petitcolin M-A, Tschirhart EJ & Capdeville-Atkinson C** Impact of inactivation of G-proteins on intracellular calcium sensitivity of tension in the rat tail artery
- 318P **Huang WX, Turner MA, Kingsbury MP & Sheridan DJ** Evidence of an increase in vasodilator efficacy in isolated thoracic aorta from guinea-pigs after chronic ascending coarctation banding
- 319P **Mamas MA & Terrar DA** Differential sensitivity to cannabidiol of the two components of delayed rectifier potassium current in guinea-pig isolated ventricular myocytes
- 320P **Kyselovic J, Salomone S, Wibo M & Godfraind T** Effect of nifedipine on salt-dependent cardiac hypertrophy in stroke-prone spontaneously hypertensive rats
- 321P **Cullen JP, Bell D & McDermott BJ** Stimulation of the AT receptor causes hypertrophy in adult rat ventricular cardiac myocytes
- 322P **Needham E, Mamas MA & Terrar DA** Actions of cannabidiol on contraction of guinea-pig isolated ventricular myocytes
- 323P **Nelemans SA, Filipceanu CM & de Zeeuw D** Modulatory effect of D⁹-tetrahydrocannabinol on [Ca²⁺]_i in DDT₁MF-2 cells
- 324P **Greenwood IL & Large WA** Inhibition of Ca²⁺-activated Cl⁻-currents in smooth muscle cells by compounds structurally similar to niflumic acid
- 325P **Iino S, Cui Y, Galione A & Terrar DA** Influence of stimulation rate on the effect of cADP-ribose and its antagonist, 8-amino-cADP-ribose, on contractions of guinea-pig ventricular myocytes
- 326P **Cui Y, Iino S, Galione A & Terrar DA** Possible requirement of calmodulin for actions of cADP-ribose on contraction of guinea-pig isolated ventricular myocytes
- 327P **Rigg L & Terrar DA** Influence of ryanodine on the positive chronotropic response to β -adrenergic stimulation with isoprenaline in guinea-pig sino-atrial node
- 328P **Rigg L & Terrar DA** Possible influence of cytosolic calcium on rate of beating of sino-atrial node cells isolated from guinea-pig heart
- 329P **Pfaffendorf M, van der Lee R & van Zwieten PA** Effect of the predominantly T-type calcium channel blocker mibefradil on spontaneous and stimulated myogenic activity in the rat isolated portal vein
- 330P **Randall MD, Tarpey SB & Gardiner SM** Upregulation of cardiac preconditioning in isolated hearts from endotoxaemic rats
- 331P **Tarpey SB & Randall MD** Vascular activities of methoxamine and noradrenaline in isolated perfused mesenteric arterial beds from endotoxaemic rats
- 332P **Tarpey SB, Bennett T & Gardiner SM** Differential changes in cardiovascular responses to methoxamine and noradrenaline during endotoxaemia in conscious rats
- 333P **Mocanu MM, Baxter GF & Yellon DM** Anti-ischaemic action of transforming growth factor β -1 in the rat isolated heart is abolished by the p38 MAPK inhibitor SB203580
- 334P **Danser AHJ, de Vries R & Saxena PR** Bradykinin-induced vasorelaxation in the rat isolated perfused heart: importance of preformed pools of NO-containing factors
- 335P **Kramers C, Siero H, Pickkers P, Russel FGM, Smits P** The charybdotoxin-sensitive Ca-dependent K-channel is involved in post-ischaemic vasodilation in rat mesenteric artery
- 336P **Masereeuw R, Moons MM, Miller DS & Russel FGM** Active secretion and intracellular disposition of Lucifer Yellow in renal proximal tubules
- 337P **Petitcolin M-A, Bueb J-L, Spitzbarth E, Capdeville-Atkinson C & Tschirhart EJ** Characterisation of the G-proteins in the rat tail artery smooth muscle
- 338P **Hladky SB, Gewert C & Barrand MA** Measurement of intracellular pH using BCECF in cells containing organic anion transporters
- 339P **Lippi A, Criscuoli M, Santicoli P & Maggi CA** Pharmacokinetics of the bicyclic peptide tachykinin NK₂ receptor antagonist MEN 11420 in rats and guinea-pigs
- 340P **Javid FA & Naylor RJ** Adaptation to movement and gender differences in the development of motion sickness in *Suncus murinus*

DEMONSTRATIONS

- 341P **Dewhurst DG, Oswald S, Todd MH & Williams AD** A computer-based interactive tutorial to introduce the principals of the drug discovery process
- 342P **Hughes IE, Todd M, Major J & Wilson C** The Zeneca teaching day: teaching about drug discovery and supporting the practice of generic skills
- 343P **Koster ASj, de Mol NJ, van Heuven-Nolsen D, Nijkamp FP, van den Brink G & Perquin J** Introduction to pharmacogenesis: teaching the principles of interaction of medicines with molecules, organs and the human body with the help of CD-ROM technology

**ABSTRACTS FROM A SYMPOSIUM ON
'GENOMICS AND PHARMACOLOGY: A PARTNERSHIP FOR THE 21st CENTURY'**

9 December 1997

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| 344P Venter JC Genomics and pharmacology | 348P Grosveld F Globin gene expression and drug discovery |
| 345P Friedman JM The discovery of leptin and its potential impact on the treatment of diabetes and obesity | 349P Holden DG Discovering new targets for anti-bacterial agents by identification of genes essential for pathogenicity |
| 346P Mandel J-L Neurodegenerative diseases and triplet repeat expansions: mechanisms and approaches towards pharmacological treatment | 350P Wodek SJ Roles of structural biology in drug development and design |
| 347P Oliver SG Comparative genomics and the identification of human disease genes | |

**ABSTRACTS FROM A SYMPOSIUM ON
'RECENT ADVANCES IN THE NEUROPHARMACOLOGY
OF ANXIETY AND PANIC'**

10 December 1997

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| 351P Handley SL Neurobiology of anxiety and panic: the animal approach | 354P Westenberg HGM Treatment of anxiety and panic |
| 352P Deakin JFW, Anderson IM & Strickland P Neurobiology of anxiety and panic: human studies | 355P Olivier B Treatment of anxiety and panic: future directions |
| 353P Kennett GA Novel neuropharmacological approaches to drug development | |

**ABSTRACTS FROM A SYMPOSIUM ON
'MOLECULAR MODELLING OF DRUG METABOLIZING ENZYMES'**

11 December 1997

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| 356P Lewis D Molecular modelling of P450 substrate interactions | 359P Edwards RJ Structural features of P450 and its antigenic determinants revealed by designer antibody studies |
| 357P Ellis SW Site-directed mutagenesis of putative active-site residues of CYP2D6 | 360P Vermeulen NPE, van der Aar EM, de Groot MJ & Commandeur JNM Structure and QSARs of selected glutathione S-transferases |
| 358P Roberts GCK, Modi S, Sutcliffe MJ, Lian L-Y, Primrose WU & Wolf CR The use of NMR methods to study substrate binding to cytochromes P450 | |

**ABSTRACT FROM A WORKSHOP ON
'THE M.Res. EXPERIENCE'**

11 December 1997

- 361P Brothie JM, Nash JE & Balment RJ** Master of Research (M.Res) in biological sciences: the Manchester experience

ABSTRACTS FROM A SYMPOSIUM ON 'G-PROTEIN RECEPTORS: EVENTS AT THE CELL MEMBRANE'

12 December 1997

- 362P **Nargund RP** Designing ligands for G protein-coupled receptors: growth hormone secretagogues - a case history
- 363P **Wilson S, Bergsma DJ, Livi GP & Stadel JM** 'Orphan' G protein-coupled receptors: the next generation of drug targets
- 364P **Godart M, Mollereau C, Govaerts M, Detheux, Fanderhaegen P, Libert F, Ledent C, Costentin J, Meunier JC, Vassart & Parmentier M** Orphan receptors: how many unknown messengers?
- 365P **Foord SM, McLaatchie LM, Fraser NJ, Wise A, Brown J, Main M, Thompson N, Solari R & Lee MG** The CGRP receptor requires a single transmembrane protein for functional expression
- 366P **Milligan G** GPCR-G protein fusions: a novel strategy to examine signal transduction through specific receptor-G protein tandems
- 367P **Price-Jones MJ** Screening assays for G protein-coupled events

ABSTRACTS FROM A WORKSHOP ON 'TEACHING PHARMACOLOGY IN THE 21st CENTURY'

12 December 1997

- 368P **Hughes IE** Teaching pharmacology in the 21st century: what will the customers be like?
- 369P **van Zwieten PA** Who will be doing the teaching?
- 370P **Hollingsworth M** Teaching pharmacology in the 21st century: what will we be teaching?
- 371P **Smits JFM** How will we be teaching pharmacology?
- 372P **Van Bortel LM & Bogaert MG** Clinical pharmacology teaching in Belgium and the Netherlands
- 373P **Walley T** Clinical pharmacology - a UK perspective
- 374P **Shepperson NB** Postgraduate education - an employer's eye view
- 375P **Girdlestone D** Training pharmacologists for the 21st century: what is the role of the learned societies?
- 376P **Markham A** Teaching pharmacology in the 21st century: an overview