

ORAL COMMUNICATIONS

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

- 1P **Hawkins LM, Chazot PL & Stephenson FA** Characterisation of the binding of [³H]Ro 25-6981 to recombinant N-methyl-D-aspartate receptors
- 2P **Hudson AL, Price R, Tyacke RJ, Lallies MD, Parker CA & Nutt DJ** Harmane, norharmane and tetrahydro β -carboline have high affinity for rat imidazoline binding sites
- 3P **King P, Widdowson PS, Doods H & Williams G** Regulation of neuropeptide Y release from hypothalamic slices by Y1, Y2 and Y5 NPY receptor ligands
- 4P **Cai X, Tadayyon M, Buckingham R, Wilson S, Arch JRS, Widdowson PS, Wilding JPH & Williams G** Changes in orexin mRNA during altered energy balance: influences of leptin and insulin
- 5P **Elliott JM, Phipps SL, Pei Q, Zetterstrom T & Grahame-Smith DG** Electroconvulsive shock induced localised and persistent increases in BDNF protein in rat brain
- 6P **Rose S, Aziz-Cooke F & Jenner P** Depletion of striatal glutathione by L-buthionine-[S,R]-sulphoxamine does not alter basal or K⁺-stimulated dopamine efflux in the rat striatum: an *in vivo* microdialysis study
- 7P **Harney SC, Frenguelli BG & Lambert JJ** Neurosteroid modulation of GABA_A receptor-mediated miniature inhibitory postsynaptic currents in the rat hippocampus
- 8P **Dolan S & Nolan AM** Acute mechanical nociceptive processing in sheep is mediated by activation of N-methyl D-aspartate receptors, nitric oxide synthase and cyclooxygenase-2 enzymes
- 9P **Tofighy A & Lacey MG** Atypical pharmacology of the excitation by dopamine of rat subthalamic nucleus neurones *in vitro*
- 10P **Ferger B, Rose S, Jenner A, Halliwell B & Jenner P** 6-Hydroxydopamine-induced increase in free radical production in rat striatum is accompanied by oxidative DNA damage: an *in vivo* microdialysis study
- 11P **Patel MK, Khakh BS & Henderson G** Characterisation of P2X receptors in rat trigeminal mesencephalic nucleus
- 12P **Bennett GC, Ford APDW & Boarder MR** Characterisation of P2 receptors on cerebral cortical cell cultures from embryonic rats
- 13P **Richards JG, Messer J, Bleuel Z, Malherbe P, Klingelschmidt A, Faull RLM & Mutel V** Distribution and abundance of binding sites for a potent, selective AMPA receptor antagonist [³H]Ro 48-8587 in human brain
- 14P **Thomas DR, Brown AM, Taylor SG & Middlemiss DN** 5-CT stimulation of adenylyl cyclase activity in guinea-pig hippocampus: evidence for involvement of 5-HT₇ and 5-HT_{1A} receptors
- 15P **Steele JA & Martin IL** Interaction of oestrone and 17 β -oestradiol with the 5-HT₃ receptor
- 16P **Franklin JL & Strange PG** Agonist-induced up-regulation of an epitope-tagged human D_{2(short)} dopamine receptor subunits
- 17P **Page DT, O'Connor N, Rogers M, Martin F & O'Boyle KM** Evidence for interactions between D₁ and D_{2a} dopamine receptors co-expressed in BHK cells
- 18P **McMahon RA, Hurley PT, Egan TM, Nelson A, Rogers M & Martin F** Genomic structure of the human P2X₂ receptor: alternative splicing generates multiple transcripts
- 19P **Chessell IP, Michel AD & Humphrey PPA** Determinants of human P2X₇ large pore formation
- 20P **Hibell AD, Simon J, Michel AD, Chessell IP & Humphrey PPA** Species differences between P2X₇ receptors
- 21P **Kennedy C, Herold CL, Qi A, Nicholas RA & Harden TK** Differing pharmacological properties of the human and rat P3Y₄ receptors
- 22P **Kennedy C, Qi A, Nicholas RA & Harden TK** Differential coupling of the human P2Y₁₁ receptor to phospholipase C and adenylyl cyclase
- 23P **Zhong Y, Dunn PM & Burnstock G** P2X receptors on mouse and guinea-pig pelvic ganglion neurons exhibit different Zn²⁺ and pH sensitivities
- 24P **Brown SG, Wildman SS, King BF & Burnstock G** Diadenosine polyphosphates as pharmacological tools to identify P2X_{1,2,3,4} subunits
- 25P **Siehler SS, Zupanc GKH, Seuwen K & Hoyer D** Characterisation of the cloned fish somatostatin receptor sst₃, a member of the SRIF₁-receptor family: atypical pharmacological features
- 26P **Siehler SS, Seuwen K & Hoyer D** System- and agonist-dependent ligand-receptor interactions at human somatostatin hsst₅ receptors: radioligand and [³⁵S]GTP γ S binding and adenylyl cyclase inhibition studies
- 27P **Rajab P, Constantin-Teodosiu D, Mayer RJ, Gardiner SM, Bennett T & Greenhaff PL** Increase in proteasome activity 6 h after a single bolus administration of the β_2 -adrenoceptor agonist clenbuterol in conscious rats
- 28P **Culliford SJ & Kozlowski RZ** Effects of pyrethroids on volume-sensitive chloride channels
- 29P **Ohnishi M, Marshall HW, Kirkman E & Little RA** Morphine attenuates the response to cardio-pulmonary receptor stimulation in the anaesthetized rat
- 30P **Kirkman E, Ohnishi M & Watkins P** Effects of morphine on the response to primary thoracic blast injury in the anaesthetized rat
- 31P **Jeremy JY, Lloyd CT, Mehta D, Johnson JL, George SJ, Birkett S, Gadsdon P & Angelini GD** Pretreatment of porcine vein grafts with thapsigargin reduces neointimal thickness
- 32P **Bischoff A & Michel MC** Nifedipine attenuates neuropeptide effects *in vivo*

- 33P Lavelle A, Honner V & Docherty J Investigation of the effects of MDMA at α -adrenoceptors in the rat
- 34P Chillon JM, Régrigny O, Lartaud-Idjouadiene I, Delagrangé P, Scalbert E & Atkinson J Melatonin constricts rat cerebral arterioles *in vivo* by blocking Ca^{2+} -activated K^+ (BK_{Ca}) channels
- 35P Loxham SJG, Poucher SM & Heapy CG The haemodynamic profile of the potassium channel opener, ZD6169, in the anaesthetised dog
- 36P Dora KA & Garland CJ A role for the endothelium in K^+ channel modulation of vasoconstriction in rat mesenteric arteries
- 37P Dhein S, Krüsemann K & Pejman Effects of the I_{KATP} blockers glibenclamide and HMR 1883 on cardiac electrophysiology during regional ischaemia and reperfusion
- 38P White R, Pinnock RD, Lee K & Hiley CR Cannabinoid receptor-mediated inhibition of a methoxamine-induced Cl^- current in rat mesenteric artery
- 39P Geerts IS, Matthys KE, Herman AG & Bult H Enhanced activity of serotonin receptors in the collared carotid artery of the rabbit
- 40P Alexander B, Gryf-Lowczowski JVD, Salisbury J, Sherlock D & Benjamin IS Purine receptors in rabbit thoracic aorta are more vulnerable to denaturation on storage at 4 °C in University of Wisconsin solution than cholinergic receptors
- 41P Canaider S, Solito E, Goulding NJ, Flower RJ & Perretti M Increased apoptosis in cells over-expressing lipocortin 1
- 42P Stanford SJ, Pepper JR & Mitchell JA Evidence for a role of prostacyclin in COX-2 suppression of GM-CSF release by human vascular cells
- 43P Lever R, Haq S, Grundy MM, Richardson NV & Page CP Effects of heparinases and heparin upon the adhesive functions and surface characteristics of human umbilical vein endothelial cells
- 44P Pintér E, Brown B, Hoult JRS & Brain SD Role of neurokinin 1 (NK_1) receptors in the vascular and cellular phases of inflammation induced by thermal injury and mustard oil
- 45P Getting SJ, Flower RJ & Perretti M ACTH 4-10 activates melanocortin type 3 receptor to inhibit neutrophil migration
- 46P Hamilton LC & Warner TD Death of rat aortic smooth muscle cells is reduced by heme oxygenase-1 induction and by exogenous biliverdin
- 47P Ford WR & Hiley CR Angiotensin AT_2 receptor stimulation exacerbates myocardial ischaemia-reperfusion injury
- 48P Zacharowski K & Thiernemann C Effects of sCR1sLex on the infarct size following regional myocardial ischaemia and reperfusion in the anaesthetised rat
- 49P Zacharowski K, Olbrich A & Thiernemann C Reduction of myocardial injury by the EP_3 receptor agonist TEI-3356 in the rat may involve the activation of PKC and of K_{ATP} -channels in the rat
- 50P Woods M, Wood EG, Mitchell JA & Warner TD Studies with CGS 26303, an inhibitor of endothelin converting enzyme, supports the presence of intracellular endothelin-converting enzyme in human vascular smooth muscle cells
- 51P Chatterjee PK, Zacharowski K & Thiernemann C The poly(ADP-ribose) synthetase inhibitor 3-aminobenzamide reduces ischaemia-reperfusion injury in the kidney of the rat *in vivo*
- 52P Hingorani AD, Bhagat K, Palacios M, Griffin GE, MacAllister RJ & Vallance P Acute systemic inflammation impairs endothelium-dependent dilatation in humans
- 53P Chen Z, Ahluwalia A, Selwood DL, Vallance P & Hingorani AD Enhancement of endothelium-dependent vasodilatation by oestradiol 17- β : role of the pterin pathway
- 54P Blanchette A, Nguyen T-D & Thorin E Atherosclerosis-associated $\text{G}\alpha_{\text{q}}$ over-expression induces changes in receptor coupling and endothelin-1 production in cultured human coronary endothelial cells
- 55P Télémaque-Potts S, Yanagisawa M & Davenport AP Modulation of endothelin receptor densities following endogenous overexpression of endothelin-1 in the rat
- 56P Scotland RS, Vallance PJ & Ahluwalia A Modulation of contraction of vasa vasorum: mechanisms and implications for conduit vessel physiology
- 57P van der Lee R, Pfaffendorf M & van Zwieten PA Effect of mibefradil and verapamil on electrical field stimulation-induced contractions in the rat tail artery
- 58P van Heijningen CL, Saxena PR & Schoemaker RG "Classic" as well as "remote" cardiac preconditioning is prevented by Hoe 140
- 59P Hestin D & Johns EJ Renal reperfusion injury is ameliorated by allopurinol
- 60P Dawson L, Chadha A & Duty S Locomotor effects following injection of the group II mGluR agonist, DCG-IV, into the substantia nigra pars reticulata of the reserpine-treated rat model of Parkinson's disease
- 61P Zeng BY, Dass B, Owen A, Rose S, Cannizzaro C, Tel BC & Jenner P α -synuclein mRNA expression in the nucleus accumbens, striatum and substantia nigra of rat is differentially affected by 6-hydroxy-dopamine lesioning
- 62P Clifford JJ, Usiello A, Vallone D, Kinsella A, Borrelli E & Waddington JL Topographical evaluation of behavioural phenotype in a line of mice with targeted gene deletion of the D_2 dopamine receptor
- 63P Treseder SA, Jackson M, Rose S, Jenner P & Marsden CD The effects of central DOPA decarboxylase inhibition on the motor actions of A86929 and quinpirole administered in combination to MPTP-lesioned marmosets
- 64P Hansard MJ, Smith LA, Jackson MJ, Cheetham SC & Jenner P The ability of selective monoamine reuptake inhibitors to reverse the motor and behavioural deficits in MPTP-treated common marmosets
- 65P Neill JC, Wilson AW & Costall B 5-HT agonists attenuate operant responding for an ethanol paired conditioned stimulus
- 66P Bentley JC, Marsden CA, Sleight AJ & Fone KCF Effect of the 5-HT $_2$ antagonist, Ro 04-6790 on food consumption in rats trained to a fixed feeding regime
- 67P Hendrie CA & Starkey NJ Prosocial effects of chronic fluoxetine in pair-disrupted female gerbils

- 68P **Yang W, Benjamin IS & Alexander B** The effects of S-methylisothiourea (SMT), an inducible nitric oxide synthase inhibitor, on hepatic vascular responsiveness in rats with secondary biliary cirrhosis
- 69P **Thorin E** Nitric oxide-dependent relaxation of human isolated coronary arteries to acetylcholine: effect of coronary heart disease
- 70P **Callingham B, Hartshorn S, Crosbie AE, Hiley CR, Vuylsteke A, Ritchie AJ & Latimer RD** The action of diaspirin cross-linked haemoglobin on the reactivity of human isolated left internal mammary and radial arterial rings
- 71P **Hussain MB, Hobbs AJ & MacAllister RJ** Enhanced sensitivity of the soluble guanylate cyclase/cyclic GMP system in the eNOS knockout mouse
- 72P **Yang W, Benjamin IS & Alexander B** The role of nitric oxide in hepatic arterial and portal venous responses to noradrenaline and ATP in rats with secondary biliary cirrhosis
- 73P **Walker H, Jackson G, Ritter JM & Chowienczyk PJ** Reproducibility of bilateral forearm plethysmography to endothelial-dependent vasodilators
- 74P **Queen LR & Ferro A** Genistein and daidzein activate the L-arginine/nitric oxide system in human endothelial cells
- 75P **Queen LR & Ferro A** Mechanism of nitric oxide synthase activation by β -adrenoceptors in human vascular endothelium
- 76P **Heijenbrok FJ, Mathy M-J, Pfaffendorf M & van Zwieten PA** Increased β -adrenergic vasorelaxant responses in rat carotid arteries with neointima are not related to alteration in the NO system
- 77P **Price S, Evans TW & Mitchell JA** Atrial dysfunction induced by endotoxin in rats is modulated by L-arginine: role of nitric oxide
- 78P **Megson IL, Roseberry MJ, Miller MR, Mazzei FA, Butler AR & Webb DJ** S-Nitrosothiols are nitric oxide donor drugs that do not engender vascular tolerance and remain effective in glyceryl trinitrate-tolerant rat femoral arteries
- 79P **Stanford SJ & Mitchell JA** The prolonged phase of ATP-induced vasodilatation in rat mesenteric vessels is mediated by a cannabinoid-type ligand
- 80P **Wong M-PM & Young JM** Evidence that two pathways of Ca^{2+} entry are involved in the inhibitory action of thapsigargin on drug-induced cyclic AMP accumulation in human U373 MG astrocytoma cells
- 81P **Vieira-Coelho MA, Serrão MP & Soares-da-Silva P** Ontogenic influences on the regulation of rat intestinal $\text{Na}^+ \text{K}^+$ ATPase by G proteins
- 82P **Roberts JA & Boarder MR** Differential regulation of mitogenesis by transfected P2Y receptors
- 83P **Audinot V, Newman-Tancredi A & Millan MJ** Estimation of 'full' inverse agonism at G-protein-coupled receptors by $[^{35}\text{S}]\text{-GTP}\gamma\text{S}$ binding at $\text{h5-HT}_{1\text{D}}$ receptors expressed in CHO cells
- 84P **Billington CK, Jobson TM & Hall IP** Extracellular matrix protection promotes survival of human cultured airway smooth muscle cells
- 85P **Pollard CE, Davie CS, Roberts SM, Alexander PD, Springthorpe B, Mortimore MP, Guile SD & Leff P** Identification of an apparently novel, nucleotide-recognising receptor linked to chloride secretion in rabbit and human airway epithelium
- 86P **Philip JG, Cover PO, Morris JF, Flower RJ & Buckingham JC** Modulation of pituitary hormone release by central or peripheral administration of anti-lipocortin 1 antisera
- 87P **Kirkup AJ, Grundy D, Chessell IP & Humphrey PPA** α, β -Methylene-ATP evokes excitation of mesenteric afferent nerves
- 88P **Lucas-Teixeira VA, Vieira-Coelho MA, Serrão MP & Soares-da-Silva P** Fasting enhances α_2 -adrenoceptor-mediated effects on jejunal epithelial transport in 20-day-old rats
- 89P **Vieira-Coelho MA & Soares-da-Silva P** The age-dependent inhibitory effects of dopamine on rat jejunal electrolyte transport and $\text{Na}^+ \text{K}^+$ ATPase are mediated through D_1 receptors
- 90P **Soares-da-Silva P & Serrão MP** Sensitivity to UIC2 and verapamil of native and human P-glycoprotein in LLC-PK₁ and LLC-GA5 Col300 renal cells
- 91P **Coleman RA, Carey J, Murphy OE & Baxter GS** Prostanoid EP receptor mRNA expression in human tissues: correlation with functional expression
- 92P **Wessler I, Racke K, Bittinger F & Kirkpatrick CJ** Expression of choline acetyltransferase in human glial and immune cells
- 93P **Choppin A, Hegde SS & Eglen RM** Pharmacological characterisation of muscarinic receptors in dog ciliary smooth muscle
- 94P **Spitzbarth-Régrigny E, Vandeputte C, Corman B, Tschirhart E & Capdeville-Atkinson C** Impact of age on the involvement of a pertussis toxin-sensitive G_i -protein in agonist-induced calcium-sensitivity of tension in the rat tail artery
This abstract was presented as part of the symposium on 'Endothelial dysfunction: cardiovascular risk factors, oxidative stress and ageing' on Thursday 7 January 1999
- 95P **Graves JE, Taylor PD, Antonios TFT, MacAllister RJ & Singer DRJ** Vascular reactivity of isolated subcutaneous fat resistance arteries from older people
This abstract was presented as part of the symposium on 'Endothelial dysfunction: cardiovascular risk factors, oxidative stress and ageing' on Thursday 7 January 1999
- 96P **Singh N, Graves JE, McAllister RJ & Singer DRJ** Vitamin C does not alter endothelium-dependent dilatation in the forearm of elderly humans
This abstract was presented as part of the symposium on 'Endothelial dysfunction: cardiovascular risk factors, oxidative stress and ageing' on Thursday 7 January 1999
- 97P **Wibberley A, Naylor AM & Ramage AG** An investigation of the pathways involved in changes in bladder and urethral pressures evoked by DMPP, tyramine and bladder distension in anaesthetised rats
This abstract was presented as part of the symposium on 'Bladder and sexual dysfunction in ageing' on Thursday 7 January 1999
- 98P **Cellek S, Ziessen T & Moncada S** Non-adrenergic non-cholinergic responses in the rabbit vaginal wall are mediated by nitrergic neurotransmission
This abstract was presented as part of the symposium on 'Bladder and sexual dysfunction in ageing' on Thursday 7 January 1999
- 99P **Richards JG, Messer J, Bleuel Z & Faull RLM** Quantitative enzyme radioautography reveals an up-regulation of MAO-A and MAO-B in discrete brain regions of patients with Huntington's chorea
This abstract was presented as part of the symposium on 'Neurodegenerative disease and ageing' on Friday 8 January 1999

POSTER COMMUNICATIONS

- 100P **Arch JRS, Kaumann AJ, Molenaar P, Sennitt MV, Berge JM, Chapman H & Kelly J** Studies on a novel selective β_3 -adrenoceptor agonist in human right atrial appendage and human white adipocytes
- 101P **Harper EA, Hasseldine A, Shankley NP & Black JW** Comparison of the apparent affinity of histamine H_3 -receptor ligands in guinea-pig cortex and ileum longitudinal muscle myenteric plexus: further evidence for receptor heterogeneity
- 102P **Harper EA, Nelson RJ, Shankley NP & Black JW** Characterisation of the binding of [3H]-histamine to histamine H_3 -receptor sites in guinea-pig cerebral cortex membranes
- 103P **Criddle DN, Scarparo HC, Santos GCM & Leal-Cardoso JH** Selective inhibitory effects of niflumic acid on 5-HT-induced contraction of the rat isolated fundus
- 104P **Delany C, Hawcock AB & Trevethick MA** Characterisation of tachykinin NK_3 receptors in the rat isolated oesophagus
- 105P **Choppin A, Stepan GJ, Louri D, Watson N & Eglen RM** Effect of ovariectomy on muscarinic receptors in rat isolated uterus *in vivo*
- 106P **Parker CA, Nutt DJ & Hudson AL** Auto-radiographic study of [3H]mivazerol binding sites in the rat heart following chemical sympathectomy
- 107P **Amaechi U, Thompson KM, Burt RP & Marshall I** Differing affinities of Rec 15/2615, Rec 15/2627, Rec 15/2856, Rec 15/3043 and SNAP 5089 at α_{1A} -adrenoceptors in rat epididymal vas deferens and portal vein
- 108P **Wilson J, Javitch JA & Strange PG** A point mutation in the third intracellular loop of the human D_{2short} dopamine receptor increases agonist binding affinities
- 109P **Payne SL, Strange PG, Johansson AM & Hacksell U** Investigating mechanisms of agonist action at the human D_{2short} dopamine receptor
- 110P **Armstrong D & Strange PG** Allosteric regulation of the human D_{2short} dopamine receptor by 5-(N-methyl-N-isobutyl) amiloride
- 111P **Gomes P & Soares-da-Silva P** Interaction between L-DOPA and 3-O-methyl-L-DOPA at the level of the blood-barrier depends on cellular location of the substrates
- 112P **Green A, O'Shaughnessy C, Disney G, Rees S & Marshall F** Reporter assays for human cannabinoid CB1 and CB2 receptors for the identification of novel agonists
- 113P **Michael-Titus AT, Whelpton R & Blackburn DM** [3H]Substance P binding in striatal slices: interaction with substance P fragments
- 114P **Salameh A, Dhein S & Beuckelmann DJ** Effects of cariporide (Hoe 642) on intracellular calcium homeostasis during acidosis in cardiac myocytes
- 115P **Phillips J & Pearce B** Evidence for constitutive and inducible cyclooxygenase expression in cultured glia
- 116P **Bundey RA, Keys B & Nahorski SR** Comparison of the G-protein coupling of recombinant α_{1B} -adrenoceptors and endogenous M_3 -muscarinic receptors co-expressed in the SH-SY5Y neuroblastoma
- 117P **Sheriffs HJ, Nahorski SR & Challiss RAJ** Methacholine-evoked Ca^{2+} -signalling in CHO m1 cells is inhibited by Li^+ in a *myo*-inositol-reversible manner
- 118P **Arkle S, Blake R & Packwood E** Effects of calcium antagonists on *myo*-inositol hexakisphosphate-stimulated Ca^{2+} mobilisation in rat cerebral cortical synaptosomes
- 119P **Billington CK & Hall IP** Chronic M2 stimulation increases forskolin-induced cyclic AMP formation in human cultured airway smooth muscle cells
- 120P **Parsons SJW, Connor HE & Giles H** Differences in antagonist profile determined by direct and reporter gene measurement of cyclic AMP at the human CRH_1 receptor
- 121P **Kanumilli S, Toms NJ, Philpotts J & Roberts PJ** Novel glutamate-mediated inhibition of forskolin-stimulated cyclic AMP accumulation in rat cultured cerebellar astrocytes
- 122P **Scott MGH, Jobson TM, Swan C, Rees ES & Hall IP** Effects of a range of β_2 agonists on intracellular cyclic AMP content and cyclic AMP driven gene expression in primary cultures of human airway smooth muscle cells
- 123P **Fraser NJ, Main MJ, Brown J, Wise A & Foord SM** The amino termini of RAMPs determine the glycosylation state of CRLR and whether it is an adrenomedullin or CGRP receptor
- 124P **Carruthers AM, Sellers LA, Feniuk W & Humphrey PPA** The human recombinant ss_{t5} receptor couples to multiple G proteins in CHO-K1 membranes: quantification by [^{35}S]GTP γ S binding and G α immunoprecipitation
- 125P **Smalley KSM, Koenig JA, Feniuk W & Humphrey PPA** Internalisation characteristics of the human recombinant somatostatin 4 ($hsst_4$) receptor expressed in CHO-K1 cells
- 126P **Summers RJ, Hutchinson DS, Papaioannou M, Hamilton S & Evans BA** Expression and pharmacological properties of the mouse β_{3A} and β_{3B} -adrenoceptor in CHO-K1 cells
- 127P **Simon J, Chessell IP, Jones CA, Michel AD, Barnard EA & Humphrey PPA** Molecular cloning and characterisation of splice variants of the mouse $P2X_4$ receptor
- 128P **Al Taher AY, Brady G & Hollingsworth M** Quantification of the mRNA levels of some potassium channels in human uterus and other human tissues
- 129P **Slough S & Taberner PV** MAO $_A$ inhibition is not responsible for the improved glucose tolerance following the imidazoline S 22068
- 130P **Freeman S, Sharpe PM, Daniels S, Riley I & Poucher SM** Protease-activated receptor (PAR-2) mediated mitogenic response in human lung fibroblasts
- 131P **Fletcher S, Hope AG, Franklin FCH & Barnes NM** Isolation of a partial cDNA clone of the porcine 5-HT $_{3A}$ receptor subunit
- 132P **Gomes P & Soares-da-Silva P** Characteristics of L-DOPA and L-5-HTP transport in RBE4 cells, an immortalised cell line of rat capillary cerebral endothelial cells

- 133P Dickinson K, North TJ & Jones RB BTS 67 582 may mediate insulin secretion via the putative pancreatic islet imidazoline receptor
- 134P Finn DP, Harbuz MS, Nutt DJ & Hudson AL The imidazoline₂ (I₂) site-selective ligand BU224 elevates plasma corticosterone in rats
- 135P Harrold JA, Widdowson PS, Clapham JC & Williams G Changes in uncoupling protein mRNAs in dietary-obese rats and their relationship to thermogenesis
- 136P Van der Graaf PH, Van Schaick EA, Visser SAG, De Greef HJMM, Ijzermann AP & Danhof M Mechanistic pharmacokinetic-pharmacodynamic modelling of anti-lipolytic effects of adenosine A₁ receptor ligands: prediction of tissue-dependent efficacy *in vivo*
- 137P John CD, Cover PO, Taylor AD, Morris JE, Flower RJ, Solito E & Buckingham JC Evidence from *in vivo* and *in vitro* studies that the inhibitory actions of lipocortin 1 on anterior pituitary function require amino acid residues 13-26
- 138P Brady MM, Philip JG, Wells DJ, Christian HC, Morris JE, Croxtall JD, Flower RJ & Buckingham JC Expression and localisation of lipocortin 1 in the rat adrenal gland
- 139P Upton PD, Wharton J, Coppock HA, Smith DM, Ghatei MA, Bloom SR & Morrell Adrenomedullin (AM), a vasodilator peptide secreted by human pulmonary artery derived cells, increases intracellular cAMP and inhibits DNA synthesis
- 140P Babaei H, Evans AT & McCurrie Actions of oestrogens on isolated primate aortic rings
- 141P Christian M & Gillies GE Effects of 17 β -oestradiol and environmental oestrogens on developing rat hypothalamic dopaminergic neurones in culture
- 142P Paterson SJ, Davies MRP, Menzies JRW & Corbett AD The ORL-receptor antagonist [Phe¹Y(CH₂-NH)Gly²]nociceptin(1-13)NH₂ causes contraction in rat and mouse colon
- 143P Leal-Cardoso JH, Lima CC, Coelho-de-Souza AN, Monte FJQ, Jaffar M & Criddle DN Effects of methyl-eugenol on the contractile activity of the guinea-pig isolated ileum
- 144P Roberts SJ, Hamilton S & Summers RJ Regulation of β_3 -adrenoceptors by thyroid hormone in rat ileal smooth muscle
- 145P McCartney SA, Mitchell JA, Farthing JG & Warner TD GM-CSF is produced in high concentrations by inflamed colonic mucosa from patients with ulcerative colitis and is down-regulated by co-incubation with dexamethasone
- 146P Shepherd SL, Cook DA & Hargreaves RJ Induction of B₁ bradykinin receptors with lipopolysaccharide treatment in B₂ bradykinin receptor knockout mice
- 147P Pintér E, Chu DQ, Hoult JRS & Brain SD Lack of evidence for interactions between the tachykinin NK₁ receptor and IL-1 β -mediated events in the rat cutaneous microvasculature
- 148P Cao T, Gerard NP & Brain SD Analysis of neurokinin-1 (NK₁) receptor-mediated oedema formation: use of NK₁ knockout mice
- 149P Jones H, Paul W & Page CP Differential effects of unfractionated heparin and poly-L-glutamic acid on rabbit cutaneous responses
- 150P Hammermann R, Mössner J, Fuhrmann, Wessler I & Racké K Parallel regulation of L-arginine transport and NO synthesis, and mRNA expression for different cationic amino acid transporters and inducible NO synthase in rat alveolar macrophages
- 151P Greenacre S, Ridger V, Evans P, Halliwell B & Brain SD Detection of nitrated proteins in peroxynitrite-treated rat skin and effects of nitrated plasma proteins on plasma extravasation
- 152P Schubert K, Diener HC, Michel MC & Limmroth V NO synthase inhibition by ketoprofen enantiomers
- 153P Limmroth V, Bischoff A, Yu X, Moskowitz MA, Diener HC & Michel MC Inhibition of neurogenic inflammation by ketoprofen does not involve cyclooxygenase inhibition
- 154P Horton J, Williams A, Smith-Phillips Z, Martin R & O'Beirne G Direct intracellular measurement of prostaglandin (PG) E₂ synthesis in mouse cultured fibroblast cells: effect of cyclooxygenase (COX) inhibitors
- 155P Breese EJ, Wood EG, Curtis MJ, Warner TD & Mitchell JA Effects of COX-1 and COX-2-selective NSAIDs on prostaglandin E₂ and GM-CSF production by human synoviocytes
- 156P Bukasa A, Vojnovic I, Giuliano E, Saunders M, Mitchell JA & Warner TD Selectivities of non-steroidal anti-inflammatory drugs as inhibitors of purified ovine COX-1 and COX-2: effects of human plasma
- 157P Messeri DM, Hammermann R, Gothert M & Racké K Extracellular ATP enhances responsiveness of rat alveolar macrophages to lipopolysaccharides (LPS) to induce nitric oxide synthesis
- 158P Hele DJ, Birrell M, Foster M, Webber SE & Belvisi MG The effect of endothelin antagonists on endothelin-1 and lipopolysaccharide-induced microvascular leakage in rat airways
- 159P Spruntulis L & Broadley KJ Non-specific bronchial hyperresponsiveness, early and late asthmatic responses and cell influx in a conscious guinea-pig model of asthma
- 160P Battram CH, Birrell MA, Ling A, Webber SE & Belvisi MG The time course of sephadex-induced rat lung inflammation and a comparison of the activity of various anti-inflammatory drugs
- 161P Rickards K, Page C, Lees P & Cunningham F Phosphodiesterase isoenzyme profiles in neutrophils from asymptomatic COPD and normal horses
- 162P Spencer JPE, Whiteman M & Halliwell B Hypochlorous acid-induced modification of DNA in human respiratory tract epithelial cells: potentiation of oxidation and chlorination reactions by nitrite
- 163P Landells LJ, Jensen MW, Orr LM, Spina D, O'Connor BJ & Page CP Effect of PDE3 and PDE4 inhibitors on proliferation of human peripheral blood mononuclear cells from healthy and asthmatic donors
- 164P Wheeler RD, Stewart A, Charlton P, Barrand MA & Hladky SB Inhibition of vincristine uptake into P-glycoprotein-containing vesicles by the resistance modifier, XR9051
- 165P Laight DW, Denney A, Änggård EE & Carrier MJ Physiological microassay of tissue glutathione status *in vitro*

- 166P Hudson NJ, Hewitt PJ, Yeung CK, Smythe JW & Evans AT Effect of process parameters on the dopamine and lipid peroxidation potential of welding fumes of markers for neurotoxicity
- 167P O'Dowd GM, Hamilton CA, Reid JL & Dominiczak AF Nicorandil: potassium channel opener or nitrovasodilator in human arteries?
- 168P Rinia-Feenstra M, Stooker W, de Graaf R, Kloek JJ, de Mol BAJM, Pfaffendorf M & Van Zwieten PA Comparison of functional properties of human saphenous vein preparations harvested by minimally invasive techniques
- 169P Peters SLM, Mathy M-J, Pfaffendorf M & Van Zwieten PA Mechanism of reactive oxygen species-induced aortic vasoconstriction and deterioration of functional integrity
- 170P Bell JP, Lang D & Lewis MJ Loss of nitric oxide synthase and soluble guanylate cyclase protein in rat coronary microvascular endothelial cells after culture
- 171P Kredan MB, Lang D & Lewis MJ Antioxidant vitamins C and E inhibit homocysteine-induced production of superoxide anions by cultured porcine aortic endothelial cells
- 172P Miller AL, Jackson CL, Jeremy JY & Plane F Recovery of relaxation to acetylcholine in mouse isolated carotid arteries ten days after endothelial denudation *in vivo*
- 173P Sampson LJ, Plane F & Garland CJ A study of relaxation mechanisms activated by the novel nitric oxide donor, diethylamine NONOate, in the rat isolated mesenteric artery
- 174P Vandeputte C, Spizbarth-Régrigny E, Corman B, Tschirhart E & Capdeville-Atkinson C Age, pertussis toxin and agonist-induced vasoconstriction of the rat aorta
- 175P Vandeputte C, Parmentier E, Villemot JP, Bishoff N, Schjoth B, Atkinson J & Capdeville-Atkinson C Protein tyrosine kinase is involved in the vasoconstrictor response to endothelin-1 of the human internal mammary artery
- 176P Kaw AV, Laight DW, Änggård EE & Carrier MJ Evidence for enhanced endothelium-dependent vasodilation *in vitro* in the obese Zucker rat independent of nitric oxide and prostanoids
- 177P Woods M, Wood EG, Mitchell JA & Warner TD Effect of tyrosine kinase inhibitor on cytokine-stimulated endothelin-1 production in human vascular smooth muscle cells
- 178P Walcot NRH, Woods M, Wood EG, Rees GM & Warner TD The role of vascular smooth muscle cells in serum and cytokine-stimulated endothelin-1 production in rat intact aorta
- 179P Piacentini L, Honbo NY & Karliner JS Endothelin-1-induced proliferation of neonatal rat cardiac fibroblasts is redox sensitive
- 180P Wiley KE & Davenport AP The nitric oxide donor S-nitroso-N-acetyl penicillamine (SNAP) does not alter endothelin-1-induced constrictions in human small cell arteries
- 181P Miller WH, Macrae IM & Wadsworth RM Reduction of nitroergic neuronal vasodilation in rabbit basilar arteries
- 182P McCloskey DT & Kentish JC Lack of effect of Inositol 1,4,5 trisphosphate on Ca^{2+} uptake into, and Ca^{2+} release from, the sarcoplasmic reticulum in saponin-skinned isolated ventricular muscles from rat
- 183P Layland J & Kentish The effects of α_1 - and β_2 -adrenoceptor stimulation on the frequency for maximum power output (f_{opt}) of rat isolated cardiac trabeculae undergoing 'physiological' contractions
- 184P Willems EW, Trion M, De Vries P, Heiligers JPC, Villalón CM & Saxena PR Involvement of α_1 - and α_2 -adrenoceptors in the constriction of carotid arteriovenous anastomoses (AVAs) in anaesthetised pigs
- 185P Munavvar AS, Armneia A, Yusof APM, Helmi A & Johns EJ Evaluation of α_1 -adrenoceptor subtypes in the renal vasculature of diabetic spontaneously hypertensive rats
- 186P Gardiner SM, Kemp PA, March JE & Bennett T Effects of FR 167653 on the haemodynamic responses to lipopolysaccharide infusion in conscious rats
- 187P Gardiner SM, Kemp PA, March JE & Bennett T Effects of glibenclamide on vasodilatation during endotoxaemia in conscious rats
- 188P Gardiner SM, Kemp PA, March JE, Reffin D, Mullins JJ & Bennett T Interindividual variability in blood pressures of male, heterozygous ((mRen-2)27) transgenic rats
- 189P Spiers JP, Kelso EJ, Allen JD, Silke B & McDermott BJ Contractile effects of endothelin-1 in ventricular cardiomyocytes isolated from normal and lipopolysaccharide (LPS)-treated rats
- 190P Nguyen T-D & Thorin E Effect of bosentan on myogenic tone and α -adrenergic-dependent contraction of rabbit resistance arteries
- 191P Mosfer S, Lang D & Lewis MJ Endothelin-1-induced superoxide anion production by guinea-pig coronary microvascular endothelial cells: a role in left ventricular hypertrophy
- 192P Krenek, Kyselovic J, Morel N, Wibo M & Godfraind T Angiotensin-induced endothelin expression in isolated rat aorta, functional consequence and inhibition by calcium antagonist
- 193P Maguire JJ, Ahn K & Davenport AP Inhibition of big endothelin-1 (big ET-1) responses in endothelium-denuded human coronary artery by the selective endothelin-converting enzyme-1 (ECE-1) inhibitor PD159790
- 194P Gardner NM, Gumbleton M & Broadley KJ Effect of mast cell degranulation on A_3 -receptor-mediated protection from hypoxia-induced myocardial stunning
- 195P Nicholls J, Hourani SMO & Hall JM Characterisation of receptors mediating vasomotor effects of adenosine analogues in hamster cheek pouch
- 196P Park H-S & Hourani SMO Different effects of adenine nucleotide analogues on the responses mediated by adenosine 5'diphosphate (ADP) receptors on human platelets
- 197P Prentice DJ & Hourani SMO Characterisation of adenosine receptors mediating relaxation in hamster isolated aorta
- 198P Mocanu MM, Baxter GF & Yellon DM Transforming growth factor $\beta 1$ limits infarct size when administered prior to reperfusion in a rat isolated heart model
- 199P Miller AM, McPhaden AR, Wadsworth RM & Wainwright CL Mechanisms underlying leucocyte adhesion following vascular injury and the relevance of leukocytes in neointima formation in a rabbit model of restenosis

- 200P Ruetten H, Gehring D & Busch A Caspase inhibitors improve post-ischaemic functional recovery in rat isolated working hearts
- 201P Jonassen AK, Brar BK, Mjøs OD, Sack MN, Latchman DA, Baxter GF & Yellon DM Insulin modifies myocyte apoptosis and reduces myocardial infarct size when administered at reperfusion: a novel mechanism of protection
- 202P Mamas MA & Terrar DA Actions of arachidonic acid on contraction and spontaneous activity in guinea-pig isolated ventricular myocytes
- 203P Goddard H & Terrar DA Effects of halothane on calcium transients and contractions in guinea-pig and rat isolated ventricular myocytes
- 204P Heath BM & Terrar DA Regulation of cyclic ADP ribose (cADPR) production by protein kinase A in cardiac ventricular microsomes prepared from guinea-pig heart
- 205P Lankhuizen IM, van Veghel R, Saxena PR & Schoemaker RG Effects of AVP and antagonists on coronary and mesenteric arteries in infarcted rats
- 206P Mota-Filipe H, Bowes J & Thiemermann C The stable nitroxide radical tempol protects human endothelial cells against the cellular injury caused by hydrogen peroxide
- 207P Olbrich A, Zacharowski K & Thiemermann C The multiple organ dysfunction caused by lipoteichoic acid and peptidoglycan is attenuated by the stable nitroxide radical tempol in the rat
- 208P Pell TJ, Patel AP, Harrington LS, Sack MN, Yellon DM & Baxter GF Neither heat stress nor ischaemic preconditioning alter myocardial mRNA expression of the ATP-sensitive potassium subunit Kir 6.2
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- 210P Fetscher C, Czyborra P, Meyer zu Heringdorf D, Jakobs KH, Michel MC & Bischoff A Ceramide relaxes rat mesenteric microvessels
- 211P Czyborra P, Fetscher C, Meyer zu Heringdorf D, Jakobs KH, Michel MC & Bischoff A Rat microvessel contraction by sphingolipids: structure-activity relationship and role of endothelial mediators
- 212P Pönicke K, Heinroth-Hoffmann I, Agambai D & Brodde O-E Effects of prostanoids on inositol phosphate formation and protein synthesis in rat neonatal ventricular cardiomyocytes
- 213P Pfaffendorf M, Mathy M-J, van der Lee R & van Zwieten PA Effect of mibefradil and verapamil on the tachycardic response to noradrenaline and electrical stimulation in the pithed rat
- 214P Charlton SJ, Buckingham RE, Smith SA & Piercy V Differential vasorelaxant effects of rosiglitazone, its metabolites and troglitazone
- 215P Lansdell KA, Fraser S, Gillard NP & Patmore L Effects of cisapride on the cardiac action potential recorded in sheep isolated Purkinje fibres
- 216P Zaini Asmawi M, Gardner NM & Broadley KJ In vitro desensitization of atrial β_1 -adrenoceptor function: effects of PDE inhibition
- 217P Hinton JM, Plane F, Ding DC, Bolton S & Garland CJ Modification of 5-HT-induced vasoconstriction of porcine isolated coronary arteries in the presence of an oxygen scavenger
- 218P Zhang L, Beastall G, Parratt JR & Furman BL Possible role of hypothyroidism in the reduction in ischaemia-reperfusion arrhythmias in hearts from streptozotocin-diabetic rats
- 219P Crauwels HML, Jordaens FH, Van den Bossche R, Herman AG & Bult H Collar-induced intimal thickening in the rabbit carotid artery after local administration of albumin and glycated albumin
- 220P Stratton PD, Chowienzyk PJ & Ritter JM Na^+ - H^+ exchange in human platelets exposed to propionate
- 221P Millasseau SC, Bland JE, Kelly RP, Prasad K, Cockcroft JR, Ritter JM & Chowienzyk PJ Comparison of effects of GTN on the digital volume and radial pressure pulse waveforms
- 222P Hawthorn MH, Chapple CR, Noble AJ & Chess-Williams R Role of tyrosine kinase in mediating noradrenaline-induced contractions in human prostate
- 223P Finnis-Lane C, Turner L & Tang K Nitric oxide mediates relaxation of rabbit corpus cavernosum through activation of cGMP-dependent protein kinases
- 224P Russell RJ, Tang K, Hopkins E & Turner L Effects of superoxide generation on nitric oxide-mediated relaxation responses in rabbit corpus cavernosum
- 225P Williamson IJR, Nunn PA & Newgreen DA Investigations of the bladder versus cardiovascular selectivity of tiotropium *in vitro* and *in vivo*
- 226P Smith DM, Nandha KA, Benito-Orfila MA, Jamal H, Akinsaya KO & Bloom SR Expression of neurokinin B receptors in the rat uterus after chronic treatment with gonadal steroid hormones
- 227P Nunn PA & Newgreen DT An investigation into the bladder responses induced via pelvic nerve stimulation in the anaesthetised rat
- 228P Kortekaas R, Bhatnagar S, Dallman MF, Costall B & Smythe JW Effects of different stress stimuli on paraventricular thalamic neurone discharge rates
- 229P Philpott K, Kortekaas R, Smith JW, Costall B & Smythe JW Aged, cognitively-impaired rats have reduced plasma total cholesterol levels
- 230P Smith JW, Costall B & Smythe JW Effects of thyroxine on cognitive function and brain cholinesterase activity
- 231P Grayson B, Mohammed H & Kelly ME The effect of quinpirole in a murine place conditioning paradigm
- 232P Iravani MM, Costa S, Jackson MJ, Pearce RKB & Jenner P Reduction of L-DOPA-induced dyskinesias following intraventricular administration of GDNF in common marmosets
- 233P Iravani MM, Costa S, Jackson MJ, Dass B, Cannizzaro C, Tel B, Yeng B-Y, Pearce RKB & Jenner P GDNF-induced proliferation of nigral dopamine neurons and reduction of striatal expression of preproenkephalin mRNA in MPTP-treated, L-DOPA-primed common marmosets
- 234P Smith AG, Costall B, Neill JC & Shahid M Effect of the putative dopamine D_3 receptor antagonist U99194 on locomotor behaviour in the common marmoset
- 235P Smith AG, Costall B, Neill JC & Shahid M Effect of the putative dopamine D_3 receptor antagonist U99194 on progressive ratio responding in the common marmoset

- 236P **Starkey NJ & Hendrie CA** Interaction between previous social history and the effects of chronic fluoxetine in male gerbils
- 237P **Garrett L, Barton C, Bristow LJ & Hutson PH** The selective 5-HT_{2C/2B} receptor antagonist SB221284 enhances the behavioural and biochemical effects of morphine in mice
- 238P **Houston AJ, Wong JCL & Ebenezer IS** The effects of the GABA_B agonist baclofen on volaemic drinking in rats
- 239P **Halford JCG, Cheetham SC, Heal DJ & Blundell JE** Effects in the rat of BTS 71 091 on food intake and the behavioural satiety sequence
- 240P **Romans KN & Ebenezer IS** The hypophagic effect of lithium chloride in rats is attenuated by pretreatment with the cyclooxygenase inhibitor ibuprofen
- 241P **Lightowler S, Goetghebeur P, Weiss SM & Kennett GA** Effect of withdrawal from chronic chlor-diazepoxide administration in the rat elevated zero maze test of anxiety
- 242P **Parada A & Soares-da-Silva P** Sch 23390 prevents the cocaine anti-sensitisation effects of dizocilpine
- 243P **Chiang T-J, Mobini S, Al-Ruwaitea ASA, Ho M-Y, Bradshaw CM & Szabadi E** Effect of *d*-amphetamine on operant timing behaviour in rats
- 244P **Rowley HL, Kilpatrick IC, Needham PL & Heal DJ** Effects of zotepine and comparator antipsychotics on extracellular dopamine in the frontal cortex of freely-moving rats
- 245P **Smith M & Ebenezer IS** Tolerance does not develop to the hypophagic effects of the 5HT_{1A} agonist buspirone in food-deprived rats after chronic administration
- 246P **Allison C & Pratt JA** Regional alterations in [³H]AMPA binding in rat brain after chronic diazepam treatment
- 247P **Thompson CL, Atkins HD, Stephenson FA & Chazot PL** Immunohistochemical localisation of the NMDA receptor NR1 and NR2C/D subunits in the mammalian hippocampus and cerebellum
- 248P **Varney MA, Cosford N, Jachec C, Rao C, Sacca A, Santori E, Allgeier H, Gasparini F, Flore PJ, Kuhn R, Hess SD, Velicelebi G & Johnson EC** Characterization of SIB-1757 and SIB-1893: highly selective antagonists at metabotropic glutamate receptor subtype 5
- 249P **Gasparini F, Lingenhoehl K, Flor PJ, Munier N, Heinrich M, Pagano A, Vranesic I, Biollaz M, Heckendorn R, Allgeier H, Varney M, Johnson E, Hess SD, Velicelebi G & Kuhn R** Methylphenylethynylpyridine (MPEP): a novel potent, subtype-selective and systemically active antagonist at metabotropic glutamate receptor subtype 5
- 250P **Bowes M, Panesar M, Gentry C, Urban L, Gasparini F, Kuhn R & Walker K** Anti-hyperalgesic effects of the novel metabotropic glutamate receptor 5 antagonist, methylphenylethynylpyridine, in rat models of inflammatory pain
- 251P **Liu XH & Morris R** The effects of metabotropic glutamate receptor agonists on neurones in the superficial laminae (LI III) of the dorsal horn of the rat lumbar spinal cord *in vitro*
- 252P **Calvert GR, Thompson KSJ, Martin KF & Heal DJ** Docosahexaenoic acid affects glutamate-induced cell death in primary cortical cultures
- 253P **Richards DA & Morrone LA** Extracellular glutamate levels following intrahippocampal infusion of α -dendrotoxin and dendrotoxin-K in the rat
- 254P **Chopra B, Chazot PL, Mugnaini M & Stephenson FA** A comparison between the binding affinities of two novel glycine site antagonists to cloned NMDA receptor subtypes
- 255P **Assié MB & Koek W** 8-OH-DPAT labels 5-HT_{1A} receptors and 5-HT uptake sites as well as other serotonergic binding sites in the rat brain raphe area
- 256P **McMullan AJ, Cooper AJ, Abramowski D & Barnes NM** Cellular localisation of the 5-HT_{2C} receptor in the rat brain
- 257P **Prow MR, Lancashire B, Kilpatrick IC, Aspley S & Heal DJ** Co-administration of phentermine with D-fenfluramine causes additive effects on rat brain 5-HT release *in vivo* and *in vitro*
- 258P **Ebenezer IS, Parrott RF & Vellucci SV** Pretreatment with 8-OH-DPAT or gepirone does not attenuate the depressant effect of CCK on operant food intake in pigs
- 259P **Cutler DJ, Morris R, Sheridhar V, Wattam TA, Arch JRS, Wilson S, Buckingham RE & Williams G** Immunochemical investigation of a novel hypothalamic feeding peptide, orexin-A: anatomical distribution in rat brain and spinal cord and its relationship to other hypothalamic neurotransmitter systems
- 260P **Castro ME, Harrison PJ & Sharp T** Affinity of β -adrenoceptor ligands for pre- and post-synaptic 5-HT_{1A} receptors in rat brain
- 261P **Hajós-Korcsok H, McTavish SFB & Sharp T** Effect of selective monoamine uptake inhibitors on extracellular 5-HT and noradrenaline in the hippocampus of the awake rat
- 262P **Bonhaus DW, Eglen RM, Martin GR, Flippin LA, Greenhouse RJ, Jaime S, Rocha C, Dawson M, Van Natta K, Chang LK, Pulido-Rios T, Webber A, Cao Z & Wong L** RS-127445, a novel, selective 5-HT receptor antagonist, inhibits neurogenic inflammatory responses in rat dura mater
- 263P **Elliott J & Reynolds GP** Agonist-stimulated GTP[³⁵S] binding to 5-HT_{1A} receptors in human post-mortem hippocampus
- 264P **Park S-Y, Widdowson PS, Harrold JA & Williams G** Selective neuroanatomical changes in 5-HT_{1A} and 5-HT_{2A} receptors and reuptake sites in dietary-obese rats
- 265P **Steward LJ, Kennedy MD, Pratt JA & Morris BJ** Continuous subcutaneous delivery of clozapine decreases 5-HT_{2A} receptor binding in rat brain
- 266P **Siniscalchi A, Sbrenna S, Rodi D, Beani L & Bianchi C** Inhibitory effect of nociceptin on [³H]-5HT release from the rat cerebral cortex
- 267P **Malek JA, Widdowson PS, Harrold JA, McKnight AT & Williams G** Changes in nociceptin receptor density in dietary-obese rats
- 268P **Bertorelli R, Corradini L & Ongini E** Nociceptin and the putative ORL1 antagonist [Phe¹Y(CH₂-NH)Gly²]nociceptin(1-13)NH₂ act as antinociceptive peptides in Freund's adjuvant-induced arthritis, a chronic model of pain
- 269P **Serrano A & de Ceballos ML** Enkephalinergic modulation of striatal glutamate and GABA release *in vivo* following a nigrostriatal lesion in the rat

- 270P **Okawa H, Hirst RA, Calo G, Guerrini R, Grandy DK & Lambert DG** Effects of [Phe¹Y(CH₂-NH)Gly²]nociceptin(1-13)NH₂ and Ac-RYYRWK-NH₂ on cAMP formation in Chinese hamster ovary cells expressing the rat nociceptin receptor
- 271P **Harrison C, McNulty S, Smart D, Rowbotham DJ, Grandy DK, Devi LA & Lambert DG** Intracellular Ca²⁺ in single adherent Chinese hamster ovary cells is increased through activation of recombinant μ , δ and κ opioid receptors
- 272P **Chadah A, Dawson L & Duty S** Effect of 6-hydroxytryptamine-lesioning on the full complement of GABA_A receptor subunit gene expression in the rodent basal ganglia and thalamus
- 273P **Sutch R & Bowery N** GABA_B modulation of GABA release is apparently altered in a rat model of absence epilepsy
- 274P **Patel S, Naeem S, Gentry CT, Urban L & Fox A** The effects of the GABA_B agonist CGP35024 in models of neuropathic and inflammatory pain and in the rat isolated hemisectioned spinal cord
- 275P **Meecham KG, Blyth KL, Hughes J & Williams RG** [³H]-Gabapentin binding in the rat spinal cord following local ibotenic acid injections
- 276P **Kennedy MD, Steward LJ, Morris BJ & Pratt JA** Continuous subcutaneous delivery of haloperidol increases D2 receptor binding in rat striatum
- 277P **Pei Q, Lewis L, McQuade R & Zetterström TSC** Administration of 6-OHDA abolished GIRK2 expression in substantia nigra
- 278P **Campbell JM, Gilmore DP, Russell D, Growney CA, Favor G, Bennett NK, Payne AP, Davies RW & Stone TW** The release of dopamine and its metabolites in the striatum of conscious AS/AGU rats
- 279P **Seppä T, Ruotsalainen M & Ahtee L** Effect of acute nicotine on striatal dopamine output and metabolism in rats kept at different ambient temperatures
- 280P **Hyde JE, Smith SE, Ainsworth K & Sharp T** Repeated administration of venlafaxine, maprotiline and mianserin increases dopamine D₂ but not D₁ receptor expression in the nucleus accumbens of the rat
- 281P **O'Kane EM & Stone TW** Intracellular study of an adenosine receptor interaction in hippocampal pyramidal cells
- 282P **O'Kane EM & Stone TW** Barium prevents adenosine A₁ receptor changes of EPSP-spike coupling
- 283P **Adami M, Citterio F, Ongini E & Monopoli A** The adenosine A_{A2} receptor blocker, SCH 58261, is effective over a 2-week administration regimen in haloperidol-induced catalepsy
- 284P **Barton CL, Jay MT, Meurer L & Hutson PH** GR205171, a selective NK₁ receptor antagonist attenuates stress-induced increase of dopamine metabolism in rat medial prefrontal cortex
- 285P **Cougnon-Aptel N, Munglani R, Clayton NM, Ward P & Bountra C** Changes in spinal cord neuropeptides in the adjuvant model of chronic inflammatory hyperalgesia in the presence and absence of the neurokinin 1 (NK1) receptor antagonist GR205171
- 286P **Brownhill V, Dyer E & McKnight AT** Agonist-dependent coupling of the NK₁-receptor
- 287P **Parrott RF & Vellucci S** Inability of the tachykinin NK₁ receptor antagonist GR 205171 to modify endotoxin-induced fever and cortisol release in pigs
- 288P **Dolan S, Field LC & Nolan AM** Differential expression of nitric oxide synthase isoforms and NADPH-diaphorase staining in spinal cord following carrageenan-induced peripheral inflammation
- 289P **Cochran SM, McKerchar CE, Morris BJ & Pratt JA** Clozapine and haloperidol evoke differential patterns of local cerebral glucose utilisation in the rat
- 290P **Murkitt KL & Wood MD** Allosteric modulation of functional responses at the hM1 and hM3 receptors by brucine and gallamine
- 291P **Hainsworth AH, Marfia GA, Centonze D, Leach MJ, Bernardi G & Calabresi P** The neuroprotective agent BW619C89 inhibits neuronal excitability and synaptic transmission in rat corticostriatal slices
- 292P **Postlethwaite M, Constanti A & Libri V** Caffeine blocks the post-stimulus afterdepolarising tail current (I_{ADP}) induced by muscarinic receptor activation in olfactory cortical neurones *in vitro*
- 293P **Singewald N & Sharp T** Effects of anxiogenic/panicogenic drugs on Fos expression in the locus coeruleus, periaqueductal gray and dorsal raphe nucleus
- 294P **Cross AJ, Anderson SMP, John VH, De Souza RJ & Green AR** Clomethiazole attenuates hypoxia-induced damage to rat cerebellar granule cells *in vitro*
- 295P **Kortekaas R, Costall B & Smythe JW** Additional evidence for an EEG arousal effect of the median raphe nucleus in the rat
- 296P **Whitehead KJ, Pearce SM & Bowery NG** Amino acid efflux from the rat spinal cord *in vivo* in response to thermal stimulation of the hindpaw
- 297P **Nucci C, Piccirilli S, Rodinò P, Lombardo M, Nisticò R, Bagetta G & Cerulli L** Monocular deprivation enhances citrulline content in the lateral geniculate nucleus of new-born rats and this is prevented by N^ω-nitro-L-arginine methyl ester (L-NAME)

DEMONSTRATION

- 298P **Dewhurst DG, Collins CGS & Shafiq I** A computer-based interactive tutorial to teach the physiology and pharmacology of the neuromuscular junction to undergraduate students

HYPOTHESIS

(Voted in by membership after a presentation by Dr Nahas)

- 299P **Nahas GG & Harvey D** Psychoactive cannabinoids and membrane signalling: a putative mechanism

**ABSTRACTS FROM A SYMPOSIUM ON 'THE PHARMACOLOGY OF AGEING: TOWARDS
OPTIMAL DRUG THERAPY FOR THE DISORDERS OF LATE LIFE'**

Tuesday 5 January 1999

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| 300P Swift CG The age factor in therapeutics | 304P Iversen LL Targeting age-related disorders in the brain |
| 301P Kirkwood TBL Normal and abnormal ageing processes in man | 305P Webb DJ Targeting age-related disorders in the arteries |
| 302P Yates RA New molecules for older people: selectivity and specificity | 306P Rawlins MD Priorities in drug regulation and development |
| 303P Kerwin R Genomics and drug invention | |

ABSTRACTS FROM A SYMPOSIUM ON 'BASIC MECHANISMS OF AGEING'

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| 307P Kirkwood TBL Cellular mechanisms of ageing | 309P Orr WC & Sohal RS Genetics and transgenics: what do they tell us about ageing? |
| 308P Lindahl T Repair of endogenous damage to DNA | 310P Viña J The ageing mitochondrion: a target for therapeutic intervention? |

ABSTRACTS FROM A SYMPOSIUM ON 'AGEING AND INFLAMMATORY DISEASE'

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| 311P Helme RD & Khalil Z Inflammation and pain in the ageing population | 313P Vignola AM Remodelling of tissues: implications for ageing and novel treatment regimes |
| 312P O'Connor B COPD: the need for new treatments | |

**ABSTRACTS FROM A SYMPOSIUM ON 'ENDOTHELIAL DYSFUNCTION, CARDIOVASCULAR
RISK FACTORS, OXIDATIVE STRESS AND AGEING'**

Thursday 7 January 1999

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| 314P Moncada S Endothelium-derived nitric oxide | 317P Lyons D Converting enzyme, the sympathetic nervous system and endothelial function in relation to ageing |
| 315P Mann GE Endothelial cell gene expression and oxidative stress | 318P Taddei S Interaction between the effects of ageing and of cardiovascular risk factors on endothelial function |
| 316P Chowienczyk P Endothelial dysfunction and oxidative stress in man <i>in vivo</i> | |

ABSTRACTS FROM A SYMPOSIUM ON 'BLADDER AND SEXUAL DYSFUNCTION IN AGEING '

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| 319P Castleden C Clinical pharmacology of the lower urinary tract: needs met and unmet | 321P Martin W Oxidative stress and abnormal neurotransmission in genital smooth muscle |
| 320P Andersson K-E Insights into the neurotransmitter control of the lower urinary tract: possibilities for drug therapy | 322P Naylor AM Phosphodiesterase inhibitors: a novel approach to combat erectile dysfunction |

ABSTRACT FROM A SYMPOSIUM ON 'NEURODEGENERATIVE DISEASE AND AGEING'

Friday 8 January 1999

- 323P **Hunter J** Neuroprotectant agents and stroke: high-risk or golden opportunity?