

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, Lalias 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 **Tofigby 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, Delagrange 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 $\text{I}_{\text{K,ATP}}$ 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 & Thiemermann C** Effects of sCR1sLex on the infarct size following regional myocardial ischaemia and reperfusion in the anaesthetised rat

49P **Zacharowski K, Olbrich A & Thiemermann C** Reduction of myocardial injury by the EP₃ 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 & Thiemermann 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 $\text{G}\alpha_{i1}$ 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 mibepradil 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-HT₆ 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 diaspisin 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** Ontogenetic influences on the regulation of rat intestinal $Na^+ K^+$ 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 $^{[35]S}$ -GTP γ S binding at h5-HT_{1D} 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 $Na^+ K^+$ ATPase are mediated through D₁ 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-Régnigny E, Vandepitte 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 nitrenergic 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 H₃-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 H₃-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 NK₃ receptors in the rat isolated oesophagus

105P **Choppin A, Stepan GJ, Loury D, Watson N & Eglen RM** Effect of ovariectomy on muscarinic receptors in rat isolated uterus *in vivo*

106P **Parker CA, Nutt DJ & Hudson AL** Autoradiographic 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 M₃-muscarinic receptors co-expressed in the SH-SY5Y neuroblastoma

117P **Sherriffs HJ, Nahorski SR & Challiss RAJ** Methacholine-evoked Ca²⁺-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 Ca²⁺ 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 CRH₁ 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 $\beta 2$ 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 sst₅ receptor couples to multiple G proteins in CHO-K1 membranes: quantification by [³⁵S]GTP γ S binding and Gα immunoprecipitation

125P **Smalley KSM, Koenig JA, Feniuk W & Humphrey PPA** Internalisation characteristics of the human recombinant somatostatin 4 (sst₄) 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 P2X₄ 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, Ijzerman 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 JF, 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 JF, 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 **Shepheard 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 F, 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, Schjøth 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 nitrergic 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

209P **Zeegers A, van Wilgenburg H & Leeuwin RS** Modification of responses of the rat heart to benzodiazepine agonists and inverse agonists by PK 11195 and flumazenil

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 mibebradil 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, Chowienczyk 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 & Chowienczyk 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 tiopramide *in vitro* and *in vivo*

226P **Smith DM, Nandha KA, Benito-Orfila MA, Jamal H, Akinsaya KO & Bloom SR** Expression of neuromedin U 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, Jache C, Rao C, Sacaan 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, Heckendorf R, Allgeier H, Varney M, Johnson E, Hess SD, Velicelebi G & Kuhn R** Methyl-phenylethynylpyridine (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** Immunohistochemical 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 b-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 antiopioid 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 hemisected 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, Gowney 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 corticostratial 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

300P **Swift CG** The age factor in therapeutics
301P **Kirkwood TBL** Normal and abnormal ageing processes in man
302P **Yates RA** New molecules for older people: selectivity and specificity
303P **Kerwin R** Genomics and drug invention

304P **Iversen LL** Targeting age-related disorders in the brain
305P **Webb DJ** Targeting age-related disorders in the arteries
306P **Rawlins MD** Priorities in drug regulation and development

ABSTRACTS FROM A SYMPOSIUM ON 'BASIC MECHANISMS OF AGEING'

Wednesday 6 January 1999

307P **Kirkwood TBL** Cellular mechanisms of ageing
308P **Lindahl T** Repair of endogenous damage to DNA

309P **Orr WC & Sohal RS** Genetics and transgenics: what do they tell us about ageing?
310P **Viña J** The ageing mitochondrion: a target for therapeutic intervention?

ABSTRACTS FROM A SYMPOSIUM ON 'AGEING AND INFLAMMATORY DISEASE'

Wednesday 6 January 1999

311P **Helme RD & Khalil Z** Inflammation and pain in the ageing population
312P **O'Connor B** COPD: the need for new treatments

313P **Vignola AM** Remodelling of tissues: implications for ageing and novel treatment regimes

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

Thursday 7 January 1999

314P **Moncada S** Endothelium-derived nitric oxide
315P **Mann GE** Endothelial cell gene expression and oxidative stress
316P **Chowienczyk P** Endothelial dysfunction and oxidative stress in man *in vivo*

317P **Lyons D** Converting enzyme, the sympathetic nervous system and endothelial function in relation to ageing
318P **Taddei S** Interaction between the effects of ageing and of cardiovascular risk factors on endothelial function

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

Thursday 7 January 1999

319P **Castleden C** Clinical pharmacology of the lower urinary tract: needs met and unmet
320P **Andersson K-E** Insights into the neurotransmitter control of the lower urinary tract: possibilities for drug therapy

321P **Martin W** Oxidative stress and abnormal neurotransmission in genital smooth muscle
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?