ORAL COMMUNICATIONS

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

1P **Price S, Warner TD, Evans TW, Anning PB & Mitchell JA** Role of endothelin-1 in modulation of cardiac function in endotoxaemia

2P **Price S, Mitchell JA, Anning PB & Evans TW** Effect of selective iNOS inhibition on cardiac function in endotoxaemia

3P **Papapetropoulos A, Xagorari A, Kotanidou A, Fotsis T, Cirino G & Roussos C** Luteolin inhibits lipopolysaccharide (LPS)-induced lethal toxicity and pro-inflammatory molecule expression

4P **Zacharowski K, Frank S & Thiemermann C** Role of nitric oxide on the delayed cardioprotection afforded by lipopolysaccharide in the rat heart *in vivo*

5P **Zacharowski K, Chatterjee PK & Thiemermann C** Different wall fragments of Gram-positive or negative bacteria induce delayed preconditioning in the rat heart *in vivo*

6P **Fraser JL & Coker SJ** Desogestrel reduces ventricular fibrillation induced by reperfusion but not by ischaemia

7P **Baxter GF, Ebrahim Z & Yellon DM** AMP579, an adenosine A_1 and A_{2a} receptor agonist, attenuates lethal reperfusion injury in rat heart via the P42/P44 MAPK pathway

8P **Baxter GF, Kis A & Yellon DM** AMP579, an adenosine A_1 and A_{2A} receptor agonist, limits infarct size in rabbit heart in vivo when given at reperfusion: role of A_{2A} receptor activation

9P **Masini E, Ndisang JF, Baronti R, Cecere G, Vannacci A, Bani D & Mannaioni PF** Nitric oxide synthase and heme oxygenase modulation of cardiac anaphylaxis *in vitro*

10P **Ebrahim Z, Yellon DM & Baxter GF** Omapatrilat lowers the threshold for induction of ischaemic preconditioning via activation of the bradykinin B_2 receptor

11P **Sand C, Pfaffendorf M & Van Zwieten PA** Oxidative stress reduces the pharmacological activity of therapeutics with antioxidant properties

12P **Patel N, Chatterjee PK, Chatterjee BE & Thiemermann C** The stable nitroxyl radical TEMPONE reduces oxidative stress-mediated renal dysfunction in the rat *in vivo* and *in vitro*

13P **Blandizzi C, Scheibner J, Hein L, Trendelenberg AU & Del Tacca M** Presynaptic regulation of noradrenergic and cholinergic neurotransmission in the ileal myenteric plexus of $\alpha_{2A/D}$-adrenoceptor knockout mice

14P **Dass N, Davis JB & Sanger GJ** Responses to E-capsaicin in detrusor tissue from both wildtype and vanilloid receptor-1 null mice

15P **Thompson KM, Simon J, Humphrey PPA & Michel AD** Antagonist potencies at human and rat chimeric $P2X_7$ receptors

16P **Elneil S, Skepper JN, Kidd EJ, Williamson JG, Sellers LA & Ferguson DR** Evidence for differential expression of $P2X_1$ and $P2X_3$, and purine receptors in the detrusor muscle and urothelium, respectively, in the rat and human urinary bladder

17P **Carratù MR, Cagiano R, Tattoli M, Trabace L, Borracci P & Cuomo V** Prenatal exposure to carbon monoxide impairs myelination and sphingomyelin homeostasis in the sciatic nerve of rat offspring

18P **De Paolis B, Blandizzi C, Colucci R & Del Tacca M** Acetylcholinesterase blockade does not account for the cardiac inhibitory effects of the anticancer drug irinotecan

19P **Borrelli F, Izzo AA, Mereto E, Russo A & Capasso F** Effect of senna on growth of aberrant crypt foci and tumours in the rat colon

20P **Jarajapu YPR, Coats P, McGrath JC, Hillier C & MacDonald A** Functional characterisation of α_1 adrenoceptor subtypes in human skeletal muscle resistance arteries

21P **Leineweber K, Seyfarth T, Pönicke K, Heinroth-Hoffmann I & Brodde O-E** Noradrenaline-induced hypertrophic response in cardiomyocytes from monocrotaline-treated rats

22P **Sakata K, Bäck M & Dahlén S-E** Leukotriene B_4 is an indirectly acting vasoconstrictor in the guinea-pig pulmonary artery

23P **Bucci M, Roviezzo F, Cicala C & Cirino G** Involvement of heat shock protein (Hsp-90) in 17-beta-oestradiol-induced vasorelaxation *in vitro*

24P **Wiley KE & Davenport AP** Functional response of apelin-13, the novel endogenous ligand for the orphan receptor APJ, in human internal mammary artery: comparison with natriuretic peptides

25P **Raimondi L, Banchelli G, Matucci R, Stillitano F, Pirisino R & Mugelli A** The effect of neuropeptide Y (NPY) on the GTPase activity of rat left ventricle Gi proteins

26P **Dhein S, Schaefer T, Polontchouk L & Weng S** Involvement of protein kinase C (PKC) in the effect of antiarrhythmic peptide (AAP) on cardiac gap junctions

27P **Woolard J, Gardiner SM, Bennett T & Aspley S** Regional haemodynamic responses to fluoxetine or nisoxetine in conscious Sprague-Dawley rats

28P **Gitlin JM, Evans TW, Stanford SJ, Anning PB & Mitchell JA** Modulation of anandamide-evoked relaxation in the rat isolated mesenteric bed by the PGI_2 analogue cicaprost

29P **Bishop-Bailey D, Hla T & Warner TD** Peroxisome proliferator-activated (PPAR)γ ligands induce vascular smooth muscle cell apoptosis

30P **Balt JC, Mathy M-J, Pfaffendorf M & Van Zwieten PA** Blockade of pre- and post-synaptically located AT1-receptors: a comparison between losartan, irbesartan, telmisartan, valsartan, candesartan, eprosartan and embusartan

31P **Vieira-Coelho MA, Gomes P, Serrão P & Soares-da-Silva P** Tolcapone, entacapone and nitecapone stimulate renal D1-like receptors and decrease renal tubular sodium absorption

32P **Getting SJ, Flower RJ & Perretti M** Effect of melanocortin agonists on joint inflammation

33P **La M, Bandiera S, Flower RJ & Perretti M** Annexin-I-derived peptides protect against myocardial ischaemia reperfusion injury

34P **John CD, Solito E, Mulla A, Morris JF, Flower RJ & Buckingham JC** Dexamethasone induces serine phosphorylation of annexin 1 in pituitary cells and suppresses ACTH release by a PKC-dependent mechanism

35P **Brunelleschi S, Lavagno L, Colangelo D & Viano I** Tachykinin activation of human monocytes from normal and rheumatoid patients: effects of cyclosporin A

36P **Gray PA, Breese EJ, Wood EG, Warner TD & Mitchell JA** Respective effects of cAMP elevation versus cGMP elevation on GMCSF release by human synoviocytes

37P **Royle MCJ, Paul A, Maskell DJ & Bryant CE** A comparison of the responses of RAW 264.7 macrophages to lipopolysaccharide and infection with *Salmonella typhimurium*

38P **Brunelleschi S, Penengo L, Lavagno L, Santoro C, Colangelo D, Viano I & Gaudino G** Macrophage-stimulating protein (MSP) activates human macrophages

39P **Stanford SJ, Pepper JR & Mitchell JA** IL-4, but not IFNγ, differentially regulates GM-CSF and G-CSF release from stimulated arterial and venous smooth muscle cells

40P **Clarke DL, Patel HJ, Mitchell JA, Yacoub MH, Giembycz MA & Belvisi MG** Regulation of the release of colony-stimulating factors from human airway smooth muscle cells by prostaglandin E_2

41P **Cuzzocrea S, McDonald MC, Mazzon E, Dugo L, Mota-Filipe H, Caputi AP & Thiemermann C** Effects of 5-aminoisoquinolinone, a water-soluble, potent inhibitor of the activity of poly (ADP-ribose) polymerase on P-selectin and intercellular adhesion molecule-1 in lung injury

42P **Patel HJ, Belvisi MG, Bishop-Bailey D, Yacoub MH & Mitchell JA** Evidence for an anti-proliferative role of peroxisome-proliferator-activated receptors in human airway smooth muscle cells

43P **de Souza PM, Kankaanranta H, Barnes PJ, Giembycz MA & Lindsay MA** Caspase-mediated cleavage of MST1 during apoptosis of human eosinophils

44P **Izzo AA, Capasso R, Pinto L, Iuvone T, Esposito G, Mascolo N & Capasso F** Effect of cannabinoid agonists on intestinal motility in a chronic model of intestinal inflammation

45P **Lattanzi R, Giannini E, Melchiom P & Negri L** Pharmacology of BV8, a new peptide from amphibian skin

46P **Melchiorri D, Bruno V, Besong G, Ngomba R, Cuomo L, Copani A, Nicoletti F & Passarelli F** The mammalian homologue of the novel peptide BV8 is expressed in the central nervous system and supports neuronal survival by activating the MAP kinase/PI-3-kinase pathways

47P **Carruthers AM, Sellers LA, Jenkins DW, Feniuk W & Humphrey PPA** Adenosine A_1 receptor-mediated inhibition of calcitonin gene-related peptide release from rat trigeminal neurones

48P **Collins SD, Clayton NM, Sheehan MJ, Cousins R & Bountra C** The effect of GR190178, a selective low-efficacy adenosine A_1 receptor agonist, on the treatment of neuropathic hyperalgesia in the rat

49P **Clayton NM, Brown TA, Sargent RS, Brazdil R, Collins SD, Sheehan MJ & Bountra C** The effect of the selective low-efficacy adenosine A1 agonist GR 190178, in models of nociceptive, acute and established pain hypersensitivity in the rat

50P **Jenkins DW, Sellers LA & Humphrey PPA** Prostaglandins induce calcitonin gene-related peptide release from adult rat trigeminal neurones

51P **Bianchi M & Panerai AE** Anti-hyperalgesic effects of lornoxicam, piroxicam, meloxicam, ketorolac and aspirin in rats

52P **Sokal DM & Chapman V** Effects of topical baclofen on evoked-responses of dorsal horn neurones in control, sham-operated and spinal nerve ligated rats *in vivo*

53P **Lovick TA** Neurosteroid modulation of neuronal excitability in the periaqueductal grey matter in rats: cardiovascular and electrophysiological studies with ORG20599

54P **Bland-Ward PA, Feniuk W & Humphrey PPA** The adenosine A1 receptor agonist GR79236 inhibits evoked firing of medullary dorsal horn neurones in the anaesthetised rat

55P **Bartolini A, Galeotti N, Ghelardini C, Zoppi M, Del Bene E, Raimondi L & Benforti E** Hypofunctionality of Gi proteins as aetiopathogenetic mechanism for migraine and cluster headache

56P **Gessi S, Varani K, Merighi S, Morelli A, Leung E, Baraldi PG, Spalluto G & Borea PA** Pharmacological and biochemical characterisation of A_3 adenosine receptors in Jurkat T cells

57P **Michel AD, Xing M, Thompson KM & Humphrey PPA** Lipids effects on responses at $P2X_7$ receptors

58P **Matharu A-L, Mundell SJ & Kelly E** Short term desensitization and internalization of the rat A_{2B} adenosine receptor is mediated by its distal C-terminus tail

59P **Dalton RL, Dowell SJ & Sheehan MJ** Functional significance of sequence variants in the C-terminal tail of the human adenosine A_{2A} receptor

60P **Gomes P, Vieira-Coelho MA & Soares-da-Silva P** Decreases in Na^+ transepithelial flux by dopamine is primarily dependent on inhibition of the apical Na^+/H^+ exchanger

61P **Thompson SA, Wingrove PB, Whiting PJ & Wafford KA** The functional response of tracazolate is dependent on the subunits present within the $GABA_A$ receptor

62P **Ghadessy R & Kelly E** Evidence that PKA and PKC regulate endogenous secretin receptor responsiveness

63P **Chen J, Krauss AH-P, Protzman CE, Gil DW, Usansky H, Burk RM, Andrews SW & Woodward DF** Studies on the pharmacology of prostamide $F_{2\alpha}$, a naturally occurring substance

64P **Wort SJ, Evans TW, Woods M, Warner TD & Mitchell JA** Endogenously released endothelin-1 from human pulmonary artery smooth muscle promotes cellular proliferation

65P **Polontchouk LO, Ebelt B, Jackels M & Dhein S** Effects of endothelin-1 and angiotensin-II on the cardiac connexin expression

66P **D'Amico M, Di Filippo C, Piegari E, Berrino L, Filippelli A & Rossi F** Interaction between ouabain and endothelin-1 in blood pressure effects elicited from the periaqueductal grey area of rats

67P **Coats P, Johnston F, MacDonald J, McMurray JJ & Hillier C** Endothelium-derived hyperpolarizing factor in human pressurised small subcutaneous resistance arteries may be a product of phospholipase A_2 and cytochrome P450 metabolism

68P **Weston AH, Gardener MJ, Félétou M,Vanhoutte PM & Edwards G** Components of the bradykinin-induced endothelium-dependent hyperpolarization of pig coronary artery

69P **Stanford SJ, Pepper JR & Mitchell JA** Pre-treatment with IL-1β inhibits SNP-induced apoptosis of human venous smooth muscle cells

70P **McNeish AJ, Wilson WS & Martin W** Characterisation of endothelium-dependent vasodilator responses in the bovine isolated perfused eye

71P **Martin W & Buyukafsar K** Oxidation of nitroxyl anion to nitric oxide by quinones

72P **Sartiani L, Cerbai E, DePaoli P, Lonardo G, Cagiano R, Tattoli M, Cuomo V & Mugelli A** *In utero* exposure to carbon monoxide alters the electrophysiological maturation of neonatal rat ventricular cardiomyocytes

73P **Pellegrini-Giampietro D, Meli E, Cozzi A, Romagnoli P, Pellicciari R & Moroni F** Inhibitors of poly(ADP-ribose) polymerase (PARP) are neuroprotective against necrotic but not apoptotic post-ischaemic cell death

74P **Moroni F, Attucci S, Cozzi A, Meli E, Pellicciari R & Pellegrini-Giampietro D** Antagonists of metabotropic glutamate 1 receptors reduce post-ischaemic neuronal death

75P **Richards DA, Tolias C, Sgouros S & Bowery NG** Extracellular amino acids in severely head-injured children: a microdialysis study

76P **Guaspirini G, Bianchi L, Giovannini MG, Pepeu G & Della Corte L** Extracellular concentrations of acetylcholine, GABA, glutamate and aspartate in the rat ventral hippocampus during exploratory activity in an open field

77P **Handford EJ, Smith D, McAllister G, Stanton JA & Beer MS** Edg4 receptor distribution and functionality

78P **O'Callaghan M & Little HJ** ACTH 4-10 decreases preference of C57 strain mice for alcohol

79P **MacInnes N & Handley SL** The beta carbolines norharmane and harmaline, but not the specific MAO-B inhibitor RO16-6491, substitute for the imidazoline ligand 2-BFI in rat drug discrimination

80P **Gilbert E, Owen A, Rose S & Jenner P** Prolonged elevation of PPE-A and PPT mRNA following chronic L-DOPA treatment of 6-OHDA lesioned rats

81P **McNamara F, Clifford J, Kinsella A, Drago J, Croke D & Waddington J** Topographical assessment of behavioural phenotype in congenic dopamine D_{1A} receptor 'knockout' mice

82P **Day NC, Watson J, Page KJ, Mitchell JN, Munday PW, Price GW & Brown AM** Characterisation of native tissue 5-HT receptors in the human dorsal raphe nucelus (DRN) by [^{35}S]GTPγ autoradiography

83P **Watson J, Scott C, Davies CH, Soffin EM, Harries MH, Gaster L, Wyman P, Day NC & Price GW** Comparison of functional efficacy measured at human recombinant and native tissue 5-HT_{1A} receptors

84P **Torrie LJ, MacKenzie CJ, Paul A & Plevin R** The effect of phenylarsine on NIK-dependent IKK/NFκB signalling in LPS-stimulated RASMC

85P **Cameron P, Bingham D, Rotondo D & Plevin R** The effect of *E.coli* 0157:H7 and its associated verotoxins on the stress-activated protein kinase and NFκB pathways in Vero cells

86P **Liu L, Paul A & Plevin R** The NFκB pathway participates in the increase in IRF-1 expression in human endothelial cells stimulated by lipopolysaccharide and tumour necrosis factor-α

87P **Wise H, Kam YW & Chow KBS** Prostacyclin receptor-independent effects of non-prostanoid prostacyclin mimetics

88P **Werry TD, Christie M, Dainty I, Wilkinson GF & Willars GB** Ca^{2+} signalling by recombinant CXCR2 chemokine receptors is potentiated by P2Y2 purinoceptors in human embryonic kidney (HEK) cells

POSTER COMMUNICATIONS

89P **Kis A, Krassói, Papp JGy, Parratt JR & Végh Á** Are B_1 bradykinin receptors involved in the antiarrhythmic effect of bradykinin in anaesthetised dogs?

90P **Ebrahim Z, Yellon DM & Baxter GF** Bradykinin elicits delayed myocardial protection in rat heart via a nitric oxide-dependent mechanism

91P **Kingsbury M, Robinson H, Flores N & Sheridan D** The role of K_{ATP} channels, adenosine, nitric oxide and prostaglandins as mediators of reactive hyperaemia in guinea-pig hearts

92P **Robertson DA & Lyles GA** Inducible nitric oxide synthase (iNOS) expression in rat aortic cultured smooth muscle cells treated with caffeic acid and related analogues

93P **de Saram K, McNeill KL, Khokher S, Ritter JM & Chowienczyk PJ** Differential effects of vitamin C and superoxide dismutase mimetic on NO-mediated vasodilatation in rabbit aortic rings during oxidant stress

94P **McGinn JS, Crozier A & MacLean MR** Mechanisms of vasodilation of green and black tea extracts and epicatechin derivatives

95P **Katz LM, Marr CM & Elliott J** A comparison of the responses of equine digital veins and arteries to endothelin-1

96P **Barbadillo-Muñoz M, Trimble P, Ralevic V, Williams G & Alexander SPH** Relaxation of the porcine isolated, pre-contracted coronary artery by ATP and ADP: mediation via A_{2A} adenosine receptors

97P **Bardswell SC, Woods M, Bishop-Bailey D, Wood EG, Mitchell JA & Warner TD** Effect of peroxisome proliferator-activated receptor agonists on cytokine-stimulated endothelin-1 production in human vascular smooth muscle cells

98P **Spiers JP, Hennessy M, Scott K, Volkov Y, Kavanagh P, Keller D & Feely J** Receptor-mediated internalisation of a fluorescein labelled endothelin-1 in a human endothelial cell line

99P **Johnström P, Landvatter SW, Senderoff SG, Clark JC, Pickard JD, Ohlestein EH & Davenport AP** Synthesis and preliminary *in vitro* characterisation of a ^{18}F-labelled analogue of SB209670, a PET radioligand for the endothelin receptor

100P **Streefkerk JO, Pfaffendorf M & van Zwieten PA** Differences in potency and efficacy of vasodilators *in vitro* are dependent on the characteristics of the applied pretension

101P **Soares de Moura R, Carvalho LCRM, Emiliano AF & Castro Resende A** Vasodilator effect of angiotensin II in the isolated mesenteric vascular bed of the rat

102P **Lal H, Emery CJ, MacLean MR & Higenbottam TW** 5-Hydroxytryptamine receptor-mediated vasoconstriction is selectively augmented in pulmonary resistance arteries from Fawn hooded rats

103P **Delahaye M, Galzin AM & O'Connor SE** Antagonism of 5-HT-induced contraction of porcine isolated coronary artery by SL 65.0472

104P **Strange F, Bailey SR & Elliott J** Effect of temperature on 5-hydroxytryptamine-mediated vasoconstriction of equine digital veins

105P **Bailey SR, Wheeler-Jones C & Elliott J** Uptake of 5-hydroxytryptamine by equine digital vein endothelial cells: inhibition by amines found in the equine caecum

106P **Jarajapu YPR, Johnston F, Coats P, MacDonald A & Hillier C** Post-junctional α_1- and α_2-adrenoceptor-mediated contractile responses in human resistance arteries vary with the vascular bed

107P **Nivoit P, Cotecchia S, Atkinson J & Lartaud-Idjouadiene I** Elastic properties of the aortic wall in α-1B-adrenoceptor knockout mice

108P **Pfaffendorf M, Sand C & van Zwieten PA** Effects of oxidative stress on the α_1-adrenoceptor-induced contractions in the rat isolated portal vein

109P **Cicala C, Morello S, Bucci M & Cirino G** A peptide activating protease activated receptor-2 reduces the vascular response to phenylephrine *in vitro* and *in vivo*

110P **McDaid J & Docherty JR** Vascular actions of MDMA involve α-adrenoceptors and 5-HT receptors

111P **Wecking C, Meyer zu Heringdorf D, Jakobs KH, Michel MC & Bischoff A** Pertussis toxin inhibits the diuretic and natriuretic effects of sphingosine-1-phosphate and sphingosylphosphorylcholine in anaesthetized rats

112P **Tep-areenan P, Kendall DA & Randall MD** Vasorelaxation to 17 β-oestradiol in the rat isolated mesenteric arterial bed

113P **McCulloch AI, Kendall DA & Randall MD** Vasorelaxation of CP55940 and HU210 in the rat isolated mesenteric arterial bed is not mediated by the CB_1 cannabinoid receptor

114P **Katugampola SD & Davenport AP** Distribution of thromboxane receptors in the normal human heart and its alteration with disease

115P **Katugampola SD, Pallikaros Z & Davenport AP** Characterisation of [^{125}I]-ghrelin, the endogenous radiolabelled ligand for the growth hormone secretagogue orphan receptor in human cardiovascular tissue

116P **Farkas A & Coker SJ** Prostaglandin E2 prevents clofilium-induced torsade de pointes

117P **Kelso EJ, Spiers JP, McDermott BJ, Silke B, McKeown P & Nicholls DP** Cardiac gene expression analysis of the left ventricle and atria in anthracyclin-induced cardiomyopathy in rabbits

118P **Thomas MA, Bishop-Bailey D, Wood EG & Warner TD** Biliverdin, the product of heme oxygenase metabolism, attenuates SIN-1-induced apoptosis in WKY 3M-22 rat aortic smooth muscle cells

119P **Abdelrahman M, McDonald MC, Cuzzocrea S & Thiemermann C** Effects of tyrphostin AG126 on the multiple organ failure caused by severe haemorrhage and resuscitation in the anaesthetised rat

120P **Abdelrahman M, McDonald MC, Wayman NS & Thiemermann C** Effects of L-N-(L-iminoethyl)lysine (L-NIL) on the circulatory failure and multiple organ injury in haemorrhagic shock in the anaesthetised rat

121P **Wayman NS, McDonald MC, Threadgill MD & Thiemermann C** Effects of 5-aminoisoquinolinone on regional myocardial ischaemia and reperfusion in the anaesthetised rat

122P **Wayman NS & Thiemermann C** Effects of 15-deoxy-D12,14-prostaglandin J2 on the infarct size caused by myocardial ischaemia and reperfusion in the rat

123P **Chatterjee PK, Pedersen H, Chatterjee BE, McDonald MC, Thomson AS, Threadgill MD & Thiemermann C** The poly(ADP-ribose) polymerase inhibitor 5-aminoisoquinoline reduces oxidative stress-mediated renal dysfunction in the rat *in vivo* and *in vitro*

124P **McAllister KHM, Pullen SL, McHarg AD, Chahwala SB & Wallis RM** The R(+) enantiomer of amlodipine has an endothelial-dependent vasodilatory effect on canine coronary artery

125P **McNeill JR & Yu M** Haemodynamic effects of a novel hypotensive vasopressin peptide

126P **Montero JL & Llenas J** The piglet isolated Purkinje fibres preparation as a suitable model to predict drug-induced ventricular arrhythmias

127P **DePaoli P, Cerbai E, Koidl B, Kirchengast M, Sartiani L & Mugelli A** Selectivity of calcium channel blockers on T- and L-type calcium currents in guinea-pig ventricular myocytes

128P **Trevisi L, Bova S, Cargnelli G, Danieli-Betto D, Floreani M, Germinario E, D'Auria MV & Luciani S** Callipeltin A: cardiac effects and inhibition of Na/Ca exchanger

129P **Sorrentino R, d'Emmanuele di Villa Bianca R, Autore G, Lippolis L, Marzocco S, Mancuso F, Baydoun A & Pinto A** Co-administration of spermine and newborn calf serum to rats elevates blood pressure *in vivo*

130P **Leishman DJ, Helliwell R, Wakerell J & Wallis RM** Effects of E-4031, cisapride, terfenadine and terodiline on cardiac repolarisation in canine purkinje fibre and HERG channels expressed in HEK293 cells

131P **Leishman DJ, Douthwaite M, Kidd T, Memer P, Walker DK, West H & Wallis RM** Effects of E-4031, cisapride, terfenadine and terodiline on monophasic action potential duration (MAPD) and incidence of Torsade des Pointes (TdP) in the dog

132P **Guo C & Piacentini L** Divergent regulations of MMP-2 and MMP-9 in adult rat cardiac fibroblasts: mechanism of proMMP-2 activation

133P **Colado MI, O'Shea E, Esteban B & Green AR** Prevention of 3,4-methylenedioxymethamphetamine (MDMA; Ecstasy)-induced neurodegeneration by the clomethiazole analogue AR-A008055

134P **Johnston LC, Smith L, Rose S & Jenner P** The novel dopamine D2 receptor partial agonist, SLV-308, reverses motor disability in MPTP-lesioned common marmosets *(Callithrix Jacchus)*

135P **Ge J, Hamilton W, Shahid M, Hill DR & Walker G** The effects of Org 25935 on the extracellular levels of glycine in brain regions of freely moving rats

136P **Smith CGS & Whitehead K** Determination of the extracellular glycine concentration in the rat spinal cord *in vivo*

137P **Tyacke RJ, Paterson LM, Nutt DJ & Hudson AL** Pretreatment with imidazoline$_2$ binding site compounds increases the binding of [^{3}H]2BFI in rat brain membranes

138P **Robinson ESJ, Tyacke R, Nutt DJ & Hudson AL** Effect of BU99006, an irreversible imidazoline$_2$ binding site ligand, in the distribution of [^{3}H]2BFI and of [^{3}H]RX821002 binding to rat brain sections

139P **Kelland EE & Toms NJ** AMPA receptor-mediated excitotoxic cell death in rat cultured oligodendrocyte progenitor cells

140P **Marchi M, Pedrini A, Monopoli A, Ongini E & Raiteri M** Presynaptic adenosine receptors modulate [^{3}H]D-aspartate release in rat cortical nerve endings

141P **Vladimirov A, Kanumilli S & Roberts PJ** Investigation of mGlu receptors in protoplasmic and fibrous astrocytes: implications for receptor cross-talk

142P **Kanumilli S, Gudgeon C & Roberts PJ** Effect of metabotropic glutamate receptors on astrocyte proliferation: involvement of PKC and PLD

143P **Lambert DG** Naloxone benzoylhydrazone is a partial agonist at human nociceptin receptors expressed in Chinese hamster ovary cells (CHO_{NCR}) studies with GTPγ^{35}S

144P **Low PB, Lambert JJ & Peters JA** A comparative study of the pharmacological properties of human recombinant homo- and hetero-oligomeric 5-hydroxytryptamine Type-3 (5-HT_3) receptors

145P **Roberts C, Watson J, Scott C, Collin L, Harries MH, Wyman P, Gaster L, Price GW & Middlemiss DN** SB-272183, a selective 5HT_{1A}, 5-HT_{1B} and 5-HT_{1D} receptor antagonist

146P **Giovannini MG, Blitzer RD, Wong T, Morrison JH, Pepeu G, Iyengar R & Landau EM** Regulation of CAMKII by the MAPK pathway in long-term potentiation

147P **Elands CM, Drinkenburg WHIM, Clark AG, Allan L, Boxall A, Hill DR & Shahid M** Electrophysiological and electroencephalographical characterisation in rats indicates CX516 to be an anxiolytic

148P **Cater HL, Poyner DR & Hartell NA** The effect of CGRP and $CGRP_{8-37}$ on synaptic transmission in Purkinje cells in the cerebellum

149P **Wang Y, Howitt SB & Poyner DR** A comparison of the antagonist actions of [$^{11-18}$Ser]$CGRP_{8-37}$ with $CGRP_{8-37}$ on the CGRP receptors expressed on L6, SK-N-MC and COL 29 cells

150P **Fariba F & Simmonds M** Some effects of membrane cholesterol on AMPA receptors in acutely dissociated hippocampal neurones

151P **Clayton N, Kozlowski CM, Brazdil R & Bountra C** Colorectal distension-evoked iNOS, nitrotyrosine and c-fos expression in the anaesthetised rat is inhibited by the selective iNOS inhibitor GW274150

152P **More JCA, Troop HM & Jane DE** The N^3-substituted willardiine analogue (S)-3-(4-carboxybenzyl)willardiine selectively antagonises AMPA kainate on neonatal rat spinal motoneurones

153P **Liu XH, Spiller DG, Morris R, White MRH & Williams G** Are glucose-receptive neurones in lateral hypothalamus modulated by Orexin-A? A combined electrophysiological and immunohistochemical study

154P **Pedata F, Melani A, Pantoni L, Binachi L, Bordoni F, Monopoli A & Pepeu G** Effect of adenosine A_{2A} receptor antagonism on the histological damage, neurological deficit and striatal adenosine and amino acid outflow following middle cerebral artery occlusion in the rat

155P **Nikbakht M-R & Stone TW** Activation of NMDA receptors suppresses presynaptic responses to adenosine

156P **Harrold JA, Widdowson PS & Williams G** Evidence that γ-MSH is the endogenous anti-obesity ligand acting at hypothalamic melanocortin-4 receptors

157P **Sampaio-Maia MB, Serrão P & Soares-da-Silva P** Role of intracellular regulatory pathways upon uptake and handling of L-DOPA by capillary cerebral endothelial cells, astrocytes and neuronal cells

158P **Zeng B-Y, Heales SJR, Canevari L & Jenner P** Dopamine D-1, D-2 and D-3 receptor binding density was not altered in tetrahydrobiopterin-deficient hph-1 mice

159P **Nickolls SA & Strange PG** Preferential coupling of D_{2S} dopamine receptors to αo G proteins over αi2 G proteins

160P **Bastia E, Impagnatiello F, Freduzzi S, Ongini E & Monopoli A** The A_{2A} adenosine receptor antagonists are effective in models of Parkinson's disease through the modulation of both D2 and D1 dopaminergic pathways

161P **Kulkarni RS, Rose S & Jenner P** Effect of cytochrome P4502E1 inhibition on free radical formation and dopamine efflux in the rat striatum: a microdialysis study

162P **Kelly S & Chapman V** Effect of a selective cannabinoid CB_1 receptor agonist on spinal nociceptive transmission in carrageenan inflamed anaesthetised rats

163P **Millns PJ, Chapman V & Kendall DA** Cannabinoid receptor activation reduces capsaicin-evoked increases in $[Ca^{2+}]_i$ in adult dorsal root ganglia cells

164P **Bonabello A, Galmozzi MR, Bruzzese T & Zara GP** Analgesic effect of bisphosphanates in mice

165P **Cole SL, Sellers LA, Schindler M, Zhang H-T, Helboe L & Humphrey PPA** Detection of somatostatin and somatostatin receptor types in the rat trigeminal ganglion

166P **Wilkins ME, Harvey RJ & Smart TG** Identification of the H^+ ion modulatory site on a $GABA_A$ receptor

167P **Jarvie E, Feniuk W & Humphrey PPA** Regulation of capsaicin-evoked release of CGRP from rat isolated dura mater *in vitro*

168P **Smith E, Stafford S, Hall M, Singh L, Williams R & Meecham K** *Ex vivo* measurement of *c-fos* mRNA using TaqMan® quantitative Polymerase Chain Reaction (qPCR)

169P **Corradini L, Briscini L, Ongini E & Bertorelli R** The nociceptin system plays a crucial role in the modulation of the allodynic-like behaviour of neuropathic rats

170P **Martindale J, Bland-Ward PA & Chessell IP** Inhibition of C-fibre and mechanically-evoked dorsal horn neurone activity following intraplantar formalin injection in the anaesthetised rat

171P **Peden DR, Belelli D, Peters JA, Wildsmith JAW & Lambert JJ** A single transmembrane located amino acid influences the actions of GABA and pentobarbitone acting on an invertebrate GABA receptor (RDL)

172P **Johnston T, Jenner P & Duty S** Alterations in $GABA_B1B$ and $GABA_B1C$ receptor gene expression in the basal ganglia and thalamus of rats bearing a nigrostriatal tract lesion

173P **Fattori M, Bianchi L, Collivicchi MA, Chechi M, Bolam JP & Della Corte L** The evoked release of GABA and taurine from the striatopallidal (indirect) pathway: a dual probe microdialysis study in the freely-moving rat

174P **Giovannini MG, Rakovska A, Benton RS, Bianchi L, Della Corte-L & Pepeu G** ACh and GABA release from the cortex and hippocampus of the rat during novelty and habituation

175P **Easter A & Spruce AE** Recombinant expression of $GABA_B$ receptors in NG108-15 cells using polyethylenimine (PEI)

176P **Easter A & Spruce AE** Calcium channel subtypes modulated by recombinantly expressed $GABA_B$ receptors in NG108-15 cells

177P **Bowery BJ, Meza-Toledo S & Bowery NG** Differential effect of $GABA_B$ receptor antagonists on electrically-evoked release of [^{3}H]-GABA in nigral and cerebrocortical slices of rat brain

178P **Principalle A, Bowery NG, Pangalos M & Spreafico R** Expression of $GABA_{B(1a)}$, $GABA_{B(1b)}$ and $GABA_{B2}$ subunit proteins in the cortex and thalamus of rat

179P **Dang K, Patel S, Urban L & Bowery NG** Comparative binding of [^{3}H]-CPG62349 and [^{3}H]-GABA in the spinal lamina II of chronically $GABA_B$ agonist treated neuropathic rats

180P **Gäddnäs H, Pietilä K & Ahtee L** Circadian activity in mice during chronic oral nicotine administration

181P **Finn DP, Hudson AL, Harbuz MS & Nutt DJ** The effect of the imidazoline$_2$ (I_2) site selective ligand BU224 in rat exposed to a forced swim test paradigm

182P **Romans KN & Ebenezer IS** Indomethacin attenuates the inhibitory effects of cholecystokinin on food intake in rats

183P **Tessari M, Calderan L, Milanese M, Andreoli M, Tarter G, Valerio E, Corsi M & Chiamulera C** Effects of mecamylamine and raclopride pre-treatment on a rat model of nicotine-seeking behaviour

184P **Mechan AO, Green AR, Elliott JM, Young AMJ, Joseph MH & Moran PM** A study of the differences in the behaviour of Dark Agouti and Sprague-Dawley rats in the elevated plus-maze

185P **Jhaveri MD, Beckett SRG, Kendall DA & Marsden CA** Effects of mild unconditioned footshock on *cfos* expression in the periaqueductal grey of rat

186P **Ebenezer IS, Parrott RF & Vellucci SV** Effects of intracerebroventricular (icv) administration of WAY 100635 on the effects of 8-OH-DPAT on operant food intake in satiated and fasted pigs

187P **Kelly JA, Bennett GW, Beckett S, Slator GR, Roe CH, O'Loinsigh ED & O'Boyle KM** Effects of thyrotropin-releasing hormone-degrading ectoenzyme inhibitors on thyrotropin-releasing hormone actions *in vivo*

188P **Reeves DC & Lummis SCR** Characterisation of a 5-HT_{3B} receptor subunit antiserum

189P **Lummis SCR, O'Brien JA & Hastings MH** Gene gun-mediated expression of yellow fluorescent protein-linked 5-HT_{3A} receptors in HEK293 cells and brain slices

190P **Miller JC, O'Neill MJ & Jane DE** Immunocytochemical localization of glutamate receptor subtypes in the lumbar region of the neonatal rat spinal cord

191P **Vieira-Coelho MA & Soares-da-Silva P** Effect of BIA 3-202 on catechol-*O*-methyltransferase in rat liver and erythrocytes

192P **Mahmoud NG, Mueller A, McKeating JA & Strange PG** Pharmacological analysis of CCR5 receptors using [^{35}S]GTPγS binding

193P **Brini AT, Degl'Innocenti D & Dombrowicz D** Characterisation of the human FcεRIα subunit promoter region and its modulation by interleukin-4 and by receptor engagement

194P **Goulding NJ, Rajakulendran S, Goulding PN, Perretti M, Flower RJ & Guyre PM** Monocyte CD163 expression is regulated by glucocorticoids and lipopolysaccharide but not by chemokines

195P **Langham CJ, Dougall IG, Wilkinson GF, Scaramellini CM & McHale M** The pharmacological effects of the CCR4 chemokine receptor ligands macrophage-derived chemokine and thymus and activation-regulated chemokine on human T cells

196P **Giuliano F & Warner TD** COX-1-derived PGE_2: a comparison between human and rat blood

197P **Calatayud S, Allcock GH, Perretti M, Mitchell JA & Warner TD** Comparison of the effects of the selective COX-2 inhibitor, DFP, and indomethacin on leukocyte-endothelial cell interactions in the rat mesentery

198P **Rotondo S, Dell'Elba G, Manarini S, Martelli N, Simone V, Evangelista V & Cerletti C** ML3000, a balanced inhibitor of cyclooxygenase and lipoxygenase, inhibits platelet/polymorphonuclear leukocyte transcellular metabolism and adhesion

199P **Battu GR, Zeitlin IJ & Gray AI** Anti-inflammatory activity on adjuvant-induced arthritis in rats of octanordammarane triterpenes from resin extracts of *Commiphora kua*

200P **Autore G, Marzocco S, Sorrentino R, Lippolis L, d'Emmanuele di Villa Bianca R, Baydoun A & Pinto A** Regulation of expression of inducible nitric oxide synthase by the uraemic catabolite methylguanidine (MG)

201P **Foster PA, Wicks S, Foster M & Brain SD** Nerve growth factor (NGF) induces extravascular accumulation of macrophages and lymphocytes, in addition to neutrophils, in rat dorsal skin

202P **Grant AD & Brain SD** Capsaicin-mediated neurogenic vasodilatation in neurokinin-1 (NK_1) receptor knockout mice

203P **Perretti M, Wheller SK, Getting SJ & Gao J-L** Involvement of FPR in the anti-inflammatory action of annexin-1

204P **Birrell M, McCluskie K, Yacoub MH & Belvisi MG** Effect of the HMG-CoA reductase inhibitor, pravastatin, on Sephadex-induced airway inflammation in the rat

205P **Billington CK & Hall IP** Effects of a range of pro- and anti-inflammatory agents on adenylate cyclase sensitisation and muscarinic M2 regulation in human airway smooth muscle cells

206P **Harrison S, Maggiore B, Amadesi S, Tognetto M, Trevisani M, Navarra G, Turini A & Geppetti P** Bradykinin B_2 receptor-induced contraction of human isolated gallbladder is increased by inflammation

207P **Püttmann K, Bischoff A, Kötting A, Moser C, Buschauer A & Michel MC** Signal transduction of human Y_5 neuropeptide Y receptors

208P **Gomes P & Soares-da-Silva P** Involvement of multiple signalling pathways during stimulation of renal dopamine D_1-like receptors

209P **Li Y, Keffel S, Buscher R, Goepel M & Michel MC** Staurosporine-induced cell death in Madin-Darby canine kidney cells

210P **Tricarico D, Montanari L, Loiodice F, Tortorella V & Conte Camerino D** Dualistic ATP-dependent action of new synthesized 3-4-dihydro-2H-1,4-benzoxaxine derivatives and cromakalim on muscle K_{ATP} channel

211P **Gomes P & Soares-da-Silva P** Gi protein coupled D_2-like receptors stimulate ATP-sensitive K^+ channels through a cyclic AMP-independent pathway in OK cells

212P **Pozzoli G, Tringali G, Dello Russo C, Preziosi P & Navarra P** HIV-1 Gp120 protein modulates CRF synthesis and release via the stimulation of its mRNA from the rat hypothalamus *in vitro:* involvement of iNOS

213P **Langmead CJ, Ratcliffe SJ, Szekeres PG, Bridges AM, Blaney FE, Jones DNC & Herdon HJ** Identification of key residues involved in binding of [^{125}I]-prolactin-releasing peptide (PRRP) to GPR10

214P **Mundell SJ, Matharu A-L & Kelly E** C-terminus truncation of the rat A_{2B} adenosine receptor promotes arrestin-independent surface receptor loss following prolonged agonist exposure

215P **Salameh A, Polontchouk L, Hagendorff A, Dhein S & Pfeiffer D** On the chronic regulation of gap junction protein connexin 43 (Cx43) expression

216P **Griffante C, Remelli R, Gomeni R, Trist DG, Reggiani A, Cavanni P & Corsi M** Characterisation of substance P-induced calcium release by using the NK_1 antagonists L0733,060, GR205171 and MK-0869 in human NK_1-CHO cells

217P **Cacciaguerra S & Spampinato S** Characterisation of σ_1 recognition sites in NG 108-15 cells by receptor binding and Ca^{2+} mobilization

218P **Michel AD, Thompson KM & Humphrey PPA** The p38 mitogen-activated protein kinase inhibitor SB203580 can antagonise $P2X_7$ receptor-mediated responses

219P **Simon J, Sellers LA, Lundahl TS, Humphrey PPA & Barnard EA** Stimulation of mitogen-activated protein kinase pathways via P2Y1 and *P2YT* receptors in brain capillary endothelial cells

220P **Cilia A, Poggesi E, Testa R & Leonardi A** Correlation between effects on [^{35}S]GTPγS binding and low/high affinity ratios for the human 5-HT_{1A} receptor transfected in HeLa cells

221P **Brown NA, Kerby J, Bonnert T & Wafford KA** Pharmacology of a novel α4β3δ $GABA_A$ receptor cell line

222P **Maneuf YP, Blake R, Andrews NA & McKnight AT** Reduction by gabapentin of K^+-evoked release of [^{3}H]-glutamate from the trigeminal nucleus of the streptozotocin-treated rat

223P **Macaulay A, Rosahl TW, Hadingham KH, Whiting PJ & Wafford KA** Investigation of $GABA_A$ receptors in cerebellar Purkinje neurons using mice lacking the a1 or b2 subunits

224P **Desaphy J-F, De Luca A, Pierno S, Lentini G, Franchini C, Tortorella V, George AL & Conte Camerino D** Mutant-specific mexiletine block of myopathic sodium channels explained by differences in gating

225P **Talon S, De Luca A, De Bellis M, Franchini C, Lentini G, Tortorella V & Conte Camerino D** Isosteric derivatives of mexiletine: new potent use-dependent blockers of skeletal muscle sodium channels with potential antimyotonic activity

226P **Brown JT, Comet M-A, Hussein JF & Prince RJ** Mutational analysis of neuronal nicotinic acetylcholine receptor agonist binding sites

227P **Hashiba E, Lambert DG, Toth G & Smith G** Comparison of the binding of [^{3}H]NC(1-13)NH_2, [^{3}H]NCOH and [^{125}I]Y^{14}NCOH to human recombinant nociceptin receptors expressed in Chinese hamster ovary cells

228P **Rizzi D, Rizzi A, Bigoni R, Regoli D & Calo' G** Effects of Ro 64-6198 in nociceptin/orphanin FQ-sensitive isolated tissues

229P **Thompson KM, Simon J, Chessell IP, Humphrey PPA & Michel AD** Electrophysiological studies at human and rat chimeric $P2X_7$ receptors

230P **Navarra M, Bilotta A, Rotiroti D & Di Renzo GF** The protective effect of ethanol against gp120-induced cytotoxicity involves the inhibition of a Ca^{2+} activated NO/cGMP pathway

231P **Yamanishi T, Chapple CR, Yasuda K & Chess-Williams R** Characterisation of the β–adrenoceptor subtypes in urinary bladder of the pig

232P **Yu Q, Lal H, Woodward B & Williams KI** ET-1 sensitizes actions of vasoconstrictor agents in rat isolated perfused lungs

233P **Tracey A, Bunton D, MacDonald A, Wilkie I & Shaw AM** Relaxation to bradykinin in bovine pulmonary supernumerary arteries can be mediated by both a nitric oxide-dependent and -independent mechanism

234P **Sisodiya A, Emery CJ, Kilpatrick IC & Higenbottam TW** The acute effects of *d*-fenfluramine on pulmonary pressor responses to 5-HT and hypoxia in the blood-perfused rat isolated lung preparation

235P **Murdoch R, Keegan A & MacLean MR** 5-HT moduline is an endogenous modulator of 5-HT_{1B}- mediated contraction in rabbit pulmonary resistance arteries

236P **D'Agostino B, Galleli L, Marrocco G, Mazzeo F, De Palma R & Rossi F** Role of sensory neuropeptides in *Parietaria judaica*-induced airway hyperresponsiveness in sensitized rabbit

237P **Borman RA, Gilbert MB, Harmer DW, James RS, Clark KL, Coleman RA & Davis RJ** Differential expression of mRNA for ion channels and transporters in cystic fibrosis (CF) and non-CF human lung samples

238P **Back M, Kumlin M & Dahlen S-E** S-hexyl-glutathione changes receptor preference and metabolism of leukotriene D_4 in the guinea-pig trachea

239P **Brown T, Bunton D, MacDonald A, Irvine J & Shaw AM** The effect of tyrosine kinase and MAP kinase kinase inhibition on contractile responses to U46619 and 5-hydroxytryptamine in bovine pulmonary supernumerary arteries

240P **Catalioto R-M, Santicoli P, Turini D & Maggi CA** Characterization of bradykinin-induced intracellular Ca^{2+} increase in human colon smooth muscle cells

241P **Khan H, Tuladhar BR & Naylor RJ** A novel relaxation response to 5-HT in the mouse tetrodotoxin-precontracted isolated colon

242P **Criddle DN, Macêdo LB, Meireles AVP, Leal-Cardoso JH, Scarparo HC & Jaffar M** Comparative inhibitory effects of niflumic acid and novel synthetic analogues on contractile responses of the rat stomach fundus

243P **Barocelli E, Chiaverini M, Ballabeni V, Calcina F, Bertoni S & Impicciatore M** Rat gastric acid secretion: functional evidence for a role of H_3 histamine receptors

244P **Adami M, Coruzzi G, Soldani G, Todorov S, Zamfirova R, Stavrev E, Brown DR & Kulkarni-Narla A** Investigation of CB_1 cannabinoid receptors mediating antisecretory effects in rat stomach

245P **Calatayud S, Warner TD & Mitchell JA** Modulation of colony stimulating factor release and apoptosis in human colon cancer cells by anticancer drugs

246P **Romanelli L, Morrone LA, Amico MC, Palmery M & Valeri P** Opposite role of opioid and cholecystokinin systems on the withdrawal response to adenosine A_1-receptor agonist in the guinea-pig isolated ileum

247P **Capasso A & Loizzo A** Purinoceptors are involved in the control of acute morphine withdrawal

248P **Rajamani K, Leong S & Docherty JR** Prejunctional actions of MDMA in mouse vas deferens

249P **Cousins ID, Abdul-Hamid MA, Mann GS, Harriss DR & Hill SJ** Intracellular Ca^{2+} responses to carbachol in human cultured detrusor smooth muscle cells: evidence for an involvement of both M_2 and M_3 muscarinic receptors

250P **De Luca A, Pierno S, Liantonio A, Cetrone M, Camerino C, Rüegg UT & Conte Camerino D** Taurine ameliorates *in vitro* and *in vivo* the electrical and contractile properties of skeletal muscle fibres of dystrophic MDX mouse

251P **Baines IA, Hickinson MM, Draper LM, Bottoms MA, Mitchell JN, Bowen WP & Brown AM** Cytotoxicity of the thiazolidinedione compounds troglitazone and pioglitazone in human isolated hepatocytes

252P **Zara GP, Cavalli R, Bargoni A, Fundaro A, Gasco MR & Eandi M** Gastrointestinal absorption of tobramicin incorporated in solid lipid nanoparticles

253P **Giovannini L, Migliori M, Origlia N, Longoni B, Panichi V, Filippi C, Bertelli AAE & Bertelli A** Acute cyclosporine A nephrotoxicity: protective effect of L-propionylcarnitine on lipid peroxidation in rat isolated and perfused kidney (IPRK)

254P **Smith M & Johns EJ** The protective effect of NO-aspirin on haemodynamics following ischaemia-reperfusion injury to the kidneys of anaesthetized rats

DEMONSTRATION

255P **Dewhurst DG, Brain S & Broadhurst J** A computer simulation of experiments to demonstrate the effects of pharmacological agents on the cutaneous inflammatory response in the anaesthetised rabbit to undergraduate students

ABSTRACTS FROM SYMPOSIA PRESENTED AT THE MEETING

Abstracts from symposia have not been subjected to the refereeing process undergone by the other communications presented at the meeting

'THE PHARMACOLOGY OF APOPTOSIS'

Monday 18 December 2000

256P **Sloviter R** An introduction to apoptosis: a picture is worth a thousand words

257P **Dive C, Griffiths G, Corfe B, Makin G & Hickman JA** The role of the Bcl-2 family proteins in integrating signals generated by drug-induced cellular damage

258P **Ng G** Molecular role of caspases in apoptotic cell suicide and human disease pathogenesis

259P **Bagetta G & Corasaniti TM** Mechanism of apoptosis induced by the HIV coat protein gp120 in the brain of rat

'THE SIGNIFICANCE OF RECEPTOR PROTEIN:PROTEIN INTERACTION'

Monday 18 December 2000

260P **McIlhenney RAJ, Chan WY, Soloviev MM & Ciruela F** The role of protein-protein interactions in the targeting of metabotropic glutamate receptors

261P **Gardoni F, Schrama LH, Kamal A, Gispen WH, Cattabeni F & Di Luca M** Competitive binding of αCaMKII and PSD-95 to the NR2A C-terminal domain

262P **Betz H, Laube B, Evers E, Fuhrmann J, Hermann A, Grosskreutz Y & Kneussel M** Glycine receptors, $GABA_A$ receptors and gephyrin: protein interactions at inhibitory synapses

263P **Barnes NM, Brady CA, Dawlatly S, Lin L, Williams JM & Hope AG** The pharmacological significance of protein-protein interactions

'NEUROPEPTIDE RECEPTORS AND THEIR LIGANDS: LATEST DEVELOPMENTS'

Tuesday 19 December 2000

264P **Langlois X, Jurzak M, Leysen JE, Ashton D, Meert T & Grigoriadis DE** Preclinical pharmacology of R121919, a CRF1 receptor antagonist

265P **Upton N** Emerging role of the orexin ligand-receptor system in modulating arousal and behaviour

266P **Bader M** Functional analysis of the kallikrein-kinin system in transgenic animal models

267P **Schindler M** The role of CGRP and CGRP antagonists in migraine

'DOPAMINE FUNCTION IN THE BASAL GANGLIA: NEW PERSPECTIVES'

Tuesday 19 December 2000

268P **Snyder GL, Yan Z, Galdi S, Allen PB, Fienberg AA, Bibb JA, Huganir RL, Nairn AC & Greengard P** A D1-receptor/PKA/DARPP-32/PP1 pathway regulates AMPA receptor phosphorylation and conductance in the neostriatum

269P **Calabresi P, Gubellini P, Cenonze D, Picconi B, Bernardi G, Chergui K, Fienberg AA & Greengard P** Stimulation of D1/PKA/DARPP-32/PP1 pathway is required for corticostriatal LTD and LTP

270P **Surmeier DJ** The dopaminergic modulation of striatal excitability is state-dependent: new insights into old paradoxes

271P **Hagan JJ** Dopamine D_3 receptors: pharmacology and potential therapeutic applications

'NEW TRENDS IN ACADEMIC-INDUSTRIAL RELATIONS IN DRUG DISCOVERY'

Wednesday 20 December 2000

272P **Sirtori CR** From a scientific finding to an industrial project

273P **Rowland M** New safe medicines faster: a EUFEPS-led proposal for EU 6th framework programmer

274P **Ongini E** The biomedical science park: a stimulating environment in which to foster interactions between academia and industry

275P **Skingle M** Leveraging technology through academic-industrial collaborations

276P **Lorenzetti R** The Consorzio Roberto Lepetit for the Development of Biotechnology: new impulse to academia and industry collaboration