

ORAL COMMUNICATIONS

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

- 1P **Davie CS, Challiss RAJ, Standen NB & Boyle JP** Characterisation of K⁺ channels present in intact fragments of rat cerebral arterioles
- 2P **Cicala C, Morello S, Harriot P & Cirino G** PAR1 and PAR2 modulate blood pressure in anaesthetised rats
- 3P **Murphy TV, Spurrell BE & Hill MA** Tyrosine phosphorylation and myogenic responses in arterioles
- 4P **White PJ, Kumari R, Poster KE, London NJM & Boarder MR** ATP and PDGF stimulate proliferation differentially in vascular smooth muscle cells from the human saphenous vein and internal mammary artery
- 5P **Paiva MQ, Morato M, Moura D & Guimarães S** Post-junctional α_2 -adrenoceptor subtypes in dog and rat veins
- 6P **Almeida L, Morgadinho MT, Fontes Ribeiro CA, Cabrita S, Matos Beja ML & Teixeira F** Cholesterol diet and arterial noradrenaline content
- 7P **Pinheiro H, Vaz-da-Silva MJ, Magina S, Moura D & Guimarães S** Effect of bradykinin and angiotensin II on noradrenaline release from the rat ventricle
- 8P **Dashwood MR, Jagroop IA, Gorog D & Bagger P** A potential role for endothelin-1 in peripheral vascular disease
- 9P **Curtis TM & Scholfield CN** Endothelin blocks L-type calcium channels in microvascular smooth muscle of the rabbit choroid
- 10P **Corder R, Khan N, Wood EG, Lees DM & Barker S** Effect of calcium channel blockers on basal and tumour necrosis factor α -stimulated endothelin-1 synthesis in bovine aortic endothelial cells
- 11P **Kengatharan M, Habens F, Corder R, Änggård EE & Varrier MJ** Comparison of the effect of a peptidoglycan fragment and lipopolysaccharide on nitrite production in J7.DEF3 macrophage cells *in vitro*
- 12P **Paul A, Torrie L & Plevin R** Inhibition of LPS-stimulated N κ B signalling and iNOS induction in raw 264.7 macrophages by the tyrosine phosphatase inhibitor pervanadate
- 13P **Allldridge LC, Plevin RJ & Bryant CE** Effects of lipocortin-1 on mitogen-activated protein kinases
- 14P **Fashola E, Paul A, Strange PG & Plevin R** Dissociation of 5-HT_{1A} receptor-stimulated MAP kinase activity and DNA synthesis in transfected CHO cells
- 15P **Paul A, Wilson S & Plevin R** Inhibition of inhibitory kappa B kinase enhances lipopolysaccharide stimulation of SAP kinases in rat aortic smooth muscle cells
- 16P **Cancela JM, Churchill GC & Galione A** Co-ordination of agonist-induced calcium signalling patterns by NAADP in pancreatic acinar cells
- 17P **Cunha RA, Malva JO & Ribeiro JA** Kainate receptors coupled to G_i/G_o proteins in the rat hippocampus
- 18P **Scott AC & Hill SJ** Visualization and properties of two N-terminal epitope-tagged human H₁ histamine receptors
- 19P **Zeng B-Y, Dass B, Owen A, Rose S, Cannizzaro C, Tel BC & Jenner P** Chronic L-DOPA administration increases secretogranin II mRNA expression in the dopamine depleted striatum and nucleus accumbens of 6-OHDA-lesioned rats
- 20P **Parada A, Borges N, Vieira-Coelho MA & Soares-da-Silva P** Effect of brain catechol-O-methyltransferase inhibition by tolcapone on amphetamine-induced behaviour in the rat
- 21P **Routledge C, Price G, Bromidge SM, Moss SF, Newman H, Riley G, Gager T, Brown AM, Lightowler S & Middlemiss DN** Characterisation of SB-271046, a potent and selective 5-HT₆ receptor antagonist
- 22P **Rogers DC, Robinson TL, Quilter CA, Hunter AJ, Routledge C & Hagan JJ** Cognitive enhancement effects of the selective 5-HT₆ antagonist SB-271046
- 23P **Hirst WD, Minton JAL, Bromidge SM, Routledge C, Middlemiss DN & Price GW** [¹²⁵I]SB-258585 - a selective antagonist radioligand for 5-HT₆ receptors
- 24P **Treseder SA, Rose S & Jenner P** The central dopa decarboxylase inhibitor, NSD-1015, does not prevent L-DOPA-induced circling behaviour in 6OHDA-lesioned rats
- 25P **Dixon CJ, Woods NM & Green AK** Evidence that P2Y₁ and P2Y₂ receptors regulate calcium oscillations in single hepatocytes
- 26P **Willets JM, Parent J-L, Benovic JL & Kelly E** Reduced expression of GRK2 in NG108-15 cells leads to a specific reduction in adenosine receptor desensitization
- 27P **Costenla AR, de Mendonça A, Sebastião AM & Ribeiro JA** 2-Chloroadenosine inhibits NMDA currents in rat cultured bipolar retina cells
- 28P **Cunha RA & Ribeiro JA** Increase in the number, G-protein coupling and efficiency of adenosine A_{2A} receptors in the cortex of aged rats
- 29P **Lopes LV, Cunha RA & Ribeiro JA** Cross-talk between A₁/A_{2A} adenosine receptors in the rat hippocampus and cortex
- 30P **Cunha Reis D, Sebastião AM & Ribeiro JA** Adenosine modulates the neuromodulatory action of VIP on [³H]-GABA release from rat hippocampal synaptosomes
- 31P **Alves-Rodrigues A, Leurs R, Panula P & Timmerman H** Age-related changes in the histamine H₃-receptor of the rat brain
- 32P **Coelho JE, de Mendonça A & Ribeiro JA** Contribution of muscarinic and α_2 -adrenergic receptors to the depression of synaptic transmission induced by hypoxia
- 33P **Zacharowski K, Hafner G, Marsh HC & Thiemermann C** Effects of sCR1 on Troponin T release and on the infarct size following regional myocardial ischaemia and reperfusion in the anaesthetised rat

- 34P **Zacharowski K & Thiernemann C** Pretreatment with endotoxin reduces myocardial infarct size in the anaesthetised rat
- 35P **Mota-Filipe H, McDonald M & Thiernemann C** The stable nitroxide radical tempol attenuates the multiple organ dysfunction caused by haemorrhagic shock in the rat
- 36P **Iuvone T, D'Acquisito F, Carnuccio R & Herman AG** Involvement of mast cell degeneration in LPS-induced plasma leakage in rat skin
- 37P **Macedo MP, Takayama S, Legare DJ & Lutt WW** Parasympathetic nerves facilitate insulin action in the post-prandial state
- 38P **Slough S & Taberner PV** An imidazoline compound (S22954) produces hyperglycaemia in CBA/Ca mice
- 39P **Khan M, Thompson CS, Emsley AM, Mumtaz F, Angelini GD, Mikhailidis DP, Morgan RJ & Jeremy JY** Copper augments the inhibitory effect of homocysteine on relaxation of the rabbit corpus cavernosum: new risk factors for erectile dysfunction
- 40P **Senchyna M, Stallwood N & Crankshaw DJ** Semi-quantitative RT-PCR analysis of excitatory prostanoïd receptor mRNA expression in human non-pregnant myometrium
- 41P **de Boer D, dos Reys LJAL, Pylon N, Gijzels M, Bosman IJ & Maes RAA** Preliminary results on the urinary excretion of 2C-B (4-bromo-2,5-dimethoxyphenethylamine) and its metabolites in humans
- 42P **Hainzl D, Parada A & Soares-da-Silva P** Enantio-selective oxidation of 10,11-dihydro-10-hydroxydibenz/b,f/azepine-5-carboxamide, an active metabolite of oxcarbazepine, in the rat
- 43P **Gomes P & Soares-da-Silva P** Apical L-dopa-Na⁺ cotransport and intracellular pH in OK cells
- 44P **Soares-da-Silva P & Serrão P** Effect of P-glycoprotein substrates and inhibitors on the apical outward transfer of L-DOPA in LLC-PK₁ and LLC-GA5 Col300 renal cells
- 45P **Presland KJ, Doyle KM, Heal DJ, Purcell DJ, Purcell WM & Atterwill CK** Comparison of anoxic and ischaemic damage in a novel organotypic *in vitro* spheroid model of stroke: assessment with lactate dehydrogenase (LDH) and the cytokine tumour necrosis factor alpha (TNFα)
- 46P **Ambrósio AE, Silva AP, Malva JO & Soares-da-Silva P** Inhibition of L-type Ca²⁺ channels by carbamazepine in rat cultured hippocampal neurons stimulated with ionotropic glutamate receptor agonists
- 47P **Meoni P, Uroda M, Bowery BJ & Bowery NG** Binding of [³H]GABA and of [³H]CGP 62349 to the GABA receptor are differentially affected in Alzheimer's disease prefrontal cortex
- 48P **Bailey CP & Jones RSG** NK₂-receptor activation increases spontaneous GABA-release in the rat nucleus tractatus solitarius *in vitro*
- 49P **Cunningham MO, Wood SJ & Jones RSG** Phenytoin enhances spontaneous GABA-mediated inhibition in the rat entorhinal cortex
- 50P **Woodhall GL & Jones RSG** Ifenprodil blocks NMDA autoreceptors in the rat entorhinal cortex *in vitro*
- 51P **Correia-da-Sá P, Timóteo MA & Ribeiro JA** The A_{2A}-adenosine agonist, CGS 21680C, facilitates acetylcholine release by activating L-type calcium currents during prolonged depolarisation of the rat motor nerve terminals
- 52P **Macedo TRA, Pinto CM, Arede S, Morgadinho MT, Pacheco MF, Macedo AM & Fontes Ribeiro CA** Comparative effects of morphine, cocaine and morphine plus cocaine on plasma and brain catecholamines in rats
- 53P **Trout SJ, Brain KL, Dass N & Cunnane TC** Effects of nicotine on intracellular calcium dynamics in sympathetic nerve terminal varicosities
- 54P **Leeson AH, Zamani MR & Bristow DR** Acute histamine exposure induced the phosphorylation of a 58kDa protein in mouse hypothalamic GT1-7 neuronal cells

POSTER COMMUNICATIONS

- 55P **Robinson ESJ, Nutt DJ, Jackson HC & Hudson AL** Uptake of fluorescently labelled antisense to α_{2A/D}-adrenoceptors into rat brain following i.c.v. injection
- 56P **Edwards MM, Jackson HC, Nutt DJ & Hudson AL** Investigation of the affinity of monoamine reuptake inhibitors for rat brain imidazoline 2 binding sites
- 57P **Price RE, Luscombe S, Tyacke RJ, Nutt DJ & Hudson AL** Affinities of β-carbolines for I₂-binding sites in rabbit brain membranes
- 58P **Lalies MD, Wilson J, Robinson ESJ, Nutt DJ & Hudson AL** Unilateral quinolinic acid lesion decreases imidazoline-2 site binding in rat striatum
- 59P **O'Kane EM & Stone TW** Induction of LTP in the CA1 area of rat hippocampus following ATP perfusion
- 60P **Stone TW** ATP responses of interneurons in the rat hippocampus
- 61P **Bennett GC, Ford APDW & Boarder MR** Localisation of P2 receptors on cerebral cortical cell cultures from embryonic rats
- 62P **Pereira MF, Cunha RA & Ribeiro JA** Tonic adenosine neuromodulation is unaltered in motor nerve endings of aged rats
- 63P **Presland KJ, Doyle KM, Heal DJ, Purcell WM & Atterwill CK** Glial and neuronal changes in a potential model of stroke utilising *in vitro* spheroid cultures: a comparative study of anoxia/ischaemia
- 64P **Smith JCE, Watts J & Whitton PS** Acute treatment with clomipramine and the NMDA ion channel antagonist amantadine increases extracellular serotonin in the frontal cortex of the rat
- 65P **Carvalho F, Fernandes E, Remião F, Gomes-da-Silva J, Tavares MA & Bastos ML** Effect of repeated exposure to *d*-amphetamine on endogenous antioxidants in the rat brain
- 66P **Harris NC & Khan D** Gamma-hydroxybutyrate is not potentiated by nipecotic acid
- 67P **Wood SJ, Woodhall GL & Jones RSG** Presynaptic GABA_B receptors control spontaneous GABA release in entorhinal cortical neurones

- 68P **Evans DIP, Woodhall GL & Jones RSG** L-AP4-induced facilitation of glutamate release in layer V of the rat entorhinal cortex *in vitro*
- 69P **Esteban B, O'Shea E, Martinez I, Green AR & Colado MI** Similar brain concentrations of MDMA have different neurotoxic effects following central or peripheral drug administration
- 70P **Colado MI, Esteban B, O'Shea E, Martinez I & Green AR** Effect of 7-nitroindazole on the hypothermia and the striatal dopamine loss induced by MDMA in mice
- 71P **Fowler CE, Beaumont V & Henderson G** Inhibition of calcium channel currents by somatostatin and L362855 in NG108-15 cells
- 72P **Parker CA, Hudson AL, Nutt DJ, Dillon MP, Eglen RM & Crosby J** Tryptophan: a distinct but biologically inactive component of clonidine-displacing substance
- 73P **Crankshaw DJ & Popat A** Estimating the inhibitory potency of prostanoid EP receptor agonists in human non-pregnant myometrium *in vitro*
- 74P **Popat A & Crankshaw D** Bell-shaped concentration-effect curves to excitatory EP receptor agonists in human non-pregnant myometrium *in vitro*
- 75P **Popat A, Subramanian S & Crankshaw DJ** Effect of prolonged treatment with sulprostone on $G\alpha$ protein levels in human non-pregnant myometrium *in vitro*
- 76P **Hannon JP, Tigani B, Mazzoni L & Fozard JR** Mechanism of airway hyperreactivity to adenosine induced by allergen challenge in actively sensitised Brown Norway rats
- 77P **Hannon JP, Tigani B, Mazzoni L & Fozard JR** The receptor mediating the augmented bronchoconstrictor response to adenosine induced by allergen challenge in actively sensitised Brown Norway rats
- 78P **Keir SD, Spina D & Page CP** The effect of subcutaneous chronic infusion with R-, S- and RS-salbutamol on airways responsiveness to histamine, bradykinin and leukotriene C4 in the guinea-pig
- 79P **Charlett A, Dobbs RJ, Dobbs SM, Weller C & Peterson DW** Does *Helicobacter pylori* account for increase in serum interleukin-6 and tumour necrosis factor- α with age, and interleukin-6 and cortisol with parkinsonism?
- 80P **Charlett A, Dobbs RJ, Dobbs SM, Peterson DW & Weller C** Is *Helicobacter pylori* antigen responsible for changes in circulating immunoglobulin associated with ageing?
- 81P **Carmo A, Cunha-Vaz JG, Pato de Carvalho A & Lopes MC** Blood-retina barrier permeability and interleukin-1 β level in retinas from streptozotocin model of diabetic rats
- 82P **Mendes AF, Lopes MC, Caramona MM, Pato Carvalho A & Cruz TF** N-Acetylcysteine, diphenyl-eneiodonium and N-monomethylarginine inhibit IL-1 β -induced NO production in articular chondrocytes: a study of potency
- 83P **Rocha-Pereira P, Rebelo I, Santos-Silva A, Figueiredo A, Ferra MA, Quintanilha A & Teixeira F** Leukocyte activation and oxidative stress in psoriasis
- 84P **al-Swayeh OA, Clifford R & Moore PK** Anti-oedema and antinociceptive effect of nitroprednisone and nitroflurbiprofen
- 85P **Sharma SC & Scott K** Effect of grapefruit juice on urinary excretion of salicylates
- 86P **Falcão AC, Almeida AM & Caramona MM** Kinetic profile of theophylline in critically ill patients: assessment of their inter- and intra-individual variability
- 87P **Calhau C, Martel F, Hipólito-Reis C & Azecedo I** Effect of P-glycoprotein modulators on alkaline phosphatase activity in rat cultured hepatocytes
- 88P **Martel F, Ribeiro L, Calhau C & Azevedo I** Characterization of the efflux of the organic cation MPP in rat cultured hepatocytes
- 89P **Dewhurst DG & Hughes IE** The pharma-CAL-ogy project: is there life after death?
- 90P **Reis F, Tavares P & Teixeira F** Platelet aggregation, calcium and serotonin in cyclosporin A-induced hypertensive rats
- 91P **Jagroop IA & Mikhailidis DP** Doxazosin, a selective α_1 -adrenoceptor antagonist, also inhibits serotonin-induced shape change in human platelets
- 92P **Finn DP, Harbuz MS, Nutt DJ & Hudson AL** The effect of idazoxan on corticosterone levels in control and restraint-stressed rats
- 93P **Stewart M, Namper CM, Katugampola SD, McHarg AD & Wallis RM** The binding affinity and functional activity of eletriptan and other 5-HT_{1B/1D} agonists at the human recombinant 5-HT_{1B} and 5-HT_{1D} receptors
- 94P **Hinton JM, Hill PB & Garland CJ** Involvement of protein kinase C (PKC) in 5-HT_{1B/1D} receptor signalling in the rabbit isolated renal artery
- 95P **Sampson LJ, Plane F & Garland CJ** Modulation of forskolin-evoked relaxation by agents which specifically raise cGMP in rat isolated mesenteric artery
- 96P **Varsani M, MacAllister R, Ahluwalia A & Marshall I** Investigation of the α_1 adrenoceptor subtype(s) mediating contraction in the human internal mammary artery
- 97P **Neta C, Fontes Ribeiro CA, Cavadas C, Silva J & Macedo TRA** ATP released by sympathetic stimulation of the human uterine artery: contraction by P2 receptors and inhibition of noradrenaline release through A₁ receptors
- 98P **Walker SD, Edwards G & Weston AH** Characterisation of Kv1.5 expressed in HEK 293 cells: a comparison with native rat pulmonary artery delayed rectifier potassium currents
- 99P **Betts LC, Kato K & Kozlowski RZ** Endothelin-1 and contraction of rat renal arteries
- 100P **Lal H, Williams KI & Woodward B** Chronic hypoxia (CH) augments conversion of big ET-1 and vasoconstrictor response to ET-1 in rat perfused lungs
- 101P **Chatterjee PK & Thiemermann C** The stable nitroxide radical tempol reduces hydrogen peroxide-mediated cellular injury in primary cultures of rat renal proximal tubular cells
- 102P **Chatterjee PK, Zacharowski K & Thiemermann C** The poly (ADP-ribose) synthetase inhibitor 1,5-dihydroxyisoquinoline reduces renal ischaemia-reperfusion injury in the rat *in vivo*
- 103P **Alcobia T, Morais J, Maldonado J, Morais E, Freitas M, Providência L & Teixeira F** Reperfusion therapy and plasma catecholamine levels after acute myocardial infarction

- 104P **Huang WX, Kingsbury MP, Hunter RJ, Turner MA & Sheridan DJ** Evidence of increased endothelium-mediated vasodilatation following chronic aortic constriction
- 105P **Kingsbury MP, Teevan CP, Turner MA & Sheridan DJ** Endothelium-dependent and -independent coronary vasodilator responses are reduced in left ventricular hypertrophy
- 106P **Villa de Brito MT, Duarte Correia JH & Marques MC** Role of endothelium in abnormal vascular response to adenosine in portal hypertension
- 107P **Jiménez R, Dora KA & Garland CJ** A role for K⁺ in relaxation responses to acetylcholine in rabbit isolated arcuate artery
- 108P **Dormer JP & Boyle JP** The modulation of vascular tone in rat pial arterioles *in vitro* by nitric oxide and BK_{Ca}-activation
- 109P **Kelleher S & Keenan AK** Qualitative differences in angiotensin II-mediated modulation of tolerance to denta nonoate and sodium nitroprusside in rat aortic smooth muscle cells
- 110P **Morato M, Albino-Teixeira A, Moura D, Paiva MQ & Guimarães S** Effects of angiotensin II in the mesenteric artery of DPSPX (1,3-dipropyl-8-sulphophenylxanthine)-hypertensive rats
- 111P **Lansdell KA, Fraser S, Gillard NP, Templeton AGB & Patmore L** Comparison of the effects of sotalol on the cardiac action potential recorded in ovine and canine isolated Purkinje fibres
- 112P **Gaspar MN, Fontes Ribeiro CA, Cunha-Vaz JG & Macedo TRA** Response of retinal arterioles *in vivo* to sensory neuropeptides in the rabbit
- 113P **McLean P, Perretti M & Ahluwalia A** The involvement of kinin B1 receptors in the hypotensive response to endotoxin in rats
- 114P **Diniz C, Fresco P, Queiroz G & Gonçalves J** Influence of α_2 -autoreceptor blockade on the A_{2A}-mediated facilitation of noradrenaline release in rat isolated tail artery
- 115P **Queiroz G, Diniz C, Fresco P & Gonçalves J** Facilitation by adenosine of noradrenaline release in rat isolated vas deferens is prevented by blockade of α_2 -autoreceptors
- 116P **Pinto R, Vieira C & Silva Lima B** Role of L-NOARG pathway in the rat vas deferens induced contractility by noradrenaline and phenylephrine
- 117P **Burt RP, Chapple CR & Marshall I** Noradrenaline releases Ca²⁺ from ryanodine-sensitive intracellular stores in rat isolated epididymal vas deferens which can be filled by a high K⁺ Krebs solution
- 118P **Khan M, Thompson CS, Mumtaz F, Mikhailidis DP, Morgan RJ & Dashwood M** Time-dependent up-regulation of neuronal 5-hydroxytryptamine binding sites in the detrusor of a rabbit model of partial bladder outlet obstruction
- 119P **Harrison S, Page CP & Spina D** Role of protein kinase G on excitatory NANC contractions in guinea-pig isolated bronchus
- 120P **Macedo MP, Ramos FD & Lutt WW** Characterisation of the parasympathetic dependent release of an hepatic insulin sensitizing substance (HISS) in the rat
- 121P **Javid FA & Naylor RJ** Investigation of the effect of 5-hydroxytryptamine as an emetic and anti-emetic agent in *Suncus murinus* (musk shrew)
- 122P **Javid FA & Naylor RJ** Investigation of tachyphylaxis to DOI-induced contraction in the proximal region of the *Suncus murinus* (musk shrew) intestine
- 123P **Fresco P, Saraiva L, Oliveira J, Cortada A, Pinto E & Gonçalves J** Structure-activity studies of phorbol ester compounds on PKC-activation using an *in vivo* phenotypic yeast assay: influence of substituents at C-12 and C-13
- 124P **Oliveira J, Saraiva L, Fresco P, Pinto E & Gonçalves J** Chelerythrine reverts the phenotypic effects of PKC α activation on an *in vivo* yeast phenotypic assay
- 125P **Sampaio Maia MB, Fomes R & Soares-da-Silva P** P-glycoprotein phosphorylation/dephosphorylation and cellular accumulation of L-DOPA
- 126P **Cavadas C, Cotrim MD, Mosimann F, Fontes Ribeiro CA & Grouzmann E** Neuropeptide Y release and receptors in human chromaffin cells
- 127P **Saunders R, Challiss RAJ & Nahorski SR** Extracellular Ca²⁺ modulates agonist-stimulated phosphoinositide signalling in Chinese hamster ovary cells inducibly expressing human recombinant mGluR1 α
- 128P **Wray D, Young B, Edwards J, Milligan CJ, Leicher T & Pongs O** A domain in the potassium channel β_3 subunit involved in lack of inactivation in oocytes
- 129P **Phillips MA, Szabadi E, Bradshaw CM, Langley RW & Bitsios P** Effects of reboxetine, fluvoxamine and amitriptyline upon spontaneous pupillary fluctuations in healthy human volunteers
- 130P **Phillips MA, Langley RW, Bitsios P, Bradshaw CM & Szabadi E** The effects of some antidepressants on prepulse inhibition of the acoustic startle reflex in man
- 131P **Stein T, Routledge C & Upton N** Anticonvulsant properties of the selective 5-HT₆ receptor antagonist SB-271046 in the rat maximal electroshock seizure threshold test
- 132P **O'Callaghan M, Cole JC & Little HJ** Effects of vehicle injections on the preference of C57 strain mice for alcohol

**ABSTRACTS FROM A SYMPOSIUM ON
'CATECHOLAMINES'**

Thursday 8 April 1999

- 133P **McGrath JC, Mackenzie JF & Daly CJ** Sub-cellular localisation of α_1 -adrenoceptors in live cells and tissues
- 134P **Hudson AL, Robinson ESJ, Lallies MD & Nutt DJ** An antisense approach to the pharmacology of the $\alpha_{2A/D}$ -adrenoceptor in the rat
- 135P **Moura D, Paiva MQ & Guimarães S** Prejunctional effects of angiotensin II and bradykinin in the heart and blood vessels
- 136P **Bönisch H, Runkel F, Brüss M, Roubert C & Giros B** The role of certain amino acids for the function of the desipramine-sensitive noradrenaline transporter
- 137P **Broadley KJ** Are β_1 - and β_2 -adrenoceptor-mediated functional responses differentially desensitized: a role for phosphodiesterase?

**ABSTRACTS FROM A SYMPOSIUM ON
'PURINES AS MODULATORS OF SYNAPTIC AND
NEUROEFFECTOR TRANSMISSION'**

Friday 9 April 1999

- 138P **de Mendonça A, Costenla AR & Ribeiro J** Adenosine modulates phenomena of synaptic plasticity in the hippocampus of old rats
- 139P **Richardson P** Striatal adenosine receptors and Parkinson's disease
- 140P **Sebastiao AM, Macedo MP, Cunha-Reis D & Ribeiro JA** Tonic activation of adenosine A_1 and A_{2A} receptors modulates facilitatory actions of neuropeptides on transmission in the rat hippocampus
- 141P **Stone TW, O'Kane EM & Nikbakht M-R** Purine receptor interactions and nucleotide effects in rat hippocampus
- 142P **Santos PF, Carvalho AP & Duarte CB** Adenosine modulates differentially the release of ACh and GABA in cultures enriched in amacrine-like neurons
- 143P **Kennedy C** Characteristics of human P2Y receptor subtypes