

## ORAL COMMUNICATIONS

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

- 1P **Evans SM & Whittle BJR** Role of bacteria and endotoxin in nitric oxide synthase induction and rat intestinal injury provoked by non-steroid anti-inflammatory agents
- 2P **Kengatharan M, De Kimpe SJ & Thiemermann C** Pretreatment with dexamethasone or delayed treatment with aminoguanidine ameliorates the circulatory failure and organ injury in a rat model of Gram-positive shock
- 3P **De Kimpe SJ, Carrier MJ & Änggård EE** Expression of low density lipoprotein scavenger receptors in differentiated THP-1 macrophages
- 4P **Ruetten H & Thiemermann C** Inhibition by interleukin-13 of the expression of inducible nitric oxide synthase in macrophages and vascular smooth muscle
- 5P **Kengatharan M, De Kimpe SJ, Thiemermann C & Vane JR** A peptidoglycan fragment synergises with lipoteichoic acid to induce nitrite formation in macrophages
- 6P **Paul A, Bryant CM, Lawson MF, Chilvers ER & Plevin R** LPS inhibits DNA synthesis in macrophages and vascular smooth muscle cells by a mechanism independent of NOS induction
- 7P **Paul A, Cuenda A, Bryant CM, Gould GW, Cohen P & Plevin R** Dissociation of LPS-stimulated MAP kinase activation and nitric oxide synthase induction in RAW 264.7 macrophages
- 8P **Murray J, Kitchen E & Chilvers ER** The pro-apoptotic effect of TNF $\alpha$  in human neutrophils is mediated via the TNF CD120b (p75) receptor
- 9P **Matthews JS, Key BJ & Keen M** The effect of exposure to SIN-1 on cyclooxygenase activity and expression in bovine aortic endothelial cells
- 10P **Parkinson L, Symonds HW & Bowmer CJ** *In vitro* binding of [ $^{14}$ C]-sulphamethazine to chicken liver microsomes
- 11P **Gundkalli P, Markham A & Boachie-Ansah G** The antiarrhythmic effects of ischaemic myocardial preconditioning: a role for protein kinase C?
- 12P **Becker K & Brodde O-E** Endothelin- and U 46619-induced inositol phosphate formation is reduced in the kidney of spontaneously hypertensive rats
- 13P **Hiley CR, Bottrill FE, Otley CE & Richardson PJ** A $_1$  and A $_2$  adenosine receptor-mediated vasodilatation in the guinea-pig coronary arterial bed
- 14P **Le Monnier de Gouville AC, Coste H & Delpy E** cGMP-elevating agents potentiate isoproterenol effects in rat aortic smooth muscle: role of PDE 3
- 15P **Plane F & Garland CJ** Mechanisms for endothelium-dependent relaxation in rat isolated mesenteric artery: variation with contractile agonist
- 16P **Pickkers P, Garcha R, Schachter M & Hughes AD** Action of thiazides and inhibitors of carbonic anhydrase on tone of guinea-pig isolated small mesenteric arteries
- 17P **Mundell SJ, Smith S & Kelly E** Evidence for coexistence and desensitisation of A $_2$  adenosine receptor subtypes in NG108-15 cells
- 18P **Miller KJ, Michel AD, Buell G, Lündstrom K & Humphrey PPA** Direct labelling of P2X $_3$  and P2X $_4$  purinoceptors using [ $^{35}$ S]ATP $\gamma$ S
- 19P **Michel AD, Miller KJ & Humphrey PPA** Evidence for allosteric effects of antagonists at the P2X $_4$  purinoceptor labelled using [ $^{35}$ S]ATP $\gamma$ S
- 20P **Boarder MR, Brown C & Patel V** Requirements for both protein kinase C and mitogen-activated protein kinase activities for P $_2$ -purinergic stimulation of endothelial prostacyclin production
- 21P **Robinson CMJ, McLees A, Gould GW & Plevin R** MAP kinase antisense phosphorothioate deoxy-oligonucleotides inhibit PDGF-stimulated DNA synthesis in rat aortic smooth muscle
- 22P **Plevin R, Scott PH, McLees A & Gould GW** The MAP kinase kinase inhibitor PD098059 prevents PDGF-stimulated DNA synthesis in rat aortic smooth muscle cells
- 23P **Wilkie N, Ng LL & Boarder MR** Angiotensin II-stimulated phosphorylation of mitogen-activated protein kinases in SHR- and WKY-derived vascular smooth muscle cells
- 24P **Stuart JA & Nahorski SR** Agonist-stimulated diacylglycerol accumulation and protein kinase C isoform translocation in CHO cells expressing recombinant muscarinic receptors
- 25P **Wilkinson GF, Feniuk W & Humphrey PPA** Desensitisation of somatostatin-induced intracellular calcium increases following human recombinant sst $_5$  receptor activation
- 26P **Koenig JA, Kaur R, Edwardson JM & Humphrey PPA** Somatostatin receptors in Neuro2A neuroblastoma cells: pharmacological characterisation and internalisation of [ $^{125}$ I]-BIM-23027, a somatostatin analogue
- 27P **Hirst RA, Devi LA & Lambert DG** Is the C-terminus of the recombinant  $\delta$ -opioid receptor important for adenylyl cyclase coupling
- 28P **Smart DA, Devi LA & Lambert DG** Is the C-terminus of the recombinant  $\delta$ -opioid receptor important for phospholipase C coupling
- 29P **Ford APDW, Daniels DV, Chang DJ, Diaz MR, Gever JR, Jasper JR, Lesnick JD & Clarke DE** The putative A $_{1L}$  receptor (AR): a distinct pharmacological state of the  $\alpha_{1A}$ -adrenoceptor?
- 30P **Fletcher S & Barnes NM** Purification and characterisation of central porcine 5-HT $_3$  receptors
- 31P **Bridson SJ, Leslie RA & Elliott JM** A comparison of 5-HT-stimulated inositol 1,4,5-trisphosphate production mediated by human 5-HT $_{2A}$  and 5-HT $_{2C}$  receptors expressed in SH-SY5Y cells
- 32P **Willars GB, Nahorski SR & Challiss RAJ** Regulation of polyphosphoinositide availability for muscarinic cholinergic signalling in SH-SY5Y neuroblastoma cells

- 33P **Young KW, Gibson WJ, Pinnock RD & Young JM** Histamine and substance P decrease intracellular calcium in thapsigargin-treated human U373 MG astrocytoma cells
- 34P **Carruthers AB, Challiss RAJ & Nahorski SR** Constitutive activity of recombinant type 1 $\alpha$  metabotropic glutamate receptors and inverse agonist activity of phenylglycine analogues
- 35P **Eglen RM, Pulido-Rios M, Webber AP, Leung E & Hegde SS** Characterization of the interaction of darifenacin at muscarinic receptor subtypes *in vitro*
- 36P **Dacquet C, Lahaye C, Renouard A, Lepagnol J & Spedding M** Muscarinic receptor coupling in the hippocampus of old rats
- 37P **Pearce RKB, Banerji T, Jenner P & Marsden CD** Effects of repeated treatment with L-DOPA, bromocriptine and ropinirole in drug naive MPTP-treated common marmosets
- 38P **Banerji T, Pearce RKB, Desai NB, Jackson MJ, Jenner P & Marsden CD** Effects of acute nicotine administration on parkinsonian disability and dyskinesia in MPTP-treated common marmosets
- 39P **Shih M-F, Jelic P & Taberner PV** Circadian variation in ethanol consumption and plasma ethanol levels in mice during chronic treatment
- 40P **Smith JW, Wilson J & Little HJ** Co-administration of the calcium channel antagonist, nimodipine, decreases environmental-independent (context non-specific) tolerance to ethanol
- 41P **Molleman A & Little HJ** Comparison of the effects of calcium channel antagonists on hippocampal calcium currents with their actions on ethanol withdrawal hyperexcitability
- 42P **Obrenovitch TP, Urenjak J & Zilkha E** High extracellular concentrations of glutamate and seizure activity
- 43P **Wigmore MA & Lacey MG** Depression of glutamate input to midbrain dopamine neurones in rat brain slices by metabotropic glutamate receptor agonists
- 44P **Ibbotson T & Boden P** Metabotropic glutamate receptors in rat CA1 neurones: receptor subtype and intracellular mediators
- 45P **Urenjak J, Zilkha E, Gotoh M & Obrenovitch TP** Effect of extracellular acidosis on N-methyl-D-aspartate (NMDA)-evoked responses *in vivo*
- 46P **Sardar AM, Huston PH & Reynolds GP** Glutamatergic deficits in the frontal cortex in AIDS
- 47P **Manuel NA & Wallis DI** Further characterization of the 5-HT receptor mediating spinal monosynaptic reflex depression in the neonate rat
- 48P **Malcangio M, Garrett NE, Bowery NG & Tomlinson DR** Effect of 14-day treatment with nerve growth factor (NGF) on the release of substance P-like immunoreactivity from rat isolated spinal cord
- 49P **Willingale HL & Grubb BD** Evidence that prostaglandins may modulate wind-up in a spinal nociceptive reflex in anaesthetised rats
- 50P **Pinkney JM, Ahluwalia P, Pook PC-K, Jane DE & Watkins JC** An electrophysiological study of 6-azawillardiine derivatives on mammalian spinal neurones
- 51P **Nalivaiko E, Michaud JC, Soubri   P, Le Fur G & Feltz P** Tachykinin responses in different types of neurones of guinea-pig substantia nigra pars compacta *in vitro*

## POSTER COMMUNICATIONS

- 52P **Vaughan PFT, McDonald RL & Peers C** Inhibition of K<sup>+</sup>-evoked [<sup>3</sup>H]noradrenaline release and Ca<sup>2+</sup> currents by angiotensin II in SH-SY5Y cells transfected with the rat angiotensin (AT<sub>1A</sub>) receptor
- 53P **Carpenter E, Gent JP & Peers C** Inhibition of high-voltage activated Ca<sup>2+</sup> channel currents in NG108-15 cells by the  $\kappa$  agonist U50488H does not involve opioid receptor activation
- 54P **Richmond K & Boyle JP** Cyclic AMP and cyclic GMP modulate methacholine-induced calcium influx in bovine tracheal smooth muscle
- 55P **Wayman CP, McFadzean I, Gibson A & Tucker JF** Sodium nitroprusside inhibits the non-selective cation current activated by intracellular calcium store depletion in mouse anococcygeus cells
- 56P **Kelso EJ, Spiers JP, McDermott BJ, Scholfield CN & Silke B** Effects of endothelin (ET) receptor selective and non-selective antagonists on ET-1-inhibited L-type Ca<sup>2+</sup> currents in ventricular cardiomyocytes isolated from rabbit myocardium
- 57P **Wilcox RA & Nahorski SR** Inositol 1,4,5-trisphosphate perfusion produces quantal calcium uptake and release in SH-SY5Y neuroblastoma cells
- 58P **Saunders R, Hussain A, Nahorski SR & Willars GB** Intracellular Ca<sup>2+</sup> responses to bradykinin, methacholine or K<sup>+</sup> depolarization are graded according to stimulus strength in single SH-SY5Y human neuroblastoma cells
- 59P **Anderson SMP, Misra A, De Souza RJ, John VH & Cross AJ** Blockade of neuronal hypoxia-induced [<sup>45</sup>Ca] uptake by Ca<sup>2+</sup> channel antagonists
- 60P **Smythe JW, Murphy D, Timothy C & Costall B** Hippocampal muscarinic receptors modulate anxiety-like behaviour (ALB) in rats tested in the black-white box
- 61P **Timothy C, Costall B & Smythe JW** Repeated exposure to the black-white box decreases sensitivity to scopolamine-induced anxiety-like behaviour (ALB)
- 62P **Cooper DA, Piper DC, Upton N & Leslie RA** The effect of lithium on the hypermotility response to the central administration of ouabain in the rat
- 63P **Murphy D, Costall B & Smythe JW** Yohimbine's anxiogenic effect in the black-white box can be reduced by chlordiazepoxide: confirmation of test validity for rats
- 64P **Smith JW, Willner P & Little HJ** Chronic mild stress induces a decrease in voluntary intake of 10% ethanol in a four bottle choice paradigm

- 65P **Bailey CP, Molleman A & Little HJ** Is there a correlation between the effects of calcium channel antagonists on ethanol withdrawal hyperexcitability *in vivo* and *in vitro*
- 66P **Watson WP, Cole JC, Ripley TL & Little HJ** Acamprosate has actions in the murine elevated plus maze
- 67P **Woodall KL, Domeney AM, Howell AE & Kelly ME** The effect of fluoxetine on social competition and drinking behaviour in the rat
- 68P **Smith JK, Neill JC & Costall B** The effect of social isolation on the behavioural effects of cocaine
- 69P **Ali I & Kelly ME** Haloperidol blocks the acquisition, but not the expression, of cocaine-induced place preference in the mouse
- 70P **Smith AG, Grayson B, Kelly ME & Costall B** Intra-accumbens dopamine infusion combined with haloperidol induces behavioural sensitivity
- 71P **Reavill C, Hatcher JP, Zetterström TSC, Lewis VA, Sanger GJ, Hagan JJ & McKay S** 5-HT<sub>4</sub> receptor antagonism does not affect dopamine-mediated behavioural effects in the rat
- 72P **Davis B, Czudek C & Reynolds GP** Chronic administration of antipsychotics potentiates dopamine release induced by NMDA receptor blockade in rat frontal cortex *in vivo*
- 73P **Bruton RK, Ge J & Barnes NM** The Group 1 metabotropic glutamate receptor agonist DHPG elevates striatal dopamine release in the rat *in vivo*
- 74P **Al-Zahrani SSA, Ho M-Y, Al-Ruwaitea ASA, Bradshaw CM & Szabadi E** Effect of DSP4 on acquisition of temporal discrimination and memory for duration
- 75P **Smith AG, Neill JC & Costall B** 7-OH-DPAT induces reversal learning impairments in the common marmoset
- 76P **Mason K, Heal D & Stanford SC** A microdialysis study of the effect of flurazepam on noradrenaline efflux in the frontal cortex of freely-moving rats after treatment with yohimbine
- 77P **Hughes ZA & Stanford SC** A microdialysis study of the effects of the selective serotonin reuptake inhibitor, fluoxetine, on noradrenaline efflux in rat frontal cortex
- 78P **Gardner CJ, Twissell DJ & Ward P** The broad spectrum anti-emetic activity of the novel non-peptide tachykinin NK<sub>1</sub> receptor antagonist, GR205171
- 79P **Read SJ, Smith MI, Hunter AJ & Parsons AA** Measurement of nitric oxide release using a selective microelectrode following repeated waves of cortical spreading depression
- 80P **Crespi F, Albertini P, Pietra C & Bordi F** Is ascorbic acid a biochemical index of early ischaemia? An *in vivo* electrophysiological and voltammetric study
- 81P **Ellwood AJ & Curtis MJ** The mesulergine-sensitive increase in coronary blood flow evoked by sumatriptan in GR 127935-treated guinea-pig isolated hearts is caused by NO released from coronary endothelium
- 82P **Aleixandre MA, López-Miranda V, Puerro M & Ortega A** Evidence that the central nervous system plays a role in L-NAME-induced hypertension
- 83P **Stanford SJ, Mitchell JA, Bishop-Bailey D, Williams TJ, Williams FM, Petros AJ & Larkin SW** The dilator response to sensory nerve stimulation in the mesenteric circulation of the rat is modulated prejunctionally by nitric oxide
- 84P **Puerro M, López-Miranda V, Ortega A & Aleixandre MA** Possible presynaptic action of nitric oxide on vascular sympathetic nerves
- 85P **Jourdan KB, Curzen NP, Evans TW & Mitchell JA** Nitric oxide compromises the constrictor effects of the non-cyclooxygenase-derived prostanoid, 8-iso prostaglandin F<sub>2α</sub>
- 86P **Kromer BM & Tippins JR** 8-Epi prostaglandin F<sub>2α</sub> is a vasoconstrictor in the rat isolated heart after low flow ischaemia
- 87P **Kromer BM & Tippins JR** Actions of 8-epi prostaglandin F<sub>2α</sub> in porcine coronary artery are inhibited by thromboxane receptor antagonists
- 88P **Amin Z, Clayton JK, Marshall K & Senior J** Comparison of the effects of prostaglandin FP-receptor mimics PGF<sub>2α</sub>, fluprostanol and laranoprost on the human isolated umbilical artery
- 89P **Bretherton N, Richardson AR, Smith JW & Wilson KA** The effect of eicosapentaenoic acid upon contractures of isolated aortic rings and inositol phosphate production in cultured aortic cells from the rat
- 90P **Hide E, Dhein S, Piper J, Gottwald E, Ney P & Thiemermann C** Prostaglandin E<sub>1</sub> protects against reperfusion injury and attenuates endothelial P-selectin expression in a rabbit model of myocardial ischaemia and reperfusion
- 91P **Heneka M, Ruetten H, Thiemermann C & Vane JR** Effects of ibuprofen on haemodynamics, organ injury and dysfunction caused by endotoxin in the rat
- 92P **Ruetten H, Thiemermann C & Vane JR** Effects of selective inhibitors of ETA- and ETB-receptors on haemodynamics and organ injury caused by endotoxin in the rat
- 93P **Kemp PA, Gardiner SM, Bennett T & Rubin PC** Influence of MgSO<sub>4</sub> on the cerebrovascular effects of endothelin-1 in conscious rats
- 94P **Hamilton LC & Warner TD** Endothelin-1 is degraded by an enzyme released from non-endothelial cells
- 95P **Allcock GH & Warner TD** Endothelin-A receptor activation is partially responsible for the acute increase in haematocrit induced by LPS
- 96P **Maddock HL & Broadley KJ** Responses of guinea-pig isolated aorta and pulmonary artery to adenosine receptor agonists in normoxia and hypoxia
- 97P **Barnes CS, Faint RW, Dwyer MC, Critchley DJP, Templeton D, Folkes AJ, Charlton PA & Bevan P** Effects of XR5118 on PAI-1 and tPA activity and arterial thrombus formation in the anaesthetized rat
- 98P **Edwards CM, Heptinstall S & Lowe KC** Effects of the co-polymer, Pluronic F-68, on the response to platelet aggregation agonists in human whole blood *in vitro*

- 99P **Edwards CM, Lowe KC, Röhlke W, Reuter P, Geister U & Meinert H** Dose-dependent inhibition of human blood neutrophils by a perfluorochemical emulsion respiratory gas carrier
- 100P **López-Miranda V, Ortega A, Puerro M & Aleixandre MA** Arterial blood pressure and growth patterns in Sprague-Dawley and spontaneously hypertensive rats fed on calcium-deficient diets
- 101P **Randall MD, Greenhaff PL & Constantin-Teodosiu D** Dichloroacetate increases the threshold for cardiac preconditioning in the rat isolated perfused heart
- 102P **de Silva HA, Carver JG & Aronson JK** Calcium-activated and ATP-dependent potassium channels in human platelets
- 103P **Owen DG, De-Allie FA & Strong PN** Pharmacological characterisation of  $^{86}\text{Rb}^+$  fluxes in CHO cells transfected with the mouse brain voltage-activated  $\text{K}^+$  channel gene,  $\text{mK}_{\text{v}}1.1$  (MK1)
- 104P **Stewart M, Pryke JG, Finn PW, Boyd JG, Lin W, Singleton DH, Andrews GC & Treherne JM** The binding of kalitoxin and margatoxin variants to voltage-gated potassium channels in rat brain
- 105P **Valenzuela C, Delpón E, Franquesa L, Gay P, Snyders D & Tamargo J** Comparative effects of a non-sedating histamine  $\text{H}_1$ -receptor antagonist on human  $\text{Kv}1.5$  channels
- 106P **Holland M, Standen NM & Boyle JP** Nitric oxide activates large conductance potassium channels in rat cerebral artery smooth muscle cells
- 107P **Yeung CK, McCurrie JR & Wood D** Rubidium antagonises the relaxant effect of the potassium channel opener SDZ PCO400 in the mouse ileum
- 108P **Campbell DJ, Rowbotham DJ & Lambert DG** Does halothane affect fentanyl inhibition of adenylyl cyclase in SH-SY5Y cells?
- 109P **Quine L, Carrier MJ & Änggård E** Modulation of inducible nitric oxide synthase by anti-oxidants in the macrophage cell line J774
- 110P **Dwivedi A, Carrier MJ & Änggård E** Reactive oxygen species in  $\text{TNF}_\alpha$ -mediated expression of adhesion molecules in EA.hy 926 cells
- 111P **Jordan CGM, Rashidi MR, Laljee H, Clarke SE, Brown JE & Beedham C** Formation of 7-hydroxymethotrexate from methotrexate with human and guinea-pig aldehyde oxidase
- 112P **Sadeghi-Aliabadi H, Matthew AM & Brown JE** Studies on the chemosensitivity of human cultured MCF-7, MCF-7 ADR and MT-1 breast tumours and K562 leukaemia cell lines to novel steroidal antitumour prodrugs
- 113P **Szekeres PG & Traynor JR** Further characterisation of the mouse  $\delta$ -opioid receptor in NG108-15 cells
- 114P **Kunikowska GM, Jenner P & Marsden CD** The relative distribution of  $\text{Cu/Zn}$  and  $\text{Mn}$  superoxide dismutase in adult rat brain
- 115P **Weston MC & Peachell PT** Effects of phosphodiesterase inhibitors on human lung mast cell and basophil function
- 116P **Ivanova AA & Milenov KT** Modulation of neurotransmission in the guinea-pig vas deferens by somatostatin and neurotensin
- 117P **Hirota K & Lambert DG** Studies on the binding of [ $^{14}\text{C}$ ]thiopentone to rat cerebrocortical membranes
- 118P **Pow E, Muir AW, Sleight T & Hill DR** A muscle-type nicotinic receptor ligand, using whole TE 671 cells, for rapid screening of neuromuscular blocking agents
- 119P **Harris NC, Castro-Lopes JM & Coimbra A** Depression of the rat hamstring flexor reflex by ( $\pm$ )-baclofen and muscimol
- 120P **Eglen RM, Carter DS, Berger J, Clark RD, Bonhaus DW, Leung E & Flippin LA** RS 16566: a novel, high affinity ligand for the (R) zacopride binding site
- 121P **Waugh MG, Nahorski SR & Tobin AB** Agonist-dependent desensitisation of  $\text{m1}$ -muscarinic receptor-mediated inositol polyphosphate responses in Chinese hamster ovary cells
- 122P **Adams D & Garland CJ** 5-hydroxytryptamine-stimulated phospholipase D activity in the rabbit isolated mesenteric artery
- 123P **Murray TK, Misra A, Williams JL, Colado MI & Green AR** Effect of the spin trap reagent PBN on degeneration of 5-HT neurones induced by p-chloroamphetamine or fenfluramine administration
- 124P **Newberry NR, Watkins CJ, Volenec A & Flanagan TP** 5-HT $_{2B}$  receptor mRNA in guinea-pig superior cervical ganglion
- 125P **Summers RJ, Evans BA & Anastasopoulos F**  $\beta_3$ -Adrenoceptors in adipose tissue and gut of genetically obese C57BL/6J (ob/ob) and lean C57BL/6J (+/+) mice
- 126P **McMartin L & Summers RJ** Impaired cyclic AMP signalling in hearts from rats chronically infused with isoprenaline
- 127P **Morrison KJ, Moore RH, Carsrud NDV, Trial J, Millman E, Dickey BF & Knoll BJ** Kinetic analyses of internalization and recycling of the human  $\beta_2$ -adrenoceptor
- 128P **Cousin JM, Haslett C & Rossi AG** Divergent effects of agents that increase intracellular  $\text{Ca}^{2+}$  on human eosinophil and neutrophil apoptosis
- 129P **Mecklenburgh KI, Greening A & Chilvers ER** Inhibition of human neutrophil apoptosis by hypoxia is mediated by a ferro-protein sensor
- 130P **Warburton SPM, Duce IR & Lees G** A single voltage sensitive calcium channel type underlies the inward current in the skeletal muscle fibres of pre-pupal housefly larvae
- 131P **Kelso EJ, McDermott BJ, Silke B & Spiers JP** Contractile effects of endothelin-1 and endothelin-3, mediated by  $\text{ET}_\text{A}$  and  $\text{ET}_\text{B}$  receptor subtypes, in ventricular cardiomyocytes isolated from rabbit myocardium
- 132P **Albert J, Gubby S, Boyle J & Boarder MR** Studies on  $\text{P}_2$  purinoceptors, histamine receptors and endothelin receptors on primary and passaged rat brain endothelial cells
- 133P **Patel V, Wilkie N & Boarder MR** Endothelial  $\text{P}_{2Y}$ - and  $\text{P}_{2U}$ -purinoceptors phosphorylate and activate mitogen-activated protein kinases: studies with a novel kinase assay and immunoblot

- 134P **Sangameswaran L, Delgado SG, Fish LM, Koch BD, Jakeman LB, Steward GR, Sze P, Hunter JC, Eglen RM & Herman RC** Structure and function of anovel voltage-gated, tetrodotoxin-resistant sodium channel specific to sensory neurons
- 135P **Babaei H, Evans AT, Irving G & McCurrie JR** Comparison of relaxant properties of oestrogens and bisindolylmaleimide, a selective inhibitor of protein kinase C, in isolated rat aorta
- 136P **Sudan, Needham PL & Heal DJ** Effects of haloperidol on excitatory and inhibitory amino acid receptors expressed in *Xenopus* oocytes injected with rat brain RNA
- 137P **Carruthers AM, Mistry R, Nahorski SR & Challiss RAJ** Pertussis toxin enhances phosphoinositide signalling in baby hamster kidney (BHK) cells expressing recombinant type 1 $\alpha$  metabotropic glutamate receptors
- 138P **Elliott P, Foster GA, Stringer BMJ & Wallis DI** Glutamatergic and glycinergic postsynaptic potentials in primary cultures of rat motoneurons
- 139P **Carroll MA, Huang D-D, McGiff JC, Nguyen X & Quilley J** Dexamethasone induces renal cytochrome P450-dependent nitric oxide and eicosanoid formation in the rabbit
- 140P **Formento ML, Sala V, Di Blasi P, Bernareggi A & Ceserani R** Possible biochemical mechanisms involved in cardiotoxicity: a comparison between BBR 2778, a novel non-cardiotoxic compound, mitoxantrone and doxorubicin
- 141P **George SE, Bungay PJ & Naylor LH** Characterisation of a cAMP-responsive reporter CHO cell line using endogenous receptors
- 142P **Kelly ME & Benovic JL** Stable expression of G-protein coupled receptor kinase 2 dominant negative mutant (GRK2 DNM) in NG108-15 cells
- 143P **Pipelzadeh MH & Naylor I** The response of intact and damaged fasciae to potassium and calcium ions
- 144P **Sawyer PJT, McRitchie B, Merner PA, Slowe SJ & Wallis RM** In vivo gut selectivity of the novel muscarinic antagonist, darifenacin, in the conscious dog
- 145P **Hegde SS, Briaud S, Loeb M, Moy TB, Clarke DE & Eglen RM** Role of M<sub>2</sub> and M<sub>3</sub> muscarinic receptors in mediating reflex bladder contractions in the anaesthetised rat
- 146P **Warhurst DA & Court EN** The effect of platelet activating factor (PAF) on the responsiveness of rat and guinea-pig isolated tracheal strips to acetylcholine and prostaglandin F<sub>2 $\alpha$</sub>
- 147P **Morton MJ, Gould J, Sivaprasadarao A, Bowmer CJ & Yates MS** Renal A<sub>1</sub> adenosine receptor mRNA levels during the development of acute renal failure
- 148P **Mustafa S, Pilcher CWT & Williams KI** The effect of cooling on ovine tracheal and bronchiolar smooth muscle
- 149P **Long CJ, Salmon GP, Holmes K, Barclay PL & Collis MG** Inhibition of interstitial collagenase and gelatinase does not affect intimal thickening in the balloon catheter-injured rat carotid artery
- 150P **Piotrowski W & Brice S** (S)-N<sup>5</sup>-(1-Iminoethyl)-ornithine and aminoguanidine effects on electrical field-induced non-adrenergic, non-cholinergic responses of guinea-pig isolated taenia caeci
- 151P **Alfieri AB, Gardner CJ & Twissell DJ** Dexamethasone enhances GR205171 inhibition of cytotoxic-induced plasma protein extravasation in ferrets
- 152P **Jones CA, Reeves JJ, Sheehan MJ & Whelan CJ** Adenosine A<sub>3</sub> receptors mediate a mast cell-dependent plasma protein extravasation in rat skin
- 153P **Ballard SA, Turner LA & Naylor AM** Sildenafil, a potent selective inhibitor of type 5 phosphodiesterase, enhances nitric oxide-dependent relaxation of rabbit corpus cavernosum
- 154P **Tang K, Turner LA, Ballard SA & Naylor AM** Effects of the novel phosphodiesterase type 5 inhibitor, sildenafil, on methacholine-induced relaxation of rabbit isolated corpus cavernosum

## DEMONSTRATIONS

- 155P **Dewhurst DG, Brain SD, Freeman P & Ulyott RG** The pathophysiology and pharmacology of inflammation: an interactive, computer-based tutorial program for undergraduate students
- 156P **Dewhurst DG & Johnson M** A computer-based, interactive tutorial to introduce the clinical aspects of pain to undergraduate students

## CONTRIBUTIONS BY TITLE ONLY

- 157P **Le Monnier de Gouville AC & Delpy E** Cardiovascular profile of a new potent and selective PDE 5 inhibitor: DMPPO
- 158P **Wijetunge S & Hughes AD** Action of pp60<sup>c-src</sup> on voltage-operated calcium channel currents in voltage-clamped isolated arterial smooth muscle cells