

ORAL COMMUNICATIONS

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

- 225P **Wibberley A, Nunn PA, Naylor AM & Ramage AG** The role of nitric oxide and cGMP in reflex- and DMPP-evoked changes in bladder and urethral pressured in the anaesthetised rat
- 226P **Davies AM, Jones WD, Eardley I & Beech DJ** Expression and functional importance of Kv channels in human bladder smooth muscle
- 227P **Bannister JPA, Young BA, Sivaprasadarao A & Wray D** Mutations of conserved extracellular cysteine residues in the inwardly rectifying potassium channel Kir2.3
- 228P **Snowball RK, Williams TJ, Ford APDW & Ramage AG** The role of 5-HT_{1A} receptors and α_1 -adrenoceptors in the control of the "micturition reflex" in the anaesthetized male rat
- 229P **Smith JA, Bowmer CJ & Yates MS** Distribution of renal adenosine A₁ receptors: effect of dietary sodium chloride
- 230P **Liu M, Dunn PM, King BF & Burnstock G** Adrenal chromaffin cells of guinea-pig, but not rat, express an ATP-gated ion channel similar to the P2X₂ phenotype
- 231P **King BF, Liu M, Pintor J, Gualix J, Miras-Portugal MT & Burnstock G** Antagonism of rP2X₁ and rP2X₃ receptors by diinosine polyphosphates
- 232P **Thomas DR, Bromidge SM, Hagan JJ, Middlemiss DN & Price GW** SB-269970 is a potent and selective antagonist at human cloned and guinea-pig brain 5-HT₇ receptors
- 233P **Price GW, Atkinson PJ, Ho M, Bromidge SM, Hagan JJ, Middlemiss DN & Thomas DR** [³H]-SB-269970: a selective antagonist radioligand for 5-HT₇ receptors
- 234P **Bryan-Lluka LJ, Boyd SM & Papacostas MH** Thyroxine causes cell type-dependent regulation of the serotonin and noradrenaline transporters
- 235P **Field MJ, McCleary S & Singh L** The gabapentin analogue 3-methyl-gabapentin blocks both static and dynamic components of mechanical allodynia in a rat model of neuropathic pain
- 236P **Asghar AUR, Bird GC, Batten TFC & King AE** Glutamate transporters and modulation of primary afferent-mediated synaptic transmission in the rat spinal dorsal horn *in vitro*
- 237P **Ramsden M, Henderson Z & Pearson H** Alterations in neuronal ion channel activity by amyloid β protein that are not associated with neurotoxicity
- 238P **Fearon IM, Ball SG & Peers C** Clotrimazole inhibition of human recombinant cardiac L-type Ca²⁺ channel α_{1C} subunits stably expressed
- 239P **Guibert C, Reynolds EV, Flemming R & Beech DJ** Inhibition of contractile responses by thapsigargin in precapillary arteriolar smooth muscle cells
- 240P **Cheong A & Beech DJ** Ionic currents activated by depolarisation in smooth muscle cells of cerebral precapillary arterioles
- 241P **Woods M, Wood EG, Lees DM, Mitchell JA & Warner TD** A role for NF- κ B in the stimulation by cytokines of endothelin-1 release in human vascular smooth muscle cells
- 242P **Stanford SJ, Pepper JR & Mitchell JA** COX-2 differentially regulates GM-CSF and G-CSF production by human venous smooth muscle cells
- 243P **Price S, Evans TE & Mitchell JA** Endotoxaemia alters inotropic response to iseprenaline in papillary muscles: an effect that is modulated by L-NAME
- 244P **Zacharowski K, Olbrich A, Chatterjee K, Foster SJ & Thiernemann C** ODQ, an inhibitor of soluble guanylyl cyclase, reduces the renal/liver dysfunction/injury in *in vivo* models of Gram-positive and Gram-negative shock in the rat
- 245P **Jeremy JY, del Soldato P, Naseem KM & Angelini GD** Effect of the nitric oxide-aspirin adduct, NCX 4016, on relaxation of the corpus cavernosum and platelet function *in vitro*: potential role in the treatment of erectile dysfunction
- 246P **Zacharowski K, Frank S, Pfeilschifter J & Thiernemann C** Antiserum to tumor necrosis factor or interleukin 1 does not abolish the second window of protection induced by lipoteichoic acid in the rat heart
- 247P **Jordan S, Evans TW & Mitchell J** Oxidative stress acts synergistically with IL-1 β , but not TNF α , to enhance IL-8 release by human pulmonary artery smooth muscle cells
- 248P **Breese EJ, Wood EG, Gray PA, Curtis MJ, Warner TD & Mitchell JA** Effects of disease modifying anti-rheumatic drugs and corticosteroids on prostaglandin E₂ and GMCSF production by cytokine-stimulated human synoviocytes
- 249P **Smailbegovic A, Page CP & Lever R** Effects of heparin upon adhesion of human peripheral blood mononuclear cells to human stimulated umbilical vein cells and adhesion molecule expression *in vitro*
- 250P **Hughes PM, Johnson Z, Okoye R, Gozzard N & Foulkes R** Time course of cellular recruitment and expression of VCAM-1 following inhaled antigen challenge in the neonatally-sensitised rabbit

POSTER COMMUNICATIONS

- 251P **Fraser JL & Coker SJ** Acute and chronic effects of second and third generation progestogens on rat platelet aggregation
- 252P **McDonald RL, Colyer J & Harrison SM** Regional variations in the location of Na-Ca exchanger protein in guinea-pig heart at cellular and tissue levels
- 253P **John NG & Aronson JK** Effects of homocysteine on potassium channels in human platelets
- 254P **Bannister JPA, Main MJ, Sivaprasadarao A & Wray D** Co-expression of domains D1-S4 and S5-S6 of the voltage-gated potassium channel Kv2.1
- 255P **Dibb KM, Leach R, Lancaster MK, Findlay JBC & Boyett MR** Block of the cardiac muscarinic K⁺ channel Kir3.1/Kir3.4 by flufenamic acid
- 256P **Mukerji MS, Leathard HL & Huddart H** Suppressive effects of progesterone on rat portal vein contractility mediated by BK_{Ca} opening
- 257P **Abdelmawla AH, Langley RW, Szabadi E & Bradshaw CM** Are β_1 -adrenoceptors involved in the isoprenaline-evoked dilatation of the human dorsal hand vein?
- 258P **Smith JA, Bowmer CJ & Yates MS** Differential expression of renal adenosine A₁ receptors induced by acute renal failure
- 259P **MacLean MR, Gallacher M, Hillier C, McMurray JV & Petrie MC** Adrenomedullin is an extremely potent vasodilator of human small muscular pulmonary arteries
- 260P **Morecroft I & MacLean MR** Evidence for pharmacological synergism in rat small muscular pulmonary arteries
- 261P **Savineau JP, Pauvert O & Marthan R** Effect of nitric oxide on calcium signalling in vascular myocytes from the rat pulmonary artery
- 262P **Centurión D, Sánchez-López A, Ortiz M, De Vries P, Saxena P & Villalón CM** Role of 5-HT_{1B} and 5-HT₂ receptors in the decreases in internal carotid blood flow induced by 5-HT in the dog
- 263P **Buckley C, Hadoke PWF, Henry E & O'Brien C** Altered balance of endothelium-derived relaxing factors in the acetylcholine-mediated relaxation of subcutaneous resistance arteries isolated from patients with normal pressure glaucoma
- 264P **Buckley C, McIntyre C-A & Hadoke** Heterogeneity of endothelial cell function in vessels isolated from human subcutaneous fat
- 265P **Hadoke PWF, McIntyre C-A, Buckley CH, Jones GC, Elliott AI, McKnight J, Williams BC & Walker BR** Endothelium-dependent potassium chloride-mediated relaxation of human resistance arteries
- 266P **McGinn JS & MacLean MR** Grape skin extract induces both endothelium-dependent and endothelium-independent vasorelaxation in rabbit aorta
- 267P **Keeble J, Clifford R, Deraet M, Munro G, del Soldato P & Moore PK** Vasorelaxant effect of nitroflurbiprofen in rat aorta and kidney
- 268P **Mustafa MR & Johns EJ** Haeme oxygenase induction and the regulation of the rat renal vasculature
- 269P **Stanford SJ, Pepper JR & Mitchell JA** Endogenous GM-CSF modulates COX-2 activity in human venous smooth muscle cells
- 270P **Bailey SR & Cunningham FM** Treatment of equine endothelial cells with substance P induces eosinophil adherence
- 271P **Battram CH, Birrell M, Foster M, Webber SE & Belvisi MG** Comparison of inhaled spasmogen as determinants of airway hyperresponsiveness in a murine model of asthma
- 272P **Rawlingson A, Greenacre S & Brain SD** Detection of nitrated protein in a rat model of local cutaneous thermal injury
- 273P **Holland K, Gozzard N, Owens R & Foulkes R** Fc ϵ RI immunoconjugate inhibits IgE-mediated passive cutaneous anaphylaxis (PCA) in the rat
- 274P **Battu GR, Zeitlin IJ, Gray AI & Waterman PG** Inhibitory actions on rat myeloperoxidase of molecules isolated from anti-inflammatory extracts of *Commiphora kua*
- 275P **Toward TJ & Broadley KJ** Characteristics of airway hyperactivity, cell influx and steroid sensitivity after inhaled LPS in conscious guinea-pigs
- 276P **Martínez-Larrañaga MR, Díaz MJ, Martínez MA, Frejo MT, Martínez M, Fernando-Cruz ML, Tafur M & Anadón A** Changes in cytochrome P450 isoenzymes by new fluoroquinolones
- 277P **Martínez MA, Martínez-Larrañaga MR, Díaz MJ & Anadón A** Testosterone hydroxylases in evaluating induction and inhibition of cytochrome P450 isoenzymes by tilmicosin: comparison with erythromycin
- 278P **Ortells MO & Barrantes GE** Ion channel-channel blocker interactions in the nicotinic acetylcholine receptor
- 279P **Sampaio-Maia MB & Soares-da-Silva P** Apical uptake of L-DOPA by L-type amino acid transporter in Caco-2 cells
- 280P **Sampaio-Maia MB & Soares-da-Silva P** Control of liminal uptake of L-DOPA in human intestinal epithelial Caco-2 cells by Ca²⁺/calmodulin-mediated pathways
- 281P **Hipkins N, Leafe J, Ramsden M, Hooper N & Pearson HA** Effect of stable transfection of pre-senilins on K⁺ channel activity in HEK-293 cell line
- 282P **Tel BC, Cannizzaro C, Pearce RKB, Rose S & Jenner P** Differential effects of ropinirole, bromocriptine and L-DOPA on striatal preprodynorphin mRNA expression in the MPTP-treated marmoset
- 283P **Dawson L, Megalou M & Duty S** Antiparkinsonian potential of the group II mGluR agonist, DCG-IV, following intraventricular administration in the reserpine-treated rat model of Parkinson's disease
- 284P **McNulty S, Lee K, Pinnock RD & Mason S** Primary human astrocytes possess functional bombesin receptors
- 285P **Quirk K, Misra A, Harvey V & Knight AR** The VSV isoform of the human 5-HT_{2C} receptor couples to endogenous G-proteins in CHO cells
- 286P **Atkinson PJ, Thomas DR, Ho M, Bromidge SM, Hagan JJ, Middlemiss DN & Price GW** [³H]-SB-269970 radiolabels 5-HT₇ receptors in guinea-pig cerebral cortex membranes

- 287P **Malcolm CS, Allen NH, Lamb H, Revell D & Porter RHP** Rapid desensitisation of human 5-HT_{2B} receptors measured by fluorimetry: comparison with human 5-HT_{2A} and 5-HT_{2C} VSV and INI receptor isoforms
- 288P **MacDonald E, Viitamaa T, Linden I-B, Haapalinna A & Männistö P** Entacapone, a peripheral COMT inhibitor, improves the central bioavailability of L-DOPA and its ability to increase dopamine levels in rat brain
- 289P **Harvey V, Jones J, Misra A, Quirk K, Shjeardown M, Weiss S & Knight AR** Pharmacology of human recombinant adenosine A_{2A} receptors and rat striatal A_{2A} receptors: possible species differences
- 290P **Harris J, Millns PJ, Kendall DA & Chapman V** The effect of cannabinoid ligands on [³⁵S]GTPγS binding in spinal cord slices of non-inflamed and inflamed rats
- 291P **Carnell AJ, Pitcher T & Singh L** Evaluation of (+)-HA-966 in a rat model of surgical pain
- 292P **Howell O, Attack J, McKernan R & Sur C** Mapping of the α5 subunit containing GABA receptor in the human hippocampus
- 293P **Chadha A, Bonner T, Whiting P, Duty S, McKernan R, Attack J & Sur C** Expression of a novel GABA_A receptor subunit Θ in rat brain
- 294P **Houston AJ, Wong JCL & Ebenezer IS** The effects of the GABA_A receptor agonist muscimol on water intake on rats
- 295P **Ebenezer IS, Parrott RF & Vellucci SV** Effects of acute bupirone on operant food intake in food-deprived and satiated pigs
- 296P **Ebenezer IS** A70104 and food intake in rats: evidence against a role for endogenous peripheral CCK as a satiety factor
- 297P **Wadsworth GC, Weiss SM, Bickerdike MJ & Kennett GA** A pharmacological investigation of motor disturbances induced by mCPP and MK-212 in the rat
- 298P **Green KN, Harris NC & Barnes NM** An investigation into the actions of 5-HT on the rat anococcygeus muscle
- 299P **Wallace P, McFadzen I & Gibson A** The guanylyl cyclase/cGMP system reduces tone but not capacitative calcium influx activated by thapsigargin in mouse anococcygeus cells
- 300P **Taylor SC, Shaw SM & Peers S** Cyanide-evoked quantal catecholamine release from phaeochromocytoma (PC12) cells
- 301P **Barlow RB** A survey of the slopes of concentration-response curves
- 302P **Barlow RB, Bond SM, Grant C, McQueen DS, Smart J & Yaqoob Z** Operational windows make functional antagonism appear independent

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- 303P **Hollingsworth M, Hughes I & Dewhurst D** Implementing technology-based teaching and learning in pharmacology

ABSTRACTS FROM A SYMPOSIUM ON 'ION CHANNELS'

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- 304P **Hofmann F, Lacinova L, Marais E, Hobom M & Klugbauer N** Calcium channels
- 305P **Cuthbert A** Functional role of CFTR chloride channels in airway and gut epithelia
- 306 **North RA** Pharmacology of P2X receptors
- 307 **Vincent A, Beeson D, Newland C, Croxen R, Plested P & Tang T** Involvement of acetylcholine receptors in autoimmune and genetic disorders

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- 309P **Ijzerman A** Molecular analysis of the ligand binding site on the β₂ adrenoceptor
- 310P **Milligan G** Mutational analysis of the interface between receptors and G proteins: implications for pharmacological analysis and ligand nomenclature
- 311P **Mitchell R** A novel interface between G protein-coupled receptors (GPCRs) and small G proteins
- 312P **Gawler D** Role of the Ras GAP C2 domain in the convergence of the heterotrimeric and monomeric G protein