

## ORAL COMMUNICATIONS

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

- 290P **Steward LJ, Boess FG, Steele JA, Phipps BP, Liu D & Martin IL** The importance of the amino acid phenylalanine 107 for function and ligand recognition at the 5-HT<sub>3</sub> receptor
- 291P **Lummis SCR & Fletcher EJ** Functional and binding studies of glycosylation site mutants of 5-HT<sub>3</sub> receptors
- 292P **Hope AG, Belelli D, Peters JA & Lambert JJ** Structural determinants of the antagonist potency of (+)-tubocurarine at recombinant 5-HT<sub>3</sub> receptor subunits
- 293P **Mair ID, Peters JA & Lambert JJ** Pharmacological characterization of a 5-HT<sub>3</sub> receptor subunit derived from rat superior cervical ganglion
- 294P **Rowe ICM & Ashford MLJ** The inhibition of K<sub>ATP</sub> channels in the rat insulinoma cell line CRI-G1 by the intracellular application of purinergic antagonists
- 295P **Caulfield MP, Abogadie FC, Delmas P, Haley JE, Vallis Y & Buckley NJ** Intranuclear injection of selective antisense-generating plasmids shows G-protein G<sub>α12</sub> couples M<sub>1</sub> muscarinic receptors to inhibit M-type K<sup>+</sup> current in rat sympathetic neurones
- 296P **Belelli D, Hill-Venning C, Peters JA, Lambert JJ, Wafford KA & Whiting PJ** The subunit selective actions of the anaesthetic etomidate at human recombinant GABA<sub>A</sub> receptors are determined by a single amino acid
- 297P **Benwell MEM & Balfour DJK** The effect of ABT-418 on mesolimbic dopamine systems and locomotion in the rat
- 298P **McAllister KHM & Pratt JA** Blockade of amphetamine-induced conditioned taste aversions by GR205171
- 299P **Ahtee L, Salminen & O Seppä T** Metabolism of dopamine and expression of Fos protein in striatal and limbic rat brain areas following acute and chronic nicotine
- 300P **Watson WP, Butterworth AR & Little HJ** Investigations into the existence of mice of the C57 strain with a low preference for ethanol, and the modification of such preference
- 301P **Price GW, Burton MJ, Roberts C, Watson J, Duckworth M, Gaster L, Middlemiss DN & Jones BJ** SB 216641 and BRL 15572 pharmacologically discriminate between h5-HT<sub>1B</sub> and h5HT<sub>1D</sub> receptors
- 302P **Aitchison KA & Coker SJ** Combined administration of N<sup>ω</sup>-nitro-L-arginine and indomethacin increases infarct size in rabbit Langendorff perfused hearts
- 303P **Dowell FJ & Martin W** Peroxynitrite-induced relaxation of rat aortic rings: the role of glucose
- 304P **Martin W & Mian KB** Potentiation of hydrogen peroxide-induced impairment of vasodilator activity of rat aorta by 3-amino-1,2,4-triazole
- 305P **Pitman MR, Karlsson JOG & Griffith TM** Iodinated radiographic contrast media (IRCM) cause both endothelium-independent relaxation and contraction of rabbit aorta
- 306P **Boonen HCM, Roed B & Carr RD** Heterogeneity of K<sup>+</sup>-induced relaxations in rat small mesenteric arteries and coronary septal arteries
- 307P **Hassanali A, Stamford IE, Tavares IA & Rennie JA** Nitric oxide synthase inhibition affects nonadrenergic-noncholinergic relaxation in human colon
- 308P **Legat FJ, Sametz W, Diethart S, Hammer S & Griesbacher T** The pharmacology of FR173657, a new, potent and selective non-peptide bradykinin antagonist: *in vitro* studies in guinea-pig, rat and rabbit tissues
- 309P **Griesbacher T & Legat FJ** The pharmacology of FR173657, a new, potent and selective non-peptide bradykinin antagonist: *in vivo* studies in rats and guinea-pigs
- 310P **Martin GR, MacLennan SJ, Maxwell M & Smith RR** A general operational model of pharmacological synergism
- 311P **Fouyas IP, Kelly PAT, Ritchie IM & Whittle IR** The role of endothelin in the evolution of ischaemia following haemorrhagic stroke in spontaneously diabetic (BB) and non-diabetic rats
- 312P **Coutts AA, Pertwee RG** Effect of cannabinoid agonists and SR141716A on acetylcholine release from the myenteric plexus of the guinea-pig small intestine

## POSTER COMMUNICATIONS

- 313P **Zhou J, Struthers AD & Lyles GA** Lipopolysaccharide-induced nitrite formation in rat anococcygeus cultured smooth muscle cells
- 314P **Zhou J, Struthers AD & Lyles GA** Effects of signal transduction inhibitors upon lipopolysaccharide-induced nitrite formation in rat aortic cultured smooth muscle cells
- 315P **Ayar A, Storer C, Tatham EL & Schott RH** Ryanodine, caffeine and intracellular flash photolysis of DM-nitrophen and diazo-2 modulate excitability of rat cultured sensory neurones
- 316P **López-Redondo F, Pertwee RG & Lees GM** Effects of the cannabinoid receptor agonist, WIN 55,212-2, on fast synaptic transmission in myenteric plexus neurones of the guinea-pig ileum

- 317P Bream E, Macfarlane L, Barlow RB & McQueen DS Antagonist inhibition curves, dissociation constants and the degree of agonist stimulation during physiological release
- 318P McIntyre CA, Williams BC, McKnight J, Lindsay M & Hadoke PWF Conservation of endothelial cell response in rat mesenteric artery stored in physiological salt solution (PSS) at 4° C
- 319P Hadoke PWF, Tse Y, Dillon JF, Walker SW, Williams BC, John TG & Hayes PC Induction of angiotensin II (AII)-mediated contraction of hepatic arteries *in vitro*
- 320P Johnston E, Sweeney G, McCulloch K, Baird M, Pooley L, Houslay MD & Maclean M Modulation of phosphodiesterase activity in pulmonary arteries from chronic hypoxic rats
- 321P Clanachan AS, Gandhi M, Lopaschuk GD & Finegan BA Reversal of the beneficial metabolic effects of adenosine in isolated working rat hearts: role of endogenous catecholamines
- 322P Sjöholm B, Lähdesmäki J & Scheinin M Non-adrenoceptor binding of [<sup>3</sup>H]atipamezole in rat kidney
- 323P Bunton DC, Fisher A, Shaw AM, MacDonald A, Montgomery I & McGrath JC Musculo-elastic structure at origin of pulmonary supernumerary artery resembles a baffle valve
- 324P Brown C & Shaw AM L-NAME exposes a ketanserin-sensitive 5-HT-induced contractile response in the 1st branch pulmonary artery of the rat
- 325P Pitt CM, MacDonald A, Thomson NC & Nally JE Potentiation of endothelin-1-evoked contractions by angiotensin II: the effects of MK886 in bovine bronchi
- 326P Docherty CC & MacLean MR Effect of SB209670 on endothelin responses in isolated pulmonary resistance arteries from heart failure rabbits
- 327P Morecroft I & MacLean MR Protection of endothelium-dependent relaxation in newborn rabbit pulmonary arteries by superoxide dismutase
- 328P Viko H, Sandnes D, Skomedal T & Osnes J-B  $\alpha_{1A}$ -Adrenoceptor stimulation increases <sup>86</sup>Rb<sup>+</sup>-influx rate in rat cardiomyocytes while both  $\alpha_{1A}$  - and  $\alpha_{1B}$  -adrenoceptor stimulation increase inositol 1,4,5-trisphosphate
- 329P Dybvik T, Schiander IG, Skomedal T & Osnes J-B Similar location of myocardial  $\alpha_1$ - and  $\beta$ -adrenoceptors in relation to sympathetic nerve endings in rabbit myocardium
- 330P Andersen GØ, Enger M, Skomedal T & Osnes J-B Involvement of the Na/K/Cl co-transporter and K-channels in the  $\alpha_1$ -adrenoceptor-mediated increase in <sup>86</sup>Rb efflux from the rat heart
- 331P Andersen GØ, Enger M, Skomedal T & Osnes J-B Both the  $\alpha_{1A}$ ,  $\alpha_{1B}$  and  $\alpha_{1D}$  sub-types are involved in the  $\alpha_1$  adrenoceptor-mediated increase in <sup>86</sup>Rb efflux from the rat heart
- 332P McPherson KL, Hamilton CA, Dominiczak AF & Reid JL Modification of nitric oxide response by lipoproteins and dexamethasone in the rat aorta
- 333P Henderson CJ, Bacon EJ, Smith AG & Wolf CR Deletion of mouse glutathione S-transferase Pi from the mouse genome
- 334P Corbett AD, Menzies JRW, MacDonald A, Paterson SJ & Duwiejua M The opioid activity of akuammine, akuammicine and akuammidine: alkaloids extracted from *Picralima nitida* (fam. Apocynaceae)
- 335P Bandera M, Wolf CR, Burchell B & Friedburg T Functional co-expression of CYP2D6 and CYP3A4 with rat NADPH-cytochrome P450 reductase in *S. cerevisiae*
- 336P Tregova A, Holme AD, Bell JO, McLean WG, Edwards G & Ward SA The influence of hepatic metabolism on the neurotoxicity of artemisinin derivatives on cultured NB2a neuroblastoma cells
- 337P Jones PA, Smith RA & Stone TW Protection against kainate excitotoxicity by adenosine  $A_{2a}$  receptor agonists in the rat hippocampus
- 338P Ross FM, Brodie MJ & Stone TW Modulation of epileptiform activity in the hippocampus by nucleotides
- 339P Tian L, Prior C, Dempster J & Marshall IG The effects of hexamethonium and methyl-lycaconitine on acetylcholine release at the rat neuromuscular junction
- 340P Smith KM & McGrath JC Investigation of developmental changes in  $\alpha_1$ -adrenoceptor subtypes in rat mesenteric resistance arteries
- 341P Halfpenny P, Searle TJ & Richards WJ Inhibitory effects of somatostatin and related peptides on electrically-evoked contractions of the rat anococcygeus muscle *in vitro*
- 342P Javid FA & Wood D Inhibition of GABA responses of mouse ileum by electrical field stimulation: effect of inhibitors of GABA uptake and metabolism
- 343P Yeung CK, McCurrie JR & Wood D Comparison of the effects of potassium channel openers on elevated gastrointestinal transit in the mouse
- 344P MacDonald E, Virtanen S, Sirviö J & Haapalinna A Augmentation by the  $\alpha_2$ -adrenoceptor antagonist, atipamezole, of apomorphine-induced circling in rats with combined DSP-4 and unilateral substantia nigra lesions
- 345P Birrell CE & Balfour DJK The influence of nicotine pretreatment on mesoaccumbens dopamine responses to nicotine given into the ventral tegmental area of the rat
- 346P Coldwell MC, Hagan J, Middlemiss D, Tulloch I & Boyfield I Ropinirole is a  $D_3$  selective agonist at cloned human  $D_{2long}$ ,  $D_3$  and  $D_{4.4}$  receptors in functional studies using microphysiometry
- 347P Zetterström TSC, Husum H, Smith S & Sharp T Local application of 5-HT<sub>4</sub> antagonists inhibits potassium-stimulated GABA efflux from rat substantia nigra *in vivo*
- 348P Dobson MY, Sewell RDE & Spencer PSJ Analgesic activity of the 5-HT<sub>1AT</sub> agonists bupirone and 8-hydroxy-2-(di-*n*-propyl-amino)tetralin (8-OH-DPAT) and their differing antagonist interactions

- 349P **Pache DM, Hutchings R, Sewell RDE & Spencer PSJ** Effect of scopolamine on delayed non-matching-to-position performance following central 5,7-dihydroxytryptamine treatment
- 350P **Costall B & Naylor RJ** Interactions of m-chlorophenylpiperazine and m-chlorophenylbiguanide with 5-hydroxytryptophan in the mouse light/dark test
- 351P **Costall B & Naylor RJ** Interaction of fluoxetine with 5-hydroxytryptophan to modify mouse behaviour in the light/dark test
- 352P **Costall B & Naylor RJ** 5-HT<sub>4</sub> receptor antagonists attenuate the disinhibitory effects of diazepam in the mouse light/dark test
- 353P **Smythe JW, Murphy D, Timothy C & Costall B** Mineralocorticoid receptor blockade ameliorates retention deficits in a learning task induced by cholinergic blockade
- 354P **Smith AG, Neill JC & Costall B** 7-OH-DPAT induces biphasic effects on locomotor behaviour in the common marmoset
- 355P **Zeng B-Y, Pearce RKB, Xu Q-L, MacKenzie GM, Tel BC, Jenner P & Marsden CD** Glutamic acid decarboxylase 65 and 67 mRNA in the pallidum of normal monkeys exhibiting L-DOPA-induced dyskinesias
- 356P **Williams A, Redfern WS, Day A, Gracie KJ & Patmore L** Prolongation of QTc interval by ketoconazole in conscious guinea-pigs implanted with ECG telemetry transducers
- 357P **Pei Q & Zetterström TSC** Effects of chronic antidepressant administration on gene expression of the voltage-dependent potassium channel subunit Kv 4.2 in the rat hippocampus
- 358P **Tunstall S, Shaw JS, McPheat JC & Tatum C** Binding to the high- and low-affinity states of rat recombinant  $\alpha_2$ -adrenoceptor subtypes
- 359P **Williams TJ, Clarke DE & Ford APDW** Whole-cell radioligand binding assay reveals  $\alpha_{1L}$ -adrenoceptor (AR) antagonist profile for the human cloned  $\alpha_{1A}$ -AR in Chinese hamster ovary (CHO-K1) cells
- 360P **Daniels DV, Gever JR, Meloy TD, Chang DJ, Kosaka AH, Clarke DE & Ford APDW** Functional pharmacological characteristics of human, rat and rabbit cloned  $\alpha_{1A}$ -adrenoceptors expressed in Chinese hamster ovary (CHO-K1) cells
- 361P **Ang KL & Antoni FA** Rolipram-inhibitable cyclic nucleotide phosphodiesterase (PDE) in rat adenohypophysis: potential functional role in corticotrophs and somatotrophs
- 362P **Pistis M, Belelli D, Peters JA & Lambert JJ** Positive allosteric modulation of recombinant glycine and GABA<sub>A</sub> receptors by general anaesthetic: a comparative study
- 363P **Aniszewski C, Simmonds MA** Bicuculline-sensitive and -insensitive effects of pregnanolone and alphaxalone on [<sup>35</sup>S]-TBPS binding to the picrotoxin site on the GABA<sub>A</sub> receptor
- 364P **Shepherd SE, Peters JA & Lambert JJ** The interaction of intravenous anaesthetics with rat inhibitory and excitatory amino acid receptors expressed in *Xenopus laevis* oocytes
- 365P **Patten D, Martin KF & Halliwell RF** The effects of propofol on neuronal GABA<sub>A</sub> and glycine receptors in the rat optic nerve: an *in vitro* electrophysiological study
- 366P **Stowe RL & Barnes NM** Further pharmacological characterisation of [<sup>3</sup>H]5-CT binding in rat brain tissues
- 367P **Hutchings R, Pache DM, Sewell RDE & Spencer PSJ** The effect of the endopeptidase inhibitor RB38A on hippocampal expression of APP mRNA isoforms
- 368P **Meoni P, Bunneman B, Trist DG & Bowers NG** Expression of the NMDAR1 receptor subunit in human brain studied with *in situ* hybridization on human whole-brain sections
- 369P **Rae MG, Rowan EG & Kennedy C** Characterisation of P<sub>2X</sub>-purinoceptors in neurones of the neonatal rat dorsal root ganglia
- 370P **McLaren GJ, Burke KS, Sneddon P & Kennedy C** Characterisation of the sites at which ATP acts to evoke contraction of the rat tail artery
- 371P **Dulock KA, Herson PS, Rowe ICM & Ashford MLJ** Activation of a NAD<sup>+</sup>-activated non-selective cation channel by ATP and its non-hydrolyzable analogues in CRI-G1 insulin-secreting cells
- 372P **McNamara MG, Kelly JP & Leonard BE** An investigation of the antidepressant properties of 8-OH-DPAT and ipsapirone in rats

## DEMONSTRATION

- 373P **McEwen G, Ogg GD & Stevenson IH** A CAL system for teaching elementary drug disposition and pharmacokinetics: Version 2