ORAL COMMUNICATIONS

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

- 1P Norman KE, Anderson GP, Kolb HC, Ley K & Ernst B A novel sLex mimetic, CGP69669A, inhibits leukocyte rolling in vivo
- 2P Taylor AD, Flower RJ & Buckingham JC Antisense nucleotides to lipocortin 1 and pituitary function in vitro
- 3P Christian HC, Goulding NJ, Morris JF, Flower RJ & Buckingham JC A novel method for the detection and estimation of intracellular lipocortin 1 in the anterior pituitary gland by FAC-analysis/sorting
- 4P Das AM, Flower RJ & Perretti M Eotaxin recruits eosinophils in sensitised mice
- 5P Getting SJ, Flower RJ, dé Medicis R, Lussier A, Parente L & Perretti M Molecular determinants of crystal-induced inflammation
- 6P Hammond EA, Smart D, Webdale LJ, Grimson P, Suman-Chauhan N & Hall MD Molecular cloning and expression of the human hypothalamic Type I interleukin-1 receptor
- 7P Smart D, Hammond EA, Hall MD, Webdale LJ & McKnight AT Characterisation using the Cytosensor microphysiometer of recombinant human Type I interleukin-1 receptor pharmacology
- 8P Gardner JD & Luheshi GN Effect of CRF on the febrile response to IL-1β or LPS in rats
- 9P Scott MGH, Hill P, Rees S, Brown S, Lee M & Hall IP Control of gene expression by elevation of cell cAMP content in primary cultures of human airway smooth muscle cells (HASM) transfected with a cAMP-responsive reporter construct
- 10P **Joseph SK, Jobson TM & Hall IP** The type IV phosphodiesterase inhibitor rolipram inhibits DNA synthesis in primary cultures of human airway smooth muscle cells
- 11P Banner KH & Page CP Prostaglandins contribute to the anti-proliferative effect of isoenzyme-selective phosphodiesterase 4 inhibitors but not theophylline in human mononucelar cells
- 12P **Weston MC & Peachell PT** Effects of phosphodiesterase (PDE) inhibitors on cAMP PDE activity in human lung mast cells and basophils
- 13P Chong LK & Peachell PT Protection by dexamethasone of the functional desensitization to beta adrenoceptor agonist responses in human lung mast cells
- 14P Burke-Gaffney A & Hellewell PG Eosinophil adhesion to human bronchial epithelial cells: modulation by eotaxin
- 15P Tare M, Gordienko DV, Parveen S, Robinson C & Bolton TB Identification of an inward rectifier K+ current in eosinophils from human blood
- 16P Patel M & Ramage AG Investigation of the haemodynamic effects of the selective adenosine A₃ receptor agonist iodobenzyl-5-N-methyl carboxamidoadenosine, IB-MECA, in anaesthetized cats
- 17P Davidson HJ, Richardson PJ & Hiley CR Adenosine receptors in the basilar artery of the rat

- 18P Kirkup AJ, Eastwood C, Grundy D, Chessell IP & Humphrey PPA Activation of adenosine receptors increases rat mesenteric afferent nerve discharge
- 19P Maddock HL, Broadley KJ, Bril A & Khandoudi N Cardioprotection from ischaemic insult in isolated working hearts by an A₃ receptor agonist
- 20P Maddedu P, Varoni MV, Emanueli C, Glorioso N & Hess F Cardiovascular phenotype of transgenic mice with disruption of bradykinin B₂-receptor gene
- 21P Maddedu P, Emanueli C & Chao J Sexual dimorphism of blood pressure response to bradykinin
- 22P Taherzadeh M & Warren JB Locally-acting diltiazem, but not captopril, increases microvascular oedema formation
- 23P **Taherzadeh M & Warren JB** Nifedipine-induced oedema and the role of microvascular vasodilation
- 24P Hughes DA & Coker SJ Attenuation of the negative inotropic effects of chloroquine by combined administration of diazepam and adrenaline in anaesthetized rats
- 25P **Skinner MR & Ramage AG** Evidence that central 5-HT_{1A} receptors are involved in the vagal bradycardia evoked by aortic nerve stimulation in anaesthetized rabbits
- 26P Ohnishi M, Kirkman E, Marshall HW & Little RA
 DAMGO [H-Tyr-D-Ala-Gly-MePhe-NH(CH2)2)H]
 inhibits the bradycardia associated with severe
 haemorrhage in the anaesthetized rat
- 27P Ramage AG & de Burgh Daly M Central effects of the 5-HT₂ receptor agonist 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI) and NMDA on left ventricular dP/dt max in anaesthetized cats
- 28P Sherry L, Rossiter S, Lindsay M & Williams BC The effect of elevated glucose concentrations on vascular reactivity in the streptozotocin-induced diabetic rat
- 29P Sannajust F, Poisson D, Venumière P, Lejeune B & Dubar M Comparative effects of rilmenidine and amiodarone on neurogenic arrhythmias in anaesthetized and conscious rabbits
- 30P Carruthers AM, Nahorski SR & Challiss RAJ Enhancement of metabotropic glutamate receptor-stimulated phosphoinositide signalling following pertussis toxin treatment of baby hamster kidney cells expressing mGluR1α
- 31P O'Leary DM & O'Connor JJ Effects of type I and II metabotropic glutamate receptor agonists and antagonists on paired pulse depression in the rat dentate gyrus in vitro
- 32P Gillard SE, Bleakman D & Lodge D Pharmacological, electrophysiological and immunohistochemical characteristics of dissociated rat cerebellar Purkinje cells in culture
- 33P **Boddeke HWGM & Seuwen K** Effects of calciumsensing receptor activation in primary cultured cortical neurons
- 34P Meller R, Smith S, Harrison PJ & Sharp T Effect of 5-HT on the release of endogenous glutamate from C6 rat glioma cells

- 35P Faber ESL, Chambers JP, Brugger F & Evans RH Long duration NMDA receptor-mediated synaptic responses of spinal motoneurones induced by low threshold afferents
- 36P Lodge D & Woolley ML Effect of cyclothiazide on synaptic transmission in the neonatal rat hemisected spinal cord in vitro
- 37P Chazot PL, Reiss C & Stephenson FA Use of the novel glycine site antagonist, [3H]MDL 105,919, to study properties of native and cloned NMDA receptor subtypes
- 38P Wang Y, Ramage AG & Jordan D Presynaptic 5-HT₃ receptors mediate an excitatory action of 5-HT on dorsal vagal preglanglionic neurones: an *in vivo* ionophoretic study in the rat
- 39P Richards JG, Messer J, Buchy D, Klingelschmidt A & Mutel V In vitro binding characteristics of a selective NMDA receptor 2_B subtype antagonist [3H]Ro 25-6981 in rat brain
- 40P Irving EA, Yatsushiro K, McCulloch J & Dewar D Spin trap agent prevents tau accumulation in oligodendrocytes following focal cerebral ischaemia in the rat
- 41P Wooltorton JRA, Moss SJ & Smart TG Murine GABA_A receptor β₃ subunits produce a GABA-insensitive, spontaneously active membrane conductance when expressed in *Xenopus* oocytes
- 42P Cottrell GA The FMRFamide precursor protein encodes an agonist, a partial agonist and an antagonist of the FaNaCh
- 43P Feniuk W, Alderton F & Humphrey PPA Antagonist effects of the peptides BIM-23055 and BIM-23056 at somatostatin receptors in guinea-pig isolated vas deferens and right atrial preparations
- 44P Selbie LA, Hill SJ & Haynes JM Peptide YY(PYY)/
 Neuropeptide Y receptor-mediated responses in the
 epididymis and vas deferens of the guinea-pig:
 evidence for a PYY selective response
- 45P Ting KN, Davis DJ, Scalbert E, Delagrange P, Sugden D & Wilson VG Constant lighting does not affect the functional response of ML₁-like receptor in the tail artery of juvenile Wistar rats
- 46P Ruetten H, Robson C & Thiemermann C Calpain inhibitor I attenuates circulatory failure, organ injury and the expression of nitric oxide synthase and cyclooxygenase II in endotoxic shock
- 47P Ruetten H & Thiemermann C Effects of inhibitors of tyrosine kinase on haemodynamics, organ failure and expression of nitric oxide synthase in rats with endotoxic shock
- 48P Hey C, Boucher JL, Vadon S, Ketterer G, Stichnote C, Wessler I & Racké K N∞-OH-D,L-Indospicine, a potent and selective inhibitor of arginase in rat and rabbit alveolar macrophages (AMΦ) can promote utilization of L-arginine by nitric oxide synthase (NOS)
- 49P Hamilton LC, Vojnovic I, Bakhle YS, Warner TD & Vane JR The anti-inflammatory drug leflunomide inhibits in vitro and in vivo the activity of COX-2 more potently than the induction of COX-2 or iNOS
- 50P Myint FP & Thiemermann C Inhibition of NO synthase activity reduces the skeletal muscle necrosis caused by ischaemia-reperfusion of the hindlimb
- 51P Myint FP & Thiemermann C PARS inhibition reduces the muscle necrosis caused by ischaemia-reperfusion injury of the hindlimb

- 52P Megson IL, Greig IR, Butler AR, Gray GA & Webb DJ Vasodilatory properties of a novel nitrosated glyco-amino acid in rat isolated femoral arteries: potential as a slow release nitric oxide donor drug
- 53P Lilley E & Gibson A Ascorbate: content, release and protection of NO-induced relaxations in the anococcygeus muscle
- 54P **Berman RS & Griffith TM** Differential actions of charybdotoxin on rabbit central ear and daughter branch arteries
- 55P Otley CE, Crawford SP, Davidson HJ & Hiley CR Effects of peroxynitrite on contraction and relaxation responses in the small mesenteric, coronary and basilar arteries of the rat
- 56P **Dowell FJ & Martin W** Interaction of peroxynitrite with membrane permeant and impermeant sugars
- 57P Blease K, Seybold H, Adcock I, Hellewell P & Burke-Gaffney A Synergism between interleukin-4 and lipopolysaccharide in the induction of VCAM-1 on human lung microvascular endothelial cells
- 58P Norel X, Walch L, Taisne C, Gascard JP, Nashashibi N & Brink C Cholinesterase activity in human pulmonary vessels
- 59P Folkerts G, van der Linde HJ & Nijkamp FP Pharmacological evidence that nitric oxide and cholinesterase in the epithelial layer suppresses the acetylcholine-induced contractions in guinea-pig airways
- 60P Reinheimer T, Baumgärtner B, Racké K & Wessler I Acetylcholine inhibits histamine release from isolated human bronchi via stimulation of muscarinic receptors
- 61P Klapproth H, Reinheimer T, Metzen J, Münch M, Bittinger F, Kirkpatrick C-J, Racké K & Wessler I Non-neuronal acetylcholine, a widespread signalling molecule in man
- 62P Boxall DK, Ford APDW, Challiss RAJ, Nahorski SR & Eglen RJ Atypical muscarinic cholinoceptor (mAChR) mediating carbachol-induced contraction of the guinea-pig uterus
- 63P Eglen RM, Bonhaus DW, Calixto JJ, Choppin A, Leung E, Loeb M, Loury D, Moy T, Wilda M & Hegde SS Characterization of the interaction of tolterodine at muscarinic receptor subtypes in vitro and in vivo
- 64P Jones RD, Thompson JS & Morice AH Inhibition of hypoxic pulmonary vasoconstriction in isolated rat pulmonary arteries by iodonium diphenyl
- 65P Jones RD, Thompson JS & Morice AH Inhibition of hypoxia-, prostaglandin $F_{2\alpha}$ and potassium chloride-induced contractions in rat isolated pulmonary arteries by hydrogen peroxide
- 66P Haylor J, Hickling H, Hardisty C & El Nahas AM Inhibition of diabetic hyperfiltration by JB1, a peptide antagonist of the type 1 IGF receptor
- 67P De Vries P, Apaydin S, Villalón CM, Heiligers JPC & Saxena PR Interactions of GR127935, a 5-HT_{1B/D} receptor ligand, with functional 5-HT receptors
- 68P MaassenVanDenBrink A, Reekers M, Bax WA, Ferrari MD & Saxena PR Current and future antimigraine drugs in the human isolated coronary artery
- 69P Nicholson JR, Paterson SJ & McKnight AT Dynorphin A is the only endogenous opioid peptide with high affinity for the ORL₁-binding site

- 70P Malcangio M, Garrett NE & Tomlinson DR Effect of neurotrophin 3 on the release of substance P from the rat spinal cord
- 71P Gardiner NJ, Giblett S & Grubb BD Cyclooxygenases in rat spinal cord: selective induction of cox-2 during peripheral inflammation
- 72P Bishop-Bailey D, Haddad E-B, Larkin S, Newton R, Pepper JR, Evans TW & Mitchell JA Induction of cyclo-oxygenase-2 in human internal mammary artery and saphenous vein in organ culture
- 73P Bishop-Bailey D, Pepper JR, Larkin S, Evans TW & Mitchell JA Cyclo-oxygenase-2 accounts for the sustained release of prostaglandin E₂ from cytokine stimulated human vascular smooth muscle cells
- 74P **Davis AJ & Perkins MN** desArg⁹BK-induced mechanical hyperalgesia and analgesia in the rat: involvement of IL-1, prostaglandins and peripheral opioids
- 75P Relton JK, Beckey VE, Rothwell NJ & Whalley ET Bradykinin B₂ receptor antagonist CP-0597 reduces infarct volume after focal cerebral ischaemia in the rat: comparison with HOE 140, NPC 17731 and MK801
- 76P Relton JK, Rothwell NJ & Whalley ET Blockade of the bradykinin B₁ receptor reverses the neuroprotective effect of B₂ receptor antagonism after focal cerebral ischaemia in the rat
- 77P Ahmad M, Zeitlin IJ, Hu D-E & Fraser PA Bradykinin release during cerebral ischaemia in anaesthetised rats
- 78P Maubach KA & Grundy D The role of prostaglandins in the bradykinin-induced activation of serosal afferents of the rat jejunum *in vitro*
- 79P MacDermot J, Lo G, Yadollih-Farsani M, Saxty BA & Kefalas P Cloning of cDNA encoding arginine-specific mono(ADP-ribosyl) transferase in human neutrophil polymorphs: relevance to chemotaxis
- 80P Li SW, Boughton-Smith NK & Westwick J cAMP elevation modulates fMLP-stimulated Ca²⁺ and Mn²⁺ influx in human neutrophils
- 81P Martin AK, Willars GB & Nahorski SR Complex relationship between Ins(1,4,5)P₃ and [Ca²⁺]_i signalling in SH-SY5Y cells revealed by differentiation with retinoic acid
- 82P Pitman MR, Karlsson JOG & Griffith TM Relaxation of rabbit aorta by iodinated radiographic contrast media (IRCM) may be partially mediated by Ca²⁺ sequestration into the sarcoplasmic reticulum
- 83P Wijetunge S & Hughes AD An activator of c-Src tyrosine kinase, (pY)EEI peptide, increases voltage-operated calcium channel currents in vascular smooth muscle cells isolated from rabbit ear artery
- 84P Roberts RE, Marsden CA & Kendall DA Efflux of inositol phosphates from neuronal tissues *in vitro*
- 85P Willars GB, McArdle CA & Nahorski SR Phosphoinositide C-linked muscarinic receptors, but not gonadotrophin-releasing hormone receptors, undergo rapid desensitization in αT3-1 cells: implications for mechanisms of desensitization
- 86P Forster C & Larosa G Increased basal cyclic GMP levels in coronary arteries following heart failure
- 87P **Bowes J & Thiemermann** C Inhibition of the activity of poly(ADP-ribose) synthetase reduces infarct size in a rabbit model of myocardial ischaemia and reperfusion

- 88P **Bell D, McDermott BJ & Millar BC** D-myoinositol 1,2,6 trisphosphate (pp56) can discriminate between phospholipase C-dependent and phospholipase C-independent mechanisms of contraction in cardiac myocytes
- 89P Davie CS, Millar JA & Standen NB Functional studies on the mechanism of action of nicorandil in the rat mesenteric artery and its potentiation during impaired metabolism
- 90P Kleschyov AL, Muller B & Stoclet JC Nitric oxide (NO) store as dinitrosyl-iron complexes in lipopoly-saccharide-treated rat isolated aorta: localization and mechanism of formation
- 91P Muller B, Kleschyov AL & Stoclet JC Nitric oxide (NO) store as dinitrosyl-iron complexes in lipopoly-saccharide-treated rat isolated aorta: cyclic GMP-independent relaxing effect of NO released by Nacetylcysteine
- 92P Chatterjee PK, Mistry SK, Hawksworth GM & McLay JS The natriuretic peptides BNP and CNP are potent inhibitors of cytokine-stimulated nitric oxide production in primary cultures of human proximal tubular cells
- 93P Mistry SK, Chatterjee PK, Knott RM, Hawksworth GM & McLay JS Natriuretic peptides stimulate natriuretic peptide and receptor expression in rat proximal tubular cells
- 94P Millar CGM & Thiemermann C Effect of nitric oxide synthase (NOS) inhibition with aminoethylisothiourea on renal function and haemodynamics in endotoxaemia in the rat
- 95P Bogle RG & Vallance P Effects of endotoxin on endothelium-dependent and independent responses in the rat isolated perfused heart
- 96P Hutcheson IR & Griffith TM Role of intracellular calcium stores in flow- and agonist-evoked NO release from endothelium in rabbit isolated aorta
- 97P **Danser AHJ, de Vries R & Saxena PR** Nitric oxide (NO) release by the isolated perfused rat heart: is quantification with an on-line amperometric system possible?
- 98P Plane F, Wiley KE, Cohen RA & Garland CJ The role of potassium channels in relaxation of the rabbit isolated carotid artery to the NO-donor SIN-1
- 99P Bell JP, Lang D, Prendergast BD & Lewis MJ Left ventricular hypertrophy and coronary microvascular endothelium in the guinea-pig: phenotypic changes in nitric oxide synthase and angiotensin converting enzyme activity
- 100P Alexander B, Yang W & Benjamin IS Acetylcholine induces NO-dependent vasodilatation in the hepatic arterial vasculature of the isolated dual-perfused rat liver preparation
- 101P **Thorin E & Bouthillier A** Control of vascular tone by endothelin-1 in human pial arteries
- 102P Kaumann AJ, Lynham JA, Sarsero D & Molenaar P The atypical cardiostimulant β -adrenoceptor is distinct from β_3 -adrenoceptors and coupled to a cyclic AMP-dependent pathway in human and rat myocardium
- 103P Pfaffendorf M, Batink HD, Tränkle C, Mohr K & van Zwieten PA Allosteric modulation by alcuronium, gallamine and W84 is not a common feature of G-protein coupled receptors but specific for cardiac muscarinic receptors in the rat

- 104P Gavin KT, Colgan M-P, Moore D, Shanik G & Docherty JR α_{2C}-Adrenoceptors mediate contractions of human saphenous vein
- 105P Zwaveling J, Batink HD, Winkler Prins EA, Pfaffendorf M & van Zwieten PA Hyperthyroidand hypothyroid-induced modulation of α₂-adrenoceptors and their subtypes in rat left ventricle
- 106P Williams TJ, Blue DR, Morgans DJ, Daniels DV, Gever JR, Gross L, Kava MS, Stepan GJ, Tang HM, Zhu QM, Ford APDW & Clarke DE Pharmacology of Ro 70-0004 (RS-100975), a novel α_{1A}-adrenoceptor (AR)-selective antagonist
- 107P Blue DR, Ford APDW, Morgans DJ, Williams TJ, Zhu QM & Clarke DE The conscious "reflex-compromised" rat: a model for evaluating the hypotensive potencies of the α₁-adrenoceptor antagonists prazosin, tamsulosin and Ro 70-0004
- 108P Mason SL, Chess-Williams R, Chapple CR & Wyllie M The role of α_{1D}-adrenoceptors in prostatic contraction examined using protection studies
- 109P MacLennan SJ, Reynen PH, Luong LA, Ford APDW & Eglen RM Agonist and antagonist affinity estimates for the human cloned α_{2A} receptor expressed in CHL cells using the Cytosensor Microphysiometer
- 110P Viera-Coelho MA & Soares-da-Silva P Effects of dopamine on rat jejunal electrolyte transport through α_2 -adrenoceptors
- 111P Bischoff A, Avramadis P & Michel MC Which receptor subtype mediates renal neuropeptide Y effects?
- 112P Soares-da-Silva P, Gomes P, Serrão MP & Viera-Coelho MA Immediate precursors of natriuretic dopamine and antinatriuretic 5-HT share the same uptake transporter in renal OK cells
- 113P Li Q, Feenstra M, Pfaffendorf M, Eijsman L & van Zwieten PA Contractile effect of angiotensin peptides in human isolated saphenous vein
- 114P Wilson C, Heys C, Hunt S-J, Kelly E, Mortlock A, Tang E & Wright N Pharmacological profile of Z-ETA-1, a novel orally active endothelin ET_A receptor antagonist
- 115P Maguire JJ, Johnson CM & Davenport AP Characterisation of endothelin receptors and converting enzyme activity in human umbilical vein in vitro
- 116P Russell FD, Skepper JN & Davenport AP Subcellular localisation of ET_A and ET_B receptors in human coronary artery
- 117P de Lannoy LM, Danser AHJ, Saxena PR & Schalekamp MADH AT₁-receptor-mediated sequestration of AngII by the heart
- 118P D'Amico M, Rossi F & Warner TD Cardiovascular events following micro-injection of angiotensin II, endothelin-1 or L-NAME to the superior colliculus of rats
- 119P Hoyer D, Kleuser B & Sutcliffe JG Pharmacological profile of human 5-hydroxytryptamine 5-HT₇ receptors expressed in insect cells using the baculovirus system
- 120P Hansard MJ, Unelius L, Jackson DM & Mohell N
 The unusual actions of d-LSD and other ergoline
 derivatives at rat 5-HT₆ receptors stably expressed
 in Chinese hamster ovary (CHO) cell line
- 121P Stanton JA, Handford EJ & Beer MS In vitro visualization of 5-HT receptors in rat brain using [35S]GTPyS binding

- 122P Fletcher S & Barnes NM Immunological characterisation of the 5-HT₃ receptor complex purified from pig brain
- 123P Watts PM, Riedl AG, Douek DC, Edwards JR, Boobis AR & Jenner P CYP2C13 and tyrosine hydroxylase expression in the 6-hydroxydopamine lesioned (6-OHDA) rat
- 124P Kitchen I, Slowe S, Matthes HWD, Simonin F, Befort K & Kieffer B Quantitative autoradiographic mapping of μ-, δ- and κ-opioid receptors in the brain of μ-receptor knockout mice
- 125P Yeo A & Henderson G Coincident signalling between δ-opioid and muscarinic receptors in SH-SY5Y cells
- 126P Michel AD, Lundstrom K & Humphrey PPA Further evidence for allosteric interactions of purinoceptor antagonists with the P2X₄ purinoceptor
- 127P Chessell IP, Anderson IK, Rupniak HTR & Humphrey PPA Pharmacological characteristics of microglial P2X₇ purinoceptors
- 128P Sansum AJ, Chessell IP & Humphrey PPA Characterisation of purinoceptors mediating responses to ATP on rat dorsal roots
- 129P Smith FM, Simon J, Chessell IP, Murrell-Lagnado R, Barnard EA & Humphrey PPA Characterisation of a functional splice variant of the P2X₂ purinoceptor
- 130P Wildman SS, King BF & Burnstock G Potentiation of ATP-responses at a recombinant P2X₂ receptor by neurotransmitters and related substances
- 131P Tomlinson W, Humphries RG, Robertson MJ & Leff P ARL 67085 and ARL 66096 are slowly dissociating competitive P_{2T}-purinoceptor antagonists
- 132P King BF, Wildman SS & Burnstock G Antagonism of a novel P1 receptor in follicular *Xenopus* oocytes
- 133P Anderson R, Mayes A & Higgins GA Mice lacking the apolipoproteinE gene do not show any marked cholinergic deficits
- 134P Clifford J, Tighe O, Croke DT, Drago J, Sibley DR & Waddington JL Phenotype of spontaneous behaviour in transgenic mice with D_{1A} dopamine receptor 'knockout'
- 135P Wilson J, Watson WP, Butterworth AR & Little HJ
 The ethanol preference of low drinkers of the C57
 strain is increased by saline injections: change
 prevented by a CCKB antagonist
- 136P Bailey C, Molleman A & Little HJ Prolonged changes in activity of ventral tegmental neurones after chronic ethanol treatment
- 137P Ward BO & Stephens DN Sensitisation to repeated withdrawal from diazepam
- 138P Kennett GA, Bright F, Trail B, Blackburn TP & Sanger GJ Effects of SB 204070A and SB 207266A, selective 5-HT₄ receptor antagonists, in three rat models of anxiety
- 139P Moran PM, Young AMJ, Gray JA & Joseph MH A single amphetamine treatment is able to disrupt latent inhibition in the rat by an action at conditioning alone
- 140P Roberts C, Price GW, Jones BJH, Middlemiss DN, Gaster L & Routledge C Importance of 5-HT_{1B} selectivity for 5-HT terminal autoreceptor activity: an *in vivo* microdialysis study in the freely-moving guinea-pig
- 141P Hathway GJ, Kendrick KM, Emson PC & Humphrey PPA The neuromodulatory actions of somatostatin in the rat striatum in vivo

- 142P **Urenjak J, Zilkha E & Obrenovich TP** Effect of probenecid on depolarizations evoked by *N*-methyl-D-aspartate (NMDA) in the rat striatum
- 143P Schlicker E, Fink K, Molderings GJ, Price GW, Middlemiss DN, Zentner J, Likungu J & Gothert M Effects of SB 216641 and BRL 15572 (selective h5-HT_{1B} and h5-HT_{1D} receptor antagonists, respectively) on guinea-pig and human 5-HT auto- and heteroreceptors
- 144P Gray RA & Large CH The ecto kinase inhibitor K-252b blocks the induction of long-term potentiation in the perforant path of the anaesthetised rat

POSTER COMMUNICATIONS

- 145P Lang D, Hussain SA & Lewis MJ Homocysteine inhibits endothelium-dependent relaxation in isolated rabbit aortic rings
- 146P Bell-Quilley CP, Quilley J & Hilchey SD Functional evidence for heterogeneity of renal angiotensin receptors
- 147P Hamroun D, Mathieu MN, Launay JM, Dumas J & Chevillard C Human megakaryoblastic cell lines and marrow platelet precursors express endothelin converting enzyme and release endothelin-1
- 148P Pierre LN & Davenport AP Further characterisation of vasoconstrictor endothelin receptors in human small coronary arteries
- 149P Pérez-Vizcaíno F, Villamor E, Fernández del Pozo F, Fernández C & Tamargo J U46619 and endothelin-1 inhibit the relaxant responses via cGMP pathway in piglet pulmonary arteries
- 150P McCurrie JR, Pursglove S & Yeung CK Role of potassium channels in oestrogen-induced vascular relaxation
- 151P Pell TJ, Baxter GF, Goodwin RW & Yellon DM Myocardial ischaemic tolerance following heat stress is abolished by K_{ATP} channel blockade
- 152P Lambert M, Paterson SJ, Hall SJ, Turcato S & Clapp LH Glibenclamide fails to block *in vitro* induction of nitric oxide synthase or vasorelaxation induced by bacterial lipopolysaccharide in rat aorta
- 153P Vohra MM, Chedrawy EG, Li G & Sullivan JA Functional assessment of rabbit thoracic aorta stored in University of Wisconsin, St Thomas' Hospital and Krebs solutions
- 154P Jones RD, Emery CJ, Sokal D & Morice AH Pulmonary vascular resistance and pulmonary reactivity in rats exposed perinatally to either chronic hypoxia, L-NAME or indomethacin
- 155P McCulloch A & Randall MD, The effects of levcromakalim on nitric oxide- and EDHF-mediated relaxations in the rat isolated mesenteric arterial bed
- 156P Quilley J, Mieyal P, McGiff JC & Fulton D K+ channels and the NO-independent vasodilator action of acetylcholine (ACh) in the rat isolated, perfused kidney
- 157P Grieve DJ, Avella MA, Botham KM & Elliott J
 Effects of chylomicron remnants on endothelial
 function in rat aorta
- 158P Towart RB, Refsum H, Sager G, Toft K & Karlsson JOG Cardiovascular safety of intravenously administered MnDPDP as compared to $MnCl_2$ in the conscious beagle dog
- 159P MacKenzie A & Martin W Protection of agonistinduced nitric oxide by Cu-Zn superoxide dismutase in rabbit aorta

- 160P Pérez-Vizcaíno F, Villamor E, Fernández C, Fernández del Pozo B, Cogolludo A & Tamargo J Effects of sodium nitroprusside, levcromakalim and nicorandil in isolated piglet pulmonary and mesenteric arteries
- 161P López-Miranda V, Ortega A, Civantos B & Aleixandre MA Arterial blood pressure and nitric oxide in rats fed on calcium-deficient diets
- 162P Ortega A, López-Miranda V Puerro M & Aleixandre MA Contractile responses of rabbit aorta rings to ouabain
- 163P Aleixandre MA, Ortega A, López-Miranda V & Puerro M α-Adrenoceptor-induced contractions of rat aorta after the inhibition of nitric oxide synthesis
- 164P Laude AJ & Plane F Inhibition of acetylcholineevoked dilatation of the rat isolated mesenteric bed by L-citrulline
- 165P Pawson P, Reid J & Nolan AM The role of nitric oxide and endogenous prostaglandins in the responses of the ovine digital artery to phenylephrine and bradykinin
- 166P Jourdan KB, Curzen NP, Evans TW & Mitchell JA, The isoprostane 8-iso prostaglandin $F_{2\alpha}$ vasodilates rat pulmonary artery via the release of nitric oxide
- 167P Lindsay RM, Peet RS, Wilkie GS, Rossiter SP, Smith W, Baird JD & Williams BC Effects of chronic inhibition of nitric oxide synthase on mean arterial presssure and *in vitro* noradrenergic vasoreactivity in the rat
- 168P Al-Haboubi HA & Ward BJ Differential effects of acute hyperosmotic glucose and mannitol on microvascular structure and permeability to small and large molecular weight solutes
- 169P Véquaud P & Freslon JL Determination of the components involved in the flow-induced dilation of a rat perfused coronary artery
- 170P Whiting RL, Stanley WC, Bonhaus D, Johnson LG, Lee K, Porter S, Walker K, Martinez G, Eglen RM & Hegde SS Pharmacology of RS25560-197, a novel and selective inhibitor of dopamine-β-hydroxylase
- 171P Kurahashi K, Usui H, Miyatake H, Kanda M Nakao H & Oikawa H Implanted preganglionic trunk functionally reinnervates carotid artery in cat
- 172P Paul W & Page CP Effect of α₂-adrenoceptor agonists on bradykinin-induced plasma protein extravasation in guinea-pig skin
- 173P Van der Graaf PH, Schoemaker RC, Danhof M, Shankley NP & Black JW On the use of asymmetrical sigmoidal models for the analysis of α_1 -adrenoceptor agonist concentration-effect curves in rat aorta
- 174P Zhang Y, Vohra MM & Wong AYK A voltagedependent noradrenaline-sensitive intracellular Ca²⁺ store in guinea-pig aortic smooth muscle

- 175P Emerson M, Paul W & Page CP Inhibition of platelet accumulation in the cerebral vasculature of the rabbit by dopamine does not occur via β-adrenergic receptors
- 176P Heijenbrok FJ, Pfaffendorf M & van Zwieten PA Functional responses to various drugs in rat carotid arteries with intimal hyperplasia
- 177P Peters SLM, Pfaffendorf M & van Zwieten PA
 Influence of oxidative stress on β-adrenoceptormediated inotropic effects
- 178P Crawford SP, Richardson PJ & Hiley CR Adenosine receptors mediating vasorelaxation in the small mesenteric artery of the rat
- 179P Gardner NM & Broadley KJ Hypoxia-induced stunning in isolated cardiac tissues: the effect of an A₃ receptor agonist
- 180P Hunt AAE, Maxwell MP, Louttit JB & Drew GM Cardioprotective effects of GR79236, an adenosine A₁ agonist, are independent of its bradycardic and hypotensive activity
- 181P Kromer BM & Tippins JR 8-Epi-prostaglandin $F_{2\alpha}$ is a vasoconstrictor in the rat isolated heart after perfusion with xanthine and xanthine oxidase
- 182P Siebeck M, Eich-Rathfelder S, Fautz M, Hohenbleicher F, Fritz H, Cheronis JC & Whalley ET Bradykinin B₁ receptor agonist studies in porcine endotoxin shock
- 183P Cembala TM, Tidmarsh MD, Appadu BL & Lambert DG Interaction of neuromuscular blocking drugs with recombinant human m1-m3 muscarinic receptors
- 184P van Weeren-Kramer J, van Hamme J, Leeuwin RS & van Wilgenburg H Modification of tetanic contractions in rat phrenic nerve-diaphragm preparation by diazepam and PK 11195
- 185P Zeegers A, Leeuwin RS, van Wilgenburg H & van Hamme J PK 11195 and flumazenil modify responses of coronary flow rate and inotropy of the perfused rat heart to Ro 05-4864
- 186P Mantel P, Leeuwin RS, van Wilgenburg H & van HammeJ Block of evoked action potentials of the rat sciatic nerve *in vitro* by benzodiazepines
- 187P Trout SJ, Gadhok A & Cunnane TC Activation of nicotinic receptors on sympathetic nerve terminals increases action potential-evoked ATP release in the guinea-pig isolated vas deferens
- 188P Borman RA, Jewell R & Hillier K Effect of plateletactivating factor (PAF) on fluid secretion in human colon *in vitro*
- 189P Dickinson K, North TJ & Jones RB BTS 67 582 acts as a glucose sensitising agent in rat perfused pancreatic islets
- 190P Yousif MH, Oriowo MA & Williams KI Evidence for tyrosine kinase involvement in noradrenaline-induced vasoconstriction of the rabbit perfused ovarian vascular bed
- 191P Santicioli P & Maggi CA Electrophysiological study on the activity of the tachykinin NK₂ receptor antagonist MEN 11,420 in the guinea-pig circular colon
- 192P Wardle KA & Sanger GJ SB 207266 is a potent 5-HT₄ receptor antagonist in human isolated gastrointestinal tissue

- 193P Javid FA, Naylor RJ & Tuladhar BR The influence of 5-HT receptor antagonists on the contractile response to 5-HT in the isolated intestine of Suncus murinus
- 194P Hamon G, Jouquey S & Bichet D Protective effect of niravoline, a kappa-opioid agonist, on endotoxin-induced acute gastro-intestinal lesions in the rat
- 195P Darko SKA, Palmerley ND & Burleigh DE Inhibition of potassium (K_{ATP}) channels reduces short-circuit current response of rat colonic mucosa to acetylcholine
- 196P Kerr PM & Hillier K Radioligand binding profile of muscarinic receptors in human colon and ileum
- 197P Wright CE, Bowen WP, Grattan TJ & Morice AH Identification of a specific binding site for menthol in guinea-pig airway
- 198P Wright CE, Laude EA, Grattan T & Morice AH Capsaicin- and neurokinin A-induced bronchoconstriction in the anaesthetised guinea-pig: evidence for a bronchodilator effect of L-menthol
- 199P Laude EA, Grattan T & Morice AH The antitussive action of oral menthol on citric acid-induced cough in guinea-pigs
- 200P Muxworthy RO, Jones G & Bee D Ventilatory action of the pulmonary vasodilator ANP (atrial natriuretic peptide)
- 201P Danahay H, Broadley KJ, Nials AT, McCabe PJ & Sanjar S The effect of the selective phosphodiesterase 4 inhibitor, Ro 20-1724, on antigen-induced IL-5 release in guinea-pig airways
- 202P Astolfi M, Parlani M, Lopez G, Conte B, Cirillo R, Fincham CI, Terracciano R & Manzini S MEN 11149, a potent antagonist of the tachykinin NK₁ receptor
- 203P Newton BB, Carpenter TG, Thompson AM, Fitzgerald MF, Gardiner PJ & Poll CT Eosinophil peroxidase: a reliable marker of antigen-induced pulmonary eosinophilia in the guinea-pig
- 204P Leahy DJ, Newgreen DT, Storrs TJ & Naylor AM Characterisation of functional muscarinic receptors in human submandibular salivary gland
- 205P Williamson IJR, Newgreen DT & Naylor AM The effects of darifenacin and oxybutynin on bladder function and salivation in the conscious rat
- 206P Vehovsky A, Goodwin F, Elekes K, Brownlee DJA, Bagust J & Walker RJ Effects of 5-HT and the tetrapeptide FMRFamide upon the contraction of the pharyngeal muscle of Helix aspersa
- 207P Kelly J, Sennitt MV, Stock MJ & Arch JRS Evidence for a functional β₃-adrenoceptor in human isolated taenia coli
- 208P Mustafa S, Pilcher CWT & Williams KI The mechanism of cooling-induced contraction of ovine trachealis muscle
- 209P Wisskirchen FM, Doyle PM, Gough SL, Harris C & Marshall I Conformational restraints to find biologically relevant structures of CGRP₈₋₃₇ in rat prostatic vas deferens, pulmonary artery and internal anal sphincter
- 210P Chalmers DH, Miller AM & Kenny BA Characterization of the α_1 -mediated responses of isolated rabbit corpus cavernosum

- 211P Razzaque Z, Shaw D, Smith D, Hopkins R, Sirinathsinghji D, Maskell L, Stanton JA, Beer MS, Hill RG, Pickard J & Longmore J Pharmacological analysis of 5-HT-receptor-mediated vasoconstriction of human middle meningeal arteries: determining the contribution of 5-HT_{1B} and 5-HT_{1F} receptor activation
- 212P Rhodes KF, Buckingham JC & Kennard C Inhibition of nicotine-evoked relaxation of the guinea-pig isolated basilar artery by sumatriptan, 5-hydroxy-tryptamine (5-HT) and 5-carboxamidotryptamine (5-CT)
- 213P Cumberbatch MJ, Hill RG & Hargreaves RJ Rizatriptan inhibits trigeminal nociceptive responses in an electrophysiological assay in the anaesthetized rat
- 214P Read SJ, Bulmer DCE, Rushton S, Smith MI, Baxter GS, Smith S & Parsons AA 5-HT, or the 5-HT_{2B} receptor agonist, BW 723C86, do not alter marker extravasation in rat dura mater
- 215P Bashforth PM, Davies RE & Docherty RJ Nonadrenergic, non-cholinergic (NANC) relaxation of the rat anococcygeus muscle in vitro due to activation of capsaicin-sensitive neurones
- 216P Matthews KL, Cunningham JR & Neal MJ Nitric oxide (NO) modulates rabbit cholinergic amacrine cells by reducing glycinergic negative feedback
- 217P Fleetwood G, Buckton J, Tralau-Stewart C & Cambridge D Thioglycollate-induced peritonitis in the CD1 mouse is dependent on L- and P-selectin
- 218P Evans KS, Scott CM & Bountra C Sensitisation of cutaneous afferent neurotransmission to innocuous and noxious mechanical stimuli using topical prostaglandin E₂ (PGE₂)
- 219P Clayton NM, Oakley IG, Thompson S, Wheeldon A, Sargent B & Bountra C Validation of the dual channel weight averager as an instrument of the measurement of clinically relevant pain
- 220P Thompson SL, Clayton NM, Oakley IG & Bountra C The use of locomotor activity equipment to assess analgesic and anti-inflammatory activity
- 221P Scott CM, Smith G, Grundy D & Bountra C The differential effects of fentanyl on dorsal horn neurones responsive to colorectal distension within the lumbosacral cord of the anaesthetised rat
- 222P Harrison C, Rowbotham DJ, Devi LA & Lambert DG Activation of the recombinant δ-opioid receptor in CHO cells increases intracellular calcium
- 223P Paterson SJ, Nicholson JR & McKnight AT Comparison of the regional distribution of ORL- and μ-, δ- and κ-opioid binding sites in homogenates of rabbit, guinea-pig and rat brain
- 224P Hirst RA, Lambert DG, Smart D & McKnight AT Effects of nociceptin on cAMP and Ins(1,4,5)P₃-[Ca²⁺]_i signalling in SH-SY5Y human neuroblastoma cells
- 225P Tyacke RJ, Norton CL, Lewis JW, Nutt DJ & Hudson AL The identification of new ligands selective for δopioid receptors in guinea-pig brain
- 226P Carignani C, Trist DG, Reggiani A & Corsi M Comparison between the NMDA glycine site antagonists GV150526 and 7-chlorokynurenic acid in a functional preparation of neurons from embryonic rat hippocampus
- 227P Piper AS & Docherty RJ Capsaicin increases the desensitization rate of ATP-evoked inward currents in adult rat dorsal root ganglion (DRG) neurones in vitro

- 228P Wardle KA, Ranson J & Sanger GJ Pharmacological characterisation of the vanilloid receptor in the rat dorsal spinal cord
- 229P Hunter JC, Fontana DJ, Hedley LR, Jasper JR, Kassotakis L, Lewis R & Eglen RM The relative contribution of α₂-adrenoceptor subtypes to the antinociceptive action of dexmedetomidine and clonidine in rodent models of acute and chronic pain
- 230P Panesar MS, Patel S, Gentry CT & Campbell EA A novel model for neuropathic pain in the guinea-pig: comparative analgesic activity in a model of inflammatory hyperalgesia
- 231P Gentry CT, West KJ & Campbell EA The effects of sympathectomy on the nerve growth factor (NGF)-induced nociceptive responses in normal and neuropathic rats
- 232P de Ceballos ML, Garrett NE & Tomlinson DR Nociceptive thresholds in experimental diabetes: effects of a NK₁ antagonist
- 233P Huang EY-K, Bagust J, Sharma RP & Walker RJ FLFQPRFamide (NPFF) inhibits the fast wave of the evoked field potential in the rat isolated spinal cord preparation
- 234P Barrett VJ, Raghib A, Butler A & Connor HE Effect of analogues of CGRP₈₋₃₇ on piglet isolated basilar arteries and ¹²⁵I-CGRP binding to SKNMC cell membranes
- 235P Poyner DR Effects of temperature on the binding of calcitonin gene-related peptide and analogues to the guinea-pig cerebellum and vas deferens
- 236P Cheng Z & Nolan AM The effects of flunicin, meglumine and phenylbutazone on cyclooxygenase in inflamed tissue and platelets
- 237P Laughton P, Macaulay AJ & Priestley T Individual neurones isolated from four regions of rat brain express mixed populations of NMDA receptor subtypes
- 238P Nucci C, Piccirilli S, Palma E, Bagetta G, Nisticò G & Cerulli L Evidence for a role of N-methyl-D-aspartate (NMDA) receptors in dark-rearing evoked apoptosis in the lateral geniculate neucleus (LGN) of rabbit
- 239P Fisher A, Biggs CS & Starr MS Evidence that glutamate regulates dopamine synthesis via aromatic Lamino acid decarboxylase
- 240P O'Neill MJ, Bath CP, Dell CP, Hicks C, Ward M, Gilmore J, Ambler SJ, Lodge D & Bleakman D Effects of neuronal calcium channel antagonists on sodium channels in vitro and in global ischaemia in vitro
- 241P Goudie AJ, Taylor A & Smith JA Clozapine drug discrimination in rats: a pharmacologically specific stimulus
- 242P Taylor A, Goudie AJ & Smith JA Clozapine drug discrimination in rats: effects of atypical neuroleptics
- 243P Ali I & Kelly ME Aversive property of clozapine revealed in a murine place-conditioning paradigm
- 244P Bright F, Trail B, Blackburn TP & Kennett GA Effects of clozapine and MDL 100,907 in the rat Geller-Seifter model of anxiety
- 245P Bristow LJ, Gay JC, Cook GP, Patel S, Emms F, Mawer I & Kulagowski JJ Discriminative stimulus properties of the putative dopamine D₃ receptor agonist, (+)-PD 128907, in the rat

- 246P Biggs CS, Fowler LJ, Whitton PS & Starr MS Extracellular glutamate and aspartate are abnormally elevated in the entopeduncular nucleus of Parkinsonian rats: reversal with dopamine $D_{2/3}$ but not D_1 agonists
- 247P Thongsaard W, Kendall DA, Bennett GW & Marsden C A simple method for measuring endogenous and radiolabelled dopamine release from rat striatal slices
- 248P Özer H & Starr M Differential interaction of dizocilpine with dopamine D₁- and D₂-induced catalepsy
- 249P Smith JK, Neill JC & Costall B The effect of 7-OH-DPAT on responding for a conditioned reinforcer in the rat
- 250P Smith AG, Neill JC & Costall B Effect of raclopride and sulpiride on 7-OH-DPAT-induced cognitive deficit in the marmoset
- 251P Montgomery AMJ, Grottick AJ & Herberg LJ Differing effects of typical and atypical neuroleptics on intracranial self-stimulation may depend on α_2 rather than 5-HT₂ antagonism
- 252P Ainsworth K, Smith SE & Sharp T Effect of repeated treatment with antidepressant drugs on the behavioural response to D_1 -like and D_2 -like dopamine receptor agonists in the rat
- 253P Costall B & Naylor RJ The action of m-chlorophenylbiguanide and its interactions with 5-HT receptor antagonists in the rat social interaction test
- 254P Lightowler S, Bright F, Stevens NC, De Biasi V, Blackburn TP & Kennett GA Effect of paroxetine and mianserin on amphetamine-induced hyper-locomotion
- 255P Costall B & Naylor RJ Fluoxetine in the presence of ritanserin enhances the potency of diazepam to disinhibit behaviour in the mouse light dark test
- 256P Graham M, Beckett SRG & Marsden CA The effect of paroxetine, fluoxetine and clomipramine on 20 kHz ultrasound defense behaviour
- 257P Thorn L & Routledge C Comparative modulation of hippocampal 5-HT release by the 5-HT_{2C} receptor antagonist SB 206553 and paroxetine
- 258P Segieth J, Pearce BR & Whitton PS Nitric oxide modulates 5-HT release in rat ventral hippocampus
- 259P Woodall KL, Domeney AM & Kelly ME Antidepressant treatment fails to modify social competition in triads of rats
- 260P Al-Ruwaitea ASA, Al-Zahrani SSA, Ho M-Y, Bradshaw CM & Szabadi E Effect of destruction of the ascending 5-hydroxytryptaminergic pathways on switching between alternative responses in an operant schedule
- 261P Craven RM, Grahame-Smith DG & Newberry NR 5-HT₂-like receptor-mediated depolarization of 5-HT-containing dorsal raphe neurones in vitro
- 262P Costall B & Naylor RJ Interaction of GR113808 with anxiolytic and putative anxiolytic agents in the mouse light dark test
- 263P Colado MI, O'Shea E, Granados R, Murray TK & Green AR Effect of prenatal exposure to MDMA ('Ecstasy') on cerebral 5-HT content of neonate rats
- 264P Colado MI, O'Shea E, Granados R, Murray TK, Williams JL & Green AR Evidence that MDMA ('Ecstasy'), but not fenfluramine, increases free radical formation in rat brain

- 265P Ebenezer IS, Vellucci SV & Parrott RF The effects of the benzodiazepine inverse agonist ethyl-beta-carboline-3-carboxylate (bCCE) on food and water intake in pigs
- 266P Jackson A & Stephens DN Effect of the benzodiazepine-receptor agonist diazepam on a morphine discriminative stimulus
- 267P Lamberth M & Brett RR Effect of environmental enrichment on the response to diazepam in rats
- 268P Smythe JW, Murphy D, McLaughlin SJ & Costall B Systemic mineralocorticoid receptor blockade with spironolactone reduces cognitive deficits induced by cholinergic disruption in aged (24 mo) rats
- 269P Smythe JW, Smith AG & Costall B The effects of mineralocorticoid receptor blockade with spironolactone on reactivity to novelty in marmosets (Callithrix jacchus)
- 270P Timothy C, Murphy D, Costall B & Smythe JW The effects of spironolactone on anxiety-like behaviour (ALB) induced by intrahippocampal scopolamine infusions in the rat
- 271P Murphy D, Costall B & Smythe JW Corticosterone modulates hippocampal theta frequency and power via mineralocorticoid but not glucocorticoid receptors
- 272P Anderson IK, Choudry S, Waslidge N & Rupniak HTR Immunohistochemical and functional characterisation of NTW8 microglial cells
- 273P Qayum S, Shafique M, Kerslake SM, Smythe JW & Evans AT Tacrine inhibits rabbit calcium dependent neutral protease in vitro
- 274P Covernton PJO & Connolly JG Differential modulation of the α4-1β2 and α7 neuronal nicotinic receptor subtypes by ethanol
- 275P **Kempsill FEJ & Pratt JA** Failure of α-bungarotoxin to modify nicotine-induced changes in locomotor activity in rats
- 276P Coley C, Woodward R, Strange PG & Naylor LH Antagonist binding to the D_2 dopamine receptor and the role of conserved serine residues
- 277P Cordeaux Y & Strange PG Sodium sensitivity of substituted benzamide binding at D₂ dopamine receptors expressed in CHO and SF21 cells
- 278P **Watson JM & Bruinvels AT** Investigation of metabotropic glutamate receptor subtypes in rat brain using [35S]GTPγS binding
- 279P Patel K, Marshall FH, Brown S, Rhodes A, Rees ES & Lee MG Characterisation of [3H]-glutamate binding to the mGluR1α and mGluR1β subtype of metabotropic glutamate receptors
- 280P Bartrup JT, Moorman JM & Newberry NR BDNF promotes the growth and survival of hippocampal GABAergic neurones in primary culture
- 281P Clarke NP & Bolam JP Colocalization of neurotransmitters in the basal ganglia of the rat
- 282P Hand K, Simmonds MA, Bowery NG, Van Paesschen W & Duncan J Changes in expression of mRNA encoding GABA receptor subunits α2, α5 and γ2 in resected human epileptic temporal lobe demonstrated by *in situ* hybridisation
- 283P Thompson SA, Thomas D, Whiting PJ & Wafford KA Expression and pharmacology of the human GABA_A receptor δ subunit
- 284P Ward SDC & Hulme EC Alanine scanning mutagenesis in transmembrane domain six of the rat m₁-muscarinic acetylcholine receptor (rat m₁-receptor)

- 285P Yang M, Ruan J, Taguchi K & Michel MC Differential regulation of human α_1 -adrenoceptor subtypes by phenylephrine treatment
- 286P Hopkins EM & Kenny BA In vitro characterisation of rabbit urethral α_1 adrenoceptors
- 287P MacDonald E, Sallinen J, Viitamaa T, Haapalinna A, Tuomisto L, Scheinin M, Link RE & Kobilka BK Effects of dexmedetomidine on levels of biogenic amines and metabolites in mice with targeted inactivation of the α_{2C}-adrenoceptor gene
- 288P Robinson ESJ, Nutt DJ, Jackson HC & Hudson AL α_2 -Adrenoceptor binding in rat brain following chronic infusion of a phosphorothioate antisense oligonucleotide to the α_{2D} subtype
- 289P Tough IR, Beck-Sickinger AG & Cox HM L-Alanine substitution of conserved residues within the pancreatic polypeptide sequence significantly reduces neuropeptide Y activity at a Y_2 -like receptor
- 290P Holliday ND & Cox HM Stably transfected neuropeptide Y Y₁ receptors exhibit a PYY-preferring phenotype when expressed in a human colonic epithelial cell line
- 291P Cooper JA, Homewood N, Rees S, Lee MG & Hill SJ Isoprenaline-stimulated cAMP accumulation and reporter gene activation in Chinese hamster ovary (CHO-K1) cells expressing β_2 adrenoceptors to different levels
- 292P **Briddon SJ, Leslie RA & Elliott JM** Desensitisationinduced changes in the binding of agonist and antagonist radioligands to the transfected human 5-HT_{2A} receptor
- 293P Mitchell AL, Phipps S, Grahame-Smith DG & Elliott JM Investigation into the paradoxical down-regulation by antagonists of human 5-HT_{2A} receptors expressed in SH-SY5Y human neuroblastoma cells
- 294P Clemett DA, Kendall DA, Marsden CA, Cockett MI & Fone KCF Differential effects of chronic clozapine and haloperidol on 5-HT_{2C} and 5-HT₇ receptor levels in the rat brain
- 295P Selkirk JV, Scott C, Jerman JC & Price GW [3H]GR125743 labels both high and low affinity states of h5-HT_{1B} and h5-HT_{1D} receptors
- 296P McCloughlin DJ & Strange PG Functional characterisation of agonists at serotonin 5-HT_{1A} receptors
- 297P Scott EE & Bruinvels AT, Visualisation of 5-HT₁ receptors using [35S]GTP₃S binding in rat brain
- 298P Jasper JR, To ZP, Kosaka A, Eglen RM & Chang DJ Cloning, expression and pharmacology of a truncated splice variant of the human 5-HT₇ receptor
- 299P Dainty IA, Dougall IG, McKay GD & Leff P Pharmacological characterisation of a cloned bovine P2Y₁-purinoceptor transfected into Jurkat cells
- 300P Gubby SE, Albert JL, Boyle JP & Boarder MR Regulation of cyclic AMP by ATP, endothelin and histamine in primary cultures of rat brain capillary endothelial cells
- 301P Albert JL, Gubby SE, Boarder MR & Boyle JP Regulation of inositol polyphosphate accumulation by endothelin-1, histamine and nucleotides in primary cultures of rat brain endothelial cells
- 302P Small BG, Fillipov AK, Lodge D & Bleakman D ATP-dependent increases in intracellular calcium concentration in HEK293 cells

- 303P Coope H, Coote J, Rees ES, Sheehan MJ & Giles H
 The relationship between responses of a reporter
 gene linked to the adenosine A₁ receptor and the
 underlying changes in cyclic AMP
- 304P Dionisotti S, Ongini E, Zocchi C, Molta C, Kull B, Arslan G & Fredholm BB Further characterisation of adenosine A_{2A} receptor antagonist radioligand [3H]-SCH 58261: studies on the human cloned A_{2A} receptor
- 305P Sanderson EM, Bispham JR & Hill SJ Non-selective effects of the putative phospholipase C inhibitor, U73122, on adenosine A₁-receptor-mediated signal transduction events in CHO-K1 cells
- 306P Neil KE, Kendall DA & Alexander SPH Potentiation of sodium nitroprusside-stimulated cyclic GMP formation in NG108-15 cells in the presence of cyclic AMP stimuli
- 307P Marsh KA, Hawley J, Rubin PC & Hill SJ Signal transduction characteristics of cultured smooth muscle cells of the human uterine artery maintained in a low (12.5%) oxygen environment
- 308P Wilkinson GF, Sellers LA, Feniuk W & Humphrey PPA Involvement of protein kinase C isoforms in agonist-mediated inositol phosphate accumulation in CHO-K1 cells expressing recombinant human somatostatin sst₅ receptors
- 309P Wyatt MA, Feniuk W & Humphrey PPA Characterisation of the somatostatin receptors on human parietal derived HGT-1 cells
- 310P Smart D, Brownhill VR & McKnight AT A species difference in the functional antagonism of the neuromedin B-preferring (BB₁) receptor with PD165929
- 311P Andersson MB, Carrier MJ & Änggård EE Activation of mitogen-activated protein kinase by tumour necrosis factor-alpha and hydrogen peroxide in endothelial cells
- 312P Dwivedi A, Carrier MJ & Änggård EE Upregulation of monocyte-endothelial cell adhesion in response to oxidised LDL is independent of NF-kB
- 313P Carrier MJ, Konneh M, Rutherford C, Laight DW, Dwivedi A, Quine L & Änggård EE Effect of ONO-1505, a novel phosphodiesterase type V inhibitor, on vascular smooth muscle cell proliferation in vitro
- 314P Laight DW, Carrier MJ & Änggård EE Potentiation of NO-dependent vasorelaxation and inhibition of platelet aggregation by the novel phosphodiesterase type V inhibitor, ONO-1505, in vitro
- 315P Laight DW, Konneh M, Carrier MJ & Änggård EE Vasodepressor effect of the novel phosphodiesterase type V inhibitor, ONO-1505, in the rat in vivo
- 316P Corder R, Hibbert T, Khan N, Barker S, Wood E & Lees D Proteasome inhibitors block tumor necrosis factor-α and transforming growth factor-β-stimulated endothelin-1 synthesis in bovine aortic endothelial cells
- 317P Lambert GL, Barker S, Wood E & Corder R Forskolin and tumor necrosis factor-α increase endothelin-2 secretion from human renal adenocarcinoma (ACHN) cells
- 318P Bowes J & Thiemermann C 3-Aminobenzamide reduces infarct size in a rabbit model of myocardial ischaemia and reperfusion
- 319P Bowes J & Thiemermann C 3-Aminobenzamide reduces infarct size and attenuates dysfunction in the isolated, perfused heart of the rabbit

- 320P Ruetten H, Hynes C & Thiemermann C Inhibition by E-type prostaglandins of the formation of endothelin-1 by bovine endothelial cells
- 321P Tyers NM, Lloyd AW, James SL & Gard PR
 Differential metabolism of γ-linolenic acid and the
 components of evening primrose oil by MCF7
 human breast epithelial cells *in vitro*
- 322P Rutherford C, Carrier MJ, Änggård EE & Ferns GAA Antibodies to PDGF-BB inhibit fatty streak development, but not neointimal formation after balloon injury to the carotid artery, in cholesterol-fed rabbits
- 323P Gomes P, Serrão MP, Vieira-Coelho MA & Soaresda-Silva P The apical L-DOPA uptake system in OK cells has the characteristics of an organic cation potential-dependent and proton-independent transporter
- 324P Fetscher C, Chen H, Wambach G, Philipp T & Michel MC Effects of glucose and insulin on isoprenaline-induced relaxation of rat mesenteric microvessels
- 325P Farahani M & Hall IP Characterization of the histamine receptor sub-type coupled to activation of phospholipase C in human airway smooth muscle cells
- 326P Foster AP & Cunningham FM Effects of histamine and substance P in vitro on equine eosinophil migration and adherence
- 327P Tailor A, Flower RJ & Perretti M Dose-related effect of dexamethasone on leucocyte extravasation
- 328P Hawcock AB, Lundstrom K, Thomas P & Naylor A

 Effect of single point mutations of the human tachykinin NK₁ receptor on antagonist affinity
- 329P Zeng B-Y, Heales SJR, Brand MP, Land JM, Clark JB, Jenner P & Marsden CD Alterations in striatal preprotachykinin and nigral tyrosine hydroxylase mRNA in tetrahydrobiopterin-deficient mice
- 330P Kerslake SM, Hicks R & Evans AT Stage-specific tumour-promoting phorbol esters as markers of macrophage activation status in an in vitro model of metal oxide particle toxicity
- 331P Quine LA, Gunnarsson PT, Carrier MJ & Änggård EE Assessment of anti-oxidant activity using the SIN-1 degradation assay
- 332P Ali A, Haylor J, Sanai T & El Nahas AM Insulinlike growth factor I (IGF-I) increases collagen IV in the rat kidney *in vivo*: potentiation in the glomerulus by the NOS inhibitor, l-NAME
- 333P Liu B-C, Haylor J & El Nahas AM ODQ prevents the increase in [3H] thymidine and [14C] leucine uptake induced by nitroprusside in rat kidney slices
- 334P Hounsom L, Tomlinson A, Willis D & Willoughby DA Inducible isoforms of cyclooxygenase (COX-2), nitric oxide synthase (iNOS) and heme oxygenase (HO-1) in rat CNS/PNS in acute inflammation
- 335P Kengatharan M, Foster SJ & Thiemermann C Purified Staphylococcus aureus lipoteichoic acid induces nitric oxide synthase activity in murine macrophages
- 336P Barker JE, Brand MP, Strangeward HM Land JM, Clark JB & Heales SJR Increased nitrate formation in LPS/γIFN-stimulated astrocytes of the hph-1 (tetrahydrobiopterin deficient) mouse
- 337P Skamarauskas JT, Callingham BA & Henderson RM The effects of metabolites produced by semicarbazide-sensitive amine oxidase on glutathione reductase activity and on cultured rat mesangial cells

- 338P Brown CJ, Boersma JI & Crankshaw DJ Effects of AH6809 on prostanoid-induced relaxation of human myometrium *in vitro*
- 339P Allen MJ, Smith JR, Mills A & Giles H Characterisation of oestrogen-dependent oxytocin receptor expression in an immortalised human myometrial smooth muscle cell line
- 340P Neo S-Y, Bagrij T, Hladky SB & Barrand MA
 Characteristics of drug uptake into vesicles containing the multidrug resistance associated protein,
 MRP
- 341P Francis I, Henderson RM, Hladky SB, Rowlands T & Barrand MA Measurement of intracellular pH (pH_i) in tumour cells containing the multidrug resistance associated protein, MRP
- 342P Green A, Stables J, Marshall FH, Rees ES & Lee MG A novel assay to detect activation of G-protein coupled receptors by coexpression of $G\alpha_{16}$ and aequorin
- 343P Marr KA, Lees P & Cunningham FM Equine neutrophil adherence in response to PAF, C5a, IL-8 and PMA is mediated via a CD18-dependent mechanism
- 344P Coldwell MC, Hicks F, Jerman J, Kearns I & Brown AM The human CRF1 receptor expressed in HEK 293 cells stimulated [35S]-GTP\s binding as well as cAMP accumulation
- 345P Taylor AD, Flower RJ & Buckingham JC Anti-sense and immunoneutralisation studies reveal a role for lipocortin 1 in the control of growth hormone in vivo and in vitro
- 346P Parsons SJW, Sumner MJ & Garland CJ Lack of effect of potassium channel modulators on intracellular calcium release and uptake in rabbit isolated mesenteric arteries
- 347P Heinroth-Hoffmann I, Vogelsang M & Brodde O-E Endothelin increases intracellular Ca²⁺ in SK-N-MC cells by at least two different mechanisms
- 348P Vickers SP & Clifton PG Excitotoxic lesions of the nucleus accumbens do not affect the hyperphagia induced by 8-OH-DPAT
- 349P Cheetham SC, Viggars JA, Slater NA & Heal DJ [3H]Paroxetine binding indicates that sibutramine is not neurotoxic and, like fluoxetine, it protects against the deficits in 5-HT reuptake sites produced by *d*-fenfluramine
- 350P Butler SA, Slater NA, Prow MR, Aspley S, Martin KF & Heal DJ d-Fenfluramine-induced depletion of rat brain 5-HT is prevented by fluoxetine or sibutramine pretreatment
- 351P **Prow MR, Hannon SD, Aspley S, Martin KF & Heal DJ** Comparison of the effects of sibutramine, fluoxetine and *d*-fenfluramine on extracellular 5-HT in rat anterior hypothalamus: an *in vivo* microdialysis study
- 352P Jones RB, Jackson HC, Cheetham SC, Anthony DM, Sills S, Heal DJ & Buckett WR Chronic administration of sibutramine reduces plasma glucose levels in obese hyperglycaemic (ob/ob) mice
- 353P Aspley S, Broughton DM, Prow MR, Martin KF & Heal DJ Sibutramine and its active metabolites do not release [3H]-noradrenaline from rat heart or brain slices in vitro: comparison with other weight reducing and sympathomimetic drugs
- 354P Libri V, Constanti A, Zibetti M & Postlethwaite M Pre- and post-synaptic metabotropic glutamate receptor pharmacology in guinea-pig olfactory cortical neurones in vitro

- 355P Bond A, O'Neill MJ, Hicks CA & Lodge D Block of AMPA receptor-induced desensitisation by cyclothiazide does not potentiate neuronal damage following cerebral ischaemia
- 356P Imagawa J, Baxter GF & Yellon DM Genistein, a tyrosine kinase inhibitor, blocks the second window of protection 48 hours after ischaemic preconditioning
- 357P O'Neill MJ, Ward M, Hicks CA & Lodge D Evaluation of the nitric oxide synthase inhibitors 7-nitro-indazole, 3-bromo-7-nitroindazole and L-NAME in gerbil global cerebral ischaemia
- 358P Bagetta G, Piccirilli S, Palma E, Rotiroti D, Nisticò G & Dolly JO A free radical scavenger, U-74389G, attenuates seizures and neuronal damage induced by intrahippocampal injection of dendrotoxin-K into rat
- 359P **De Sarro G, Donato Di Paola E & De Sarro A** Anticonvulsant and proconvulsant effects of compounds acting on different adeosine receptor subtypes in DBA/2 mice
- 360P Beresford IJM, Starkey SJ, Oakley NR Stratton SC & Hagan RM GR196429, a non-indolic agonist at high affinity melatonin receptors which mediate the actions of melatonin on the rat circadian clock
- 361P Browning C, Brown JD, Beresford IJM & Giles H, Pharmacological characterisation of [3H]-melatonin binding to human recombinant melatonin Mel_{1A} and Mel_{1B} receptors
- 362P Hawcock AB, Gray DW, Smith RR & Giles H Characterisation of the tachykinin NK receptor in dog cortex
- 363P Rupniak NMJ, Tattersall FD, Williams AR, Rycroft W, Carlson EJ, Cascieri MA, Hale JJ, Mills SG, MacCoss M, Seward E, Huscroft I, Swain CJ, Hill RG & Hargreaves RJ Prediction of the anti-emetic activity of NK₁ receptor antagonists in ferrets by their ability to inhibit GR73632-induced foot tapping in gerbils

DEMONSTRATION

375P Dewhurst DG & Joshi P Nerve physiology revisited: an interactive tutorial based on experiments conducted on frog sciatic nerve

- 364P Jones DNC, Kortekaas R, Slade PD & Hagan JJ Comparison of behavioural effects of corticotropin-releasing factor and the novel neuropeptide, uncortin
- 365P Gardner JD, Rothwell NJ & Luheshi GN Hypothermic and hyperthermic actions of CRF: influence of environmental conditions
- 366P **Shakesby AC & Davies JA** The GABA uptake inhibitor, NO-711, induces depolarizations in mouse cortical wedges
- 367P Phillips I, Martin KF, Davies JA & Heal DJ GABAinduced depolarisations in the rat cortical wedge preparation are mediated by GABA_A receptors and may involve HCO₃ ions
- 368P Smith SL, Martin KF, Heal DJ & Rothwell NJ Determination of cortical levels of multiple neurotransmitter amino acids: an *in vivo* microdialysis study in conscious rats
- 369P Rupniak NMJ, Tye SJ & Field MJ Effect of the acetylcholinesterase inhibitor E2020 in tests of spatial and visual recognition memory in rhesus monkeys
- 370P **Ge J, Long SK & Kilpatrick IC** Preferential blockade of CCK-8S-induced rises in extracellular aspartate by the CCK_B antagonist, L-365,260, in the frontal cortex of the the anaesthetised rat
- 371P Molleman A & Little HJ Increased hippocampal calcium currents during withdrawal from chronic ethanol treatment
- 372P Manley SJ & Little HJ Prolonged increases in sensitivity to adenosine ligands following with-drawal from ethanol treatment
- 373P Commissaris RL, Ardayfio PA, Meadows KD & Normile HJ Classically conditioned reward results in potentiated startle in rats
- 374P **Doggrell SA & Petcu EB** Hyper-responsiveness to isoprenaline in the atria, but not ventricles, of prehytpertensive rats

ABSTRACT FROM A PHEN (Pharmacology Higher Education Network) SYMPOSIUM on 18 Dec.1996

376P Markham A, Jones SJ & Sutcliffe M PHEN Workshop: a survey of methods of teaching and learning in undergraduate pharmacology within higher education - 1996

ABSTRACTS FROM A SYMPOSIUM ON 'ALZHEIMER'S DISEASE: CURRENT AND FUTURE PROSPECTS' on 17 December 1996

- 377P Davies AM, Korsmeyer S, Pinon L, Adul J & Middleton G The role of the Bcl-2 family of proteins in regulating neuronal survival
- 378P Halliwell B Oxidative stress
- 379P Rothwell NJ Brain inflammation and neurodegeneration
- 380P Roberts GW The pathophysiology of Alzheimer's disease
- 381P Williams A Clinical features of degenerative
- 382P Sirinathsinghji DJ Transgenic models of neurodegenerative disorders
- 383P Hill RG New strategies for the treatment of Alzheimer's disease
- 384P Loudun JM Muscrinic partial agonists in the treatment of Alzheimer's diesase
- 385P Gerlis L Regulatory aspects of dementia trials