

ORAL COMMUNICATIONS

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

- | | |
|--|---|
| <p>1P Hannon JP, Petrucci C, Fehlmann D, Schaeffer J, Viollet C, Epelbaum J & Hoyer D Somatostatin sst₂ receptor knockout mice: patterns of sst_{1,5} receptor mRNA and binding in brain <i>in situ</i> hybridisation histochemistry and receptor autoradiography</p> <p>2P Nelson RM, Green AR & Hainsworth AH Electrophysiological actions of GABA and clomethiazole on human recombinant GABA_A receptors</p> <p>3P Jones RSG & Cunningham MO Effects of sodium valproate on GABA and glutamate release in the rat entorhinal cortex</p> <p>4P Cunningham MO & Jones RSG Does phenytoin modify glutamate and GABA release via an interaction with presynaptic GABA_B receptors?</p> <p>5P Stacey AE & Jones RSG Activation of the neurokinin-3 (NK3) receptor enhances release of glutamate but not GABA in the rat entorhinal cortex</p> <p>6P Woodhall G, Strawbridge M, Law A & Jones RSG Group III metabotropic glutamate receptors modulate epileptiform activity in the rat entorhinal cortex</p> <p>7P Butler M, O'Connor JJ & Moynagh PN An evaluation of the effects of TNFα on long-term potentiation in the rat dentate gyrus <i>in vitro</i></p> <p>8P Freir DB & Herron CE The effects of the L-type Ca²⁺ channel agonist BAY K8644 and APV on LTP in the hippocampal CA1 region <i>in vivo</i></p> <p>9P Klyubin I, Anwyl R & Rowan MJ Acute stress blocks both NMDA receptor-dependent and independent LTP in rat hippocampus area CA1 <i>in vivo</i></p> <p>10P Murray HJ & O'Connor JJ An inhibitory role for cyclooxygenase-2 in long term depression in the rat dentate gyrus <i>in vitro</i></p> <p>11P Mitchell S, Thomas G, Savill J, Brady HR & Godson C Lipoxins, lipoxin stable analogues and aspirin-triggered lipoxins stimulate phagocytosis of apoptotic PMN <i>in vitro</i> and <i>in vivo</i></p> <p>12P Carmody JJ, Giles BE, Ting ML & Walker JS Sex hormones and NSAID analgesic response in rats</p> <p>13P Dolan S & Nolan AM Differential up-regulation of prostaglandin E receptor subtype mRNA in spinal cord in acute and chronic models of inflammation</p> <p>14P De Alba J, Clayton NM, Collins SD & Knowles RG Role of the inducible isoform of nitric oxide synthase (iNOS) in a model of established inflammatory pain in the rat</p> <p>15P Rawlingson A & Brain SD Effect of a selective iNOS inhibitor on protein nitration, neutrophil accumulation and plasma extravasation in a rat model of thermal injury</p> <p>16P Ralevic V Endothelial nitric oxide modulates capsaicin-sensitive sensory neurotransmission in the rat isolated mesenteric arterial bed</p> | <p>17P Grant AD, Akhtar R & Brain SD Effect of neurokinin B on plasma extravasation after intradermal and intravenous administration in tachykinin NK₁ wildtype and knockout mice</p> <p>18P Clayton NM, O'Shaughnessy CT, Marshall F & Bountra C CB1 and CB2 cannabinoid receptors are implicated in inflammatory hypersensitivity to pain</p> <p>19P Costa SKP, Brain SD & Docherty RJ An electrophysiological investigation into mechanisms via which the venom from the <i>Phoneutria nigriventer</i> (PNV) spider activates the rat vagus nerve</p> <p>20P Hasseldine ARG, Harper EA & Black JW Beta adrenoreceptor function in transgenic mice with cardiac-specific overexpression of the β_2 adrenoreceptor</p> <p>21P Ralevic V, Jankowski J & Schlüter H Effects of adenosine polyphospho guanosines (Ap_nGs) and guanosine polyphospho guanosines (Gp_nGs) in the rat isolated mesenteric arterial bed</p> <p>22P Gitlin JM, Stanford SJ, Evans TW, Anning PB & Mitchell JA Evidence for the sustained phase of ATP-induced vasodilation being mediated by endothelial-derived hyperpolarizing factor</p> <p>23P Gitlin JM, Stanford SJ, Evans TW, Anning PB & Mitchell JA The second phase of ATP-evoked relaxation in the rat isolated mesenteric artery bed may be independent of P2Y receptors</p> <p>24P White PJ & Boarder MR Nucleotide regulation of proliferation in human vascular smooth muscle cells</p> <p>25P Ho WSV, Bottrill FE, White R & Hiley CR Anandamide-induced relaxation in rat coronary artery is not mediated by the vanilloid receptor VR1</p> <p>26P Mistry H, Ali R, Bottrill FE, Hiley CR & White R Effects of anoxia on mechanisms of relaxation to isoprenaline in rat small mesenteric artery</p> <p>27P Wanstall JC, Gambino A, Jeffery TK, Cahill MM, Bellomo D, Hayward N & Kay GF Vascular endothelial growth factor-B deficient mice exhibit normal endothelium-dependent vasorelaxation but subnormal response to chronic hypoxia</p> <p>28P Wilson SJ, Mar GJ, Madhavan P, Fulton GJ, Keenan AK & Feeley TM Expression of heme oxygenase-1 in an experimental model of angioplasty and vein grafting: modulation by cholesterol and vitamin E</p> <p>29P Katugampola SD & Davenport AP From gene to function: the recently adopted orphan receptor for the novel vasodilator peptide ghrelin is upregulated in human atherosclerotic coronary artery</p> <p>30P Allen A, Kelso E, Bell D & McDermott B Increased potency of neuropeptide Y to attenuate contraction via Y₂ receptors during the development of cardiomyocyte hypertrophy</p> |
|--|---|

- 31P **Lee GR, Bell D & McDermott BJ** Evidence for enhanced endothelin (ET_B) receptor affinity during the progression of hypertension-induced ventricular cardiomyocyte hypertrophy
- 32P **Berry CB & McBean GJ** Structure activity relationships in the modulation of glutamate transport in synaptosomes and HEK_{GLT1} cells by fatty acids
- 33P **Devedasan C, Starr BS & Doyle KM** Effect of arcaine and Ro 25-6981 on locomotor activity in naïve and reserpinised mice
- 34P **Cleary L, Lavelle A & Docherty J** Comparison of amphetamine derivatives in their actions at α_2 -adrenoceptors
- 35P **Murphy JEJ, Cannon DM, Guiry P, McCormack P, Baird AW, McBean GJ & Keenan AK** A comparison of the *in vitro* effects of (\pm)-4-methylthioamphetamine and (\pm)-MDMA on 5-HT re-uptake in the brain and on vascular responses to 5-HT
- 36P **Beveridge TJR, Pei Q, Zetterström TSC & Elliott JM** Effect of a prior neurotoxic dose of MDMA on the expression of ARC mRNA in response to acute MDMA administration
- 37P **O'Loinsigh E, Kelly JP & O'Boyle KM** Evidence for a critical role of body temperature in the modulation of MDMA neurotoxicity by drugs of abuse
- 38P **O'Connor TJ, Connelly D & Kelly JP** Methylene-dioxymethamphetamine (MDMA; 'Ecstasy') suppresses the primary IgG response to an antigenic challenge in rats
- 39P **Baird AW, Moriarty D, Guiry P, McBean GJ & Keenan AK** (\pm)-3,4-methylenedioxymethamphetamine (MDMA) stimulates electrogenic ion transport in rat colonic mucosa *in vitro*
- 40P **Atkinson PJ, Duxon MS, Price GW, Hastie PG & Thomas DR** Paroxetine down-regulates 5-HT₇ receptors in rat hypothalamus but not hippocampus following chronic administration
- 41P **Brough SJ, Jerman JC, Porter R, Martin J, Pilleux JP & Smart D** Pharmacological characterisation of orexin receptor subtype selective ligands
- 42P **Nunn C, Feuerbach D, Lin X, Peter R & Hoyer D** Functional expression and pharmacological characterisation of the goldfish somatostatin sst₅ receptor
- 43P **Selkirk JV, Rhodes A, Price GW, McIlhenney RAJ, Nahorski SR & Challiss RAJ** Pharmacological characterization of the truncated, soluble N-terminus of the Type 1 α mGluR: comparison to the native full-length receptor
- 44P **Pennington RA & Prince RJ** Binding site selectivity of epibatidine at the muscle nicotinic acetylcholine receptor
- 45P **Lummis SCR & Deane CM** The role and predicted propensity of conserved proline residues in the mouse 5-HT_{3A} receptor
- 46P **Jones CA, Simon J, Humphrey PPA & Chessell IP** Co-expression and functional characterisation of rat P2X₄ and P2X₆ subunits in mammalian cells
- 47P **Madziva MT, Galtrey CM, Vyas B, Chapman ER & Edwardson JM** Synaptotagmin I rescues muscarinic acetylcholine receptor internalisation inhibited by either dominant-negative arrestin or dominant-negative dynamin
- 48P **Willets JM, Challiss RAJ & Nahorski SR** M₃ muscarinic receptor/Gq uncoupling is enhanced by overexpression of GRK6 but not GRK3
- 49P **Neish C, Martin IL, Henderson RM & Edwardson JM** Direct visualization of ligand-protein interactions using atomic force microscopy
- 50P **Baker JG, Hall IP & Hill SJ** Pharmacology and direct visualization of the fluorescent β_2 -adrenoceptor ligand BODIPY-CGP 12177 in CHO cells transfected with the human β_2 -adrenoceptor
- 51P **Mayer G & Taberner PV** Stimulation of insulin secretion *in vivo* by the imidazoline analogue KU14R
- 52P **Elliott JC, Harrold JA, Brodin P, Enquist K, Bäckman A, Byström M, Lindgren K & Williams G** Changes in rat melanin concentrating hormone (MCH) and MCH receptor (SLC-1) mRNA induced by dietary obesity
- 53P **Higgins AJ, Ekwuribe N, Dyakonov T, Langevin M, Miller M, Paige L, Surguladze D, Wille K & Smalley M** Enhanced bioefficacy of a novel orally active calcitonin analogue
- 54P **Borman RA, Day N, Harmer DW, Ellis ES, Sheldrick RLG, Carey J, Tilford N, Coleman RA & Baxter GS** Functional evidence for a 5-HT_{2B} receptor controlling motility in human isolated colon
- 55P **Maderna P, Brady HR & Godson C** Lipoxins induce reorganisation of the actin cytoskeleton in monocyte-derived macrophages: the role of RhoA
- 56P **Chew BK, McKirdy SW, Naylor IL & Sharpe DT** The pharmacological implications of the association and activity of mast cells and myofibroblasts in perimplant fibrosis
- 57P **Leonard M, Brayden DJ & Baird AW** An *in vitro* intestinal cell culture model of M-cells displays a TH1 type cytokine profile
- 58P **Nee L, McMorrow T & Ryan MP** Signalling pathways involved in the regulation of MMP-9 (gelatinase B) and TIMP-1 by renal proximal tubular cells in response to TNF α and IL-1 β
- 59P **Kiely B & Ryan MP** Signalling mechanisms involved in lateration of epithelial barrier function by cyclosporine in renal MDCK cells
- 60P **Nathwani SM, McMorrow T, Tuite N, Dempsey M & Ryan MP** Pathways involved in cisplatin-induced apoptosis in renal tubular epithelial LLC-PK₁ cells
- 61P **Danahay H & Poll CT** Niflumic acid (NFA) inhibits UTP-stimulated increases in short circuit current (ISC) in human bronchial epithelial cells (HBECS)
- 62P **Kemp PA, Sugar RA & Jackson AD** Mucus secretion from differentiated human bronchial epithelial cells: regulation through the purinoceptor P2Y₂

- 63P **Morecroft I, Keegan A & MacLean MR** Attenuation of pulmonary hypertension in 5-HT_{1B} receptor knockout mice
- 64P **Keegan A, Morecroft I & MacLean M** The effect of 5-HT_{1B/1D} receptor antagonist treatment on indices of chronic hypoxia-induced pulmonary hypertension in rats
- 65P **Toward TJ & Broadley KJ** Effects of rolipram and dexamethasone on airway function, cell influx and lung histology of guinea-pigs chronically exposed to LPS
- 66P **Chong LK, Chess-Williams R & Peachell PT** Pharmacological characterisation of the β -adrenoceptor expressed by human lung mast cells
- 67P **Peachell PT, Weston MC & Dummer J** Characterisation of phosphodiesterases in human lung mast cells and basophils
- 68P **Trifilieff A, Wyss D, Walker C, Mazzoni L & Hersperger R** Effect of a novel PDE4 inhibitor, NVP-ABE171, a 1,7-naphthyridine derivative in models of lung inflammation in mice and rats
- 69P **Lewis CA, Hoshiko K, Pfannkuche H-J, Ball H, Subramaniam N, Gerspacher M & Fozard JR** Airways pharmacology of DNK333A, a dual NK₁/NK₂ neurokinin receptor antagonist
- 70P **Buchheit K-H, Manley PW, Quast U & Fozard JR** KCO912: a potent and selective opener of ATP-dependent potassium (K_{ATP}) channels with selectivity for the airways

POSTER COMMUNICATIONS

- 71P **Bahra P, Poll CT, Westwick J & Li SW** Characterisation of P2 purinoceptors mediating increases in intracellular free calcium levels in HL60 cells using FLIPR (Fluorescence Imaging Plate Reader)
- 72P **Prentice DJ, Kelly MDW, Ledent C & Hourani SMO** Effect of A_{2A} adenosine receptor knockout on relaxant effects of adenosine and analogues in mouse isolated aorta
- 73P **Hourani SMO, Mackins CJ, Kelly MDW, Ledent C & Prentice DJ** Effect of A_{2A} adenosine receptor knockout on inhibition by NECA and CGS21680 of KCl-induced contractions in murine vas deferens
- 74P **Alexander SPH, Badial J, Badial T & Ralevic V** A comparative study of P2 receptor effects on smooth muscle tone in the porcine isolated common digital artery and palmar lateral vein
- 75P **Kuc RE, Maguire JJ & Davenport AP** Urotensin-II is a potent constrictor of human atherosclerotic coronary arteries with immunoreactive peptide localised to the atherosclerotic plaque
- 76P **Brady F, Bakhle YS & Bell C** Does endogenous substance P modulate baroreflex gain in the rat?
- 77P **Borg JJ, Hancox JC, Spencer IC & Kozlowski RZ** An anionic background conductance (I_{AB}) in guinea-pig isolated ventricular myocytes and its modulation by tefluthrin
- 78P **Lane S, Julia-Sapé M & Allshire A** Hypophosphorylation of cytoskeletal and myofibrillar proteins correlates with hypercontractility of reperfused cardiomyocytes
- 79P **Bell D, Allen AR, Kelso EJ & McDermott BJ** Induction of hypertrophic responsiveness to neuropeptide Y is mediated by the cardiomyocyte Y5 receptor in the spontaneously hypertensive rat
- 80P **Headley EL, Hiley CR & Ford WR** Angiotensin II reduces infarct size in rat isolated perfused hearts partly via stimulation of AT₁ receptors
- 81P **Katugampola SD & Davenport AP** Angiotensin type I receptor antagonist losartan at therapeutic concentrations, binds to thromboxane receptors in human cardiovascular and renal tissue
- 82P **Katugampola SD & Davenport AP** Comparison of thromboxane (TP) and angiotensin (AT₁ and AT₂) receptors in human saphenous vein: density and phenotypic changes associated with vein graft disease
- 83P **Freeman JE, Godson C & Kinsella BT** An investigation into thromboxane A₂ and lipoxin A₄ signalling in primary human mesangial cells
- 84P **Doorty KB, Golubeva T, Gorelov A, Rochev Y, Dawson K, Gallagher WM & Keenan AK** Investigation of co-polymer films as drug delivery systems for prevention of vascular smooth muscle cell proliferation
- 85P **Dee J, Lambkin I, Pinilla C, Higgins L, Yu XQ & O'Mahony D** Investigation of the accessibility of a membrane translocating sequence (MTS) grafted onto polystyrene particles to epithelial cells and bioavailability of a radiolabelled MTS drug concentrate *in vivo*
- 86P **Jones J, Dunne M, Tsai J, Paul R, Cudmore S & Harkin P** Analytical method development for the determination of compacted DNA and protamine sulphate in lipoplexes
- 87P **Gitlin JM, Stanford SJ, Evans TW, Anning PB & Mitchell JA** ATP induces a biphasic dilator response in mesenteric vessels from Sprague Dawley as well as Wistar rats
- 88P **Farmer MR, Gardiner SM & Ralevic V** Vascular responses to methoxamine in isolated perfused mesenteric arterial beds from endotoxaemic rats
- 89P **Tep-areenan P, Kendall DA & Randall MD** Mechanisms of testosterone-induced vasorelaxation in the rat isolated mesenteric arterial bed
- 90P **Stanford SJ, Pepper JR & Mitchell JA** Cytokine-induced apoptosis of human cultured venous smooth muscle cells
- 91P **Roberts RE** The EGF receptor tyrosine kinase inhibitor AG1478 prevents α 2 adrenoceptor-mediated vasoconstriction and ERK activation in porcine palmar lateral vein
- 92P **Usher C, McHugh R & Keenan AK** Effects of cyclooxygenase inhibition on endothelium-dependent relaxation in rat aorta

- 93P **Lawler OA & Kinsella BT** The statins and prostacyclin receptor signalling
- 94P **Mueller A & Strange P** Characterisation of chemokine-triggered internalisation and phosphorylation of the chemokine receptor CCR5
- 95P **Liu YZ, Rich K, Coldwell MC, Wilkinson GF, McHale M, Sullivan E & Thong B** Characterisation of [³⁵S]GTPγS binding to CHO cell membranes expressing human CCR4 receptors
- 96P **Rawlins P, McHale M, Sullivan E & Coldwell MC** Characterisation of agonist-induced inhibition of cyclic AMP accumulation in cells expressing human CCR4 receptor
- 97P **Kelley LP & Kinsella B** Desensitisation of the α isoform of the human thromboxane A₂ receptor by prostaglandin D₂ receptor (DP)
- 98P **Miggin SM & Kinsella BT** MAPK activation through the human thromboxane A₂ receptor α and β isoforms
- 99P **Finlay D, Furlong F, Healy V & Martin F** MAP kinase pathway signalling is essential for extracellular matrix determined mammary epithelial cell survival
- 100P **Murray F, Pyne NJ & MacLean M** Evaluation of phosphodiesterase-3 in normoxic and hypoxic human pulmonary artery smooth muscle cells
- 101P **Brown T, Clayton N, Brazdil R, Wiseman J, Naylor A & Bountra C** The effects of a selective COX-2 inhibitor, GR253035X, in rat models of inflammatory hyperalgesia assessed using behavioural readouts and by quantitation of spinal immunohistochemistry
- 102P **Honey AC, Bland-Ward PA, Alderton WK, Feniuk W & Humphrey PPA** The nNOS inhibitor, GW289013, inhibits neurogenic vasodilation in the anaesthetised rat
- 103P **Mackerel AJ, Fadden AJ, Hislip SJ, FitzGerald MX & O'Connor MC** Neutrophil activation by FMLP and IL-8: differences in involvement of RHOA
- 104P **Mackerel J** Pre-exposure to FMLP causes normal neutrophils to mimic neutrophils from patients with acute pulmonary infection
- 105P **McMahon R, Murphy M, Gardiner C, Godson C, Martin F & Brady HR** Gremlin inhibits DNA synthesis and proliferation in human mesangial cells by a BMP-independent mechanism
- 106P **Tigani B, Hannon JP, Mazzoni L & Fozard J** Effects of budesonide and IMM125 on antigen-induced airway inflammation and hyperresponsiveness to adenosine (ADO) in actively sensitised Brown Norway (BN) rats
- 107P **Fozard JR, Tigani B & Hannon JP** Hyperresponsiveness of lung parenchymal strips to adenosine receptor agonists induced by antigen challenge in actively sensitised Brown Norway (BN) rats
- 108P **Smart LJ, Chong LK, Rostami-Hodjegan A & Peachell PT** Influence of the Thr164Ile polymorphism in the β₂-adrenoceptor on the effects of β-agonists on human lung mast cells
- 109P **Sharma SC** Effect of pycnogenol on mast cell histamine release
- 110P **Brahmadevara N, Brawley L, Shaw AM & MacDonald A** Pharmacological differences between atypical β-adrenoceptors in rat aorta and β₃-adrenoceptors in rat colon
- 111P **Boorman PA, Welsh NJ, Watt G & Black JW** SR59230A is non-selective between β-adrenoceptor subtypes in mouse colon circular smooth muscle
- 112P **Baker JG, Hall IP & Hill SJ** Pharmacology of CGP 12177 in CHO cells transfected with the human β₂-adrenoceptor
- 113P **Seigel T & Dean PM** Homology modelling of the 11β-hydroxysteroid dehydrogenase isozymes
- 114P **Byrne D, Leonard M, Mah S, Lo D, Baird A, O'Mahony D & Brayden D** Differential expression of genes in a Peyer's Patch M cell co-culture model by TOGA™
- 115P **Byrne D, Higgins L, Conway M, Mah S, Lo D, Brayden D & O'Mahony D** Analysis of differential expression of genes in *in vivo* Peyer's Patch M cell models by TOGA™
- 116P **Higgins LM, Donnelly GG, Lambkin I, O'Malley D, Dee J, Byrne D, Smith M, Brayden D & O'Mahony D** Screening phage display libraries *in vivo* for the identification of intestinal targeting ligands
- 117P **Donnelly GG, Daly L, Higgins L, O'Mahony D & Mills KHG** Modulation of innate and acquired immune responses with CPG motifs from bacterial DNA
- 118P **Patel JD & Ebenezer IS** Evidence that leptin acts as a short term satiety factor
- 119P **Ebenezer IS** Nicotine dependence and the contingent negative variation in rats
- 120P **Shih M-F & Taberner PV** Effects of forskolin on adipose tissue cAMP accumulation during chronic ethanol treatment
- 121P **Croft AP, O'Callaghan MJ & Little HJ** Effects of chronic ethanol consumption and abstinence on D1-like receptor binding
- 122P **Matthews KL, Heslop KE, Chapman PF & Francis PT** Biochemical characterisation of mice transgenic for a mutation in amyloid precursor protein (APP) known to cause familial Alzheimer's disease
- 123P **Amantea D, Tessari M, Chiamulera C & Bowery NG** (-)Baclofen reduces [³H]-dopamine release from rat ventral tegmental area slices via GABA_B receptor activation
- 124P **Princivalle AP, Duncan JS, Thom M & Bowery NG** GABA_B receptor distribution in hippocampi resected from patients with temporal lobe epilepsy: antagonist binding
- 125P **Harrison PK, Sheridan RD, Green AC & Tattersall JEH** Spectrum of anticonvulsant activity against soman-induced bursting in the guinea-pig *in vitro* hippocampus
- 126P **Jagger L, Parker L, Hope DT & Mason R** Effect of magnesium ions on bicuculline-induced epileptiform activity in hippocampal organotypic slices and monolayer hippocampal neuronal networks

- 127P **Watson WP** Comparison of levetiracetam and phenytoin in 6Hz versus 60 Hz electroshock seizure models
- 128P **Smith AJ, Atack JR & Sur C** The $[K^+, Cl^-]$ -co-transport inhibitor R(+)-DIOA selectively inhibits GABA-stimulated $^{36}Cl^-$ ion influx at diazepam-insensitive human recombinant GABA_A receptor subtypes
- 129P **Singewald N, Salchner P & Sharp T** Anxiogenic drugs induce FOS expression in a specific set of forebrain regions in the rat
- 130P **Haughey J, Bacon CL, Gallagher HC & Regan CM** Modulation of cyclin protein expression during the C6 glioma G1 phase by the anticonvulsant, valproate
- 131P **Duxon M, Stretton J, Porter R, Pilleux J-P, Martin JD & Upton N** Evidence that orexin-A-evoked grooming, but not water intake, in the rat is mediated by the orexin-1 (OX₁) receptor
- 132P **Garlton J, Duxon M, Porter R, Pilleux J-P, Hagan JJ, Hunter AJ, Upton N & Jones DNC** Role of OX₁ and OX₂ receptors in mediating the motor activity response to the orexins
- 133P **Dempsie Y, Smith S, Cheetham S, Mason R & Guerin C** Co-localisation of neuropeptide Y5 receptors on neurons containing orexin A, orexin B or melanin concentrating hormone in the rat lateral hypothalamus
- 134P **Boothman LJ, Allers K, Rasmussen K & Sharp T** Electrophysiological evidence for 5-HT₂ receptor-mediated control of 5-HT cell firing in the dorsal raphe nucleus of the anaesthetised rat
- 135P **Tordera R, Pei Q & Sharp T** The 5-HT₂ agonist DOI increases the expression of the immediate early genes *arc*, *homer*, *c-fos* and *zif-268* in rat brain regions *ex vivo*
- 136P **Langmead CJ, Watson J, Herdon HJ, Scott CM & Price GW** Effects of 5-HT, fenfluramine, ketanserin and the 5-HT autoreceptor antagonist, SB-272183, on basal $[^3H]5-HT$ release from guinea-pig cortical slices in the presence and absence of paroxetine
- 137P **Díaz A, Castro ME, del Olmo E & Pazos A** Effect of chronic fluoxetine in combination with WAY 100635 on 5-HT_{1A} receptors: an autoradiographic and electrophysiological study in rat brain
- 138P **Sergides IY, van der Graaf PH, Tang KW & Naylor AM** Species differences in the apparent potency of serotonin re-uptake inhibitors (SRIs) at the human, dog and rat serotonin transporters
- 139P **Scott C, Shaw TE, Soffin EM, Davies CH, Harries MH, Price GW, Middlemiss DN & Watson J** Investigation of high and low agonist affinity states of 5-HT_{1A} receptors in rat hippocampus
- 140P **Alder JT, Johanssen AM & Strange PG** The affinity and efficacy of a series of dipropylaminotetralins at the h5-HT_{1A} receptor
- 141P **Sartori S, Burnet PWJ, Pei Q, Singewald N, Harrison PJ & Sharp T** Chronic antidepressant drug treatment does not alter neurokinin-1 receptor expression in the rat brain regions
- 142P **Mechan AO, Esteban B, Colado MI, Elliott JM & Green AR** Studies on the mechanisms involved in the degeneration of dopamine nerve endings in mouse brain following administration of MDMA ('Ecstasy')
- 143P **Price KL & Lummis SCR** The role of tyrosine residues in the extracellular domain of the mouse 5-HT₃ receptor
- 144P **Naseem AA, Brown JT, Comet M-A, Marsland H & Prince RJ** Site-directed mutagenesis of $\alpha 3\beta 4$ neuronal nicotinic acetylcholine receptor agonist binding sites
- 145P **Jones SC, Troop HM, Jane DE & Roberts PJ** Pharmacological characterization of novel AMPA receptor ligands in rat brain
- 146P **Pei Q, Bullard E, Sprakes ME, Zetterström T & Sharp T** Effect of chronic electroconvulsive shock and antidepressant drugs on mRNA expression of AMPA receptor subunits in the rat brain
- 147P **Devadasan C, Starr BS & Doyle KM** The effect of the co-administration of eliprodil with memantine in naïve and reserpinised rats
- 148P **Nelson RM, Green AR, Lambert DG & Hainsworth AH** Effects of extracellular calcium removal, NPPB and DL-TBOA on glutamate efflux from rat cortical prisms in response to simulated ischaemia *in vitro*
- 149P **O'Dwyer L, Rowan MJ & Anwyl R** A presynaptic GluR5 kainate receptor modulates excitatory synaptic transmission in the medial perforant path-granule cell synapse in the rat dentate gyrus
- 150P **Li S, Anwyl R & Rowan MJ** Methoctramine induces a fast onset, long-lasting potentiation in the hippocampal CA1 region of the anaesthetised rat
- 151P **Murphy KJ, Lynch MA & Regan CM** Neuroplastic events required for LTP and avoidance learning are impaired by opiate addiction
- 152P **Shakesby AC, Anwyl R & Rowan MJ** GABA-ergic and glutamatergic mechanisms in stress modulation of synaptic plasticity in the hippocampus of anaesthetised rats
- 153P **Brazdil R, Kozlowski CM, Clayton NM, Stratton SC & Bountra C** Inhibition of colorectal distension-induced c-fos expression in the spinal cord following MK801 and GV196771 in the anaesthetised rat
- 154P **Martindale J, Bland-Ward PA & Chessell IP** Secondary hyperalgesia following intraplantar capsaicin injection in the anaesthetised rat
- 155P **Gray RA, Lappin SC & Chessell IP** Modulation of voltage-gated calcium and potassium currents by selective adenosine A1 receptor agonists in rat isolated dorsal root ganglion cells
- 156P **Medhurst S, Bowes M, Kidd BL, Glatt M, Muller M, Hattenburger M, Vaxelaire J, O'Reilly T, Green J, Fox AJ, Urban L & Walker K** Antinociceptive effects of the bisphosphonate, zoledronic acid, in a novel rat model of bone cancer pain

- 157P **Brown T, Clayton N, Stratton S, Bountra C & Sheehan M** The anti-hyperalgesic effects of the high and low intrinsic efficacy adenosine receptor agonists GR79236X and GR190178X in a mouse model of inflammatory hyperalgesia
- 158P **McNair K, Kesingland A, Urban L & Fox A** The role of central and peripheral bradykinin B1 receptors in models of neuropathic and inflammatory pain in the rat
- 159P **Panesar MS, Bevan S & Urban L** Pharmacological evaluation of the mouse model of compound 48/80 induced itch
- 160P **Finn DP, Beckett SRG, Webster P, Sconce J, Sahota A, Jhaveri MD, Marsden CA & Chapman V** Cannabinoid CB₁ receptors in the periaqueductal grey may modulate formalin-evoked pain behaviour in rats
- 161P **Mato S, Rodriguez-Puertas R, González-Maeso J, Meana J, Sallés J & Pazos** Cannabinoid receptors in postmortem human brain: a radiometric and transductional study in major depression
- 162P **Ralevic V, Kendall DA, Jerman JC, Middlemiss DN & Smart D** Cannabinoid activation of recombinant and endogenous vanilloid receptors
- 163P **Litchfield M, Ralevic V & Kendall DA** No influence of cannabinoids on electrically-stimulated release of [³H]-noradrenaline from rat atria
- 164P **Ihenetu K, Molleman A, Parsons ME & Whelan CJ** Modulation of interleukin-8 (IL-8) secretion in the human colon epithelial cell line HT-29 by cannabinoids
- 165P **Pula G, Mundell S, Matharu AL, Roberts PJ & Kelly E** Agonist-induced internalisation of mGluR1 splice variants A and C (mGluR1A and mGluR1C)
- 166P **Croucher MJ, Jane DE & Thomas LS** Actions of the mGluR subtype 5 ligands, DHPG and MPEP, on neuronal glutamate release *in vitro* and *in vivo*
- 167P **Nickolls SA & Strange PG** Activation of Gai₂ by D2 (ser³¹¹ cys), a naturally-occurring polymorphism of the human D_{2L} receptor
- 168P **Gazi L, Nickolls SA & Strange PG** Human dopamine D_{2L(long)} receptor coupling to G_{ai2} and G_{ao} G proteins in Sf9 insect cells
- 169P **Latif ML, Chevali M, Rehman S & Hill SJ** Simultaneous detection of agonist-stimulated activation of cyclic AMP response element (CRE)- and serum response element (SRE)-mediated gene transcription in HEK-293 cells
- 170P **Jackson AM, Hill SJ & Alexander SPH** The role of capacitative calcium entry in muscarinic receptor-mediated enhancement of A_{2B} adenosine receptor-induced cyclic AMP generation in HEK 293 cells
- 171P **Quirk K, Lawrence T, Harvey V, Misra A, Jones J, Sheardown M & Knight A** Comparison of [³H]ZM-241385 binding to adenosine A_{2A} receptors from rat striatum and cortex
- 172P **Cordeaux Y, Ijzerman AP & Hill SJ** Structure-function relationships of NECA analogues at A1 adenosine receptors
- 173P **Abdul-Hamid MA, Cousins ID, Harriss DR & Hill SJ** [³H]-inositol phosphate responses to histamine mediated by a histamine-H₁ receptor coupled to G₁₁ but not G_q protein in primary human prostatic stromal cells
- 174P **Self TJ, Oakley SM, Flavin FM, Scott A, Ting KN & Hill SJ** Characterisation of a GFP tagged human H₁ receptor expressed in CHO-K1 cells
- 175P **Watt GF, Shankley NP, Hull RAD & Black JW** Transient histamine H₁ receptor-mediated agonist responses may yield erroneous pK_A estimates: application of equilibrium and kinetics models of agonist action

DEMONSTRATIONS

- 176P **Ryan GE, Abbot SE, Pfaller W & Ryan MP** Comparison of TNF-α and IL-1β-mediated IL-6 production in a novel human renal co-culture perfusion system
- 177P **Murdock M & Scholfield CN** Robust and simple software/hardware to record muscle contractions in the practical class

ABSTRACTS FROM SYMPOSIA PRESENTED AT THE MEETING

Abstracts from symposia have not been subjected to the refereeing process undergone by the other communications presented at the meeting

CELLULAR AND INTRACELLULAR TARGETING OF DRUGS

Tuesday 3rd July 2001

- | | |
|--|---|
| <p>178P Low PS, Leaman CP, Reddy JA, Green MA, Mathies C, Turk MJ, Walters DJ, Lu J, Lee RJ & Kennedy M Folate-mediated delivery of therapeutic and imaging agents to cancer tissue <i>in vivo</i></p> <p>179P Wadia J & Dowdy SF Anti-cancer protein therapy: transduction of tumor suppressor proteins <i>in vivo</i></p> <p>180P Rothbard JB Utility of oligomers of arginine to enhance topical delivery and oral bioavailability of a variety of drugs</p> | <p>181P Chavrier P Function of Rho GTP-binding proteins in actin dynamics during phagocytosis</p> <p>182P Mostov K Epithelial polarity and morphogenesis</p> <p>183P Lo D, Mah S, Hilbush Bm Byrne D, O'Mahony D & Brayden D Applying TOGA™ technology to find biologically relevant genes in Peyer's Patch epithelium development</p> |
|--|---|

DRUG DELIVERY IN THE NEW MILLENNIUM

Tuesday 3rd July 2001

- | | |
|---|--|
| <p>184P Pinilla C, Lambkin I, Hamashin C, Osthues L, Higgins L, Russell S, Dee J, Schink A, Houghten R & O'Mahony D Use of mixture-based combinatorial libraries to identify ligands that target receptors in the gastrointestinal tract</p> <p>185P Higgins LM, Donnelly GG, Lambkin I, O'Malley D, Dee J, Byrne D, Smith M, Brayden D & O'Mahony D Screening phage display libraries <i>in vivo</i> for the identification of intestinal targeting ligands</p> <p>186P Cudmore S, Harvie P & Paul R Evaluation of targeted lipid-protamine-DNA (LPD) complexes for gene delivery applications</p> <p>187P Paul RW Experiences with gene delivery using non-viral and viral systems</p> <p>188P Lazarides E <i>In vivo</i> phage display of peptide libraries: for the identification of novel chemical leads and therapeutic drug monitoring</p> | <p>189P Glenn GM Transcutaneous immunization: targeting Langerhans cells with adjuvants</p> <p>190P Eppstein DA Noninvasive delivery of biopharmaceuticals through the skin by controlled infusion through MiroPors™ created in the stratum corneum</p> <p>191P Payne LG Vaccine delivery across the skin surface using needle-free Powderject technology</p> <p>192P Allicotti G, Pinilla C, Hamashin C, Russell S, Osthues L, Moya-Castro R, Schink A, Lambkin I & O'Mahony D Development of a flow-cytometry procedure for characterization of novel lectin mimetics <i>in vitro</i></p> <p>193P Pinilla C, Martin R, Zhao Y & Simon R The integration of positional scanning libraries with bioinformatics and proteomics</p> |
|---|--|

NOVEL THERAPEUTIC TARGETS IN INFLAMMATORY DISEASE

Wednesday 4th July 2001

- 194P **Sewell L, Tami J, Geary R, Mant T, Dorr A & Glover J** Phase I study of s.c. and i.v. ISIS 104838 (anti-TNF α), a second generation antisense oligonucleotide

MECHANISMS OF DRUG ADDICTION

Thursday 5th July 2001

- | | |
|--|---|
| <p>195P Koob GF Drug addiction, reward dysregulation and allostasis</p> <p>196P Maldonado R Involvement of different opioid receptors and peptides in cannabinoid dependence</p> <p>197P Everitt B Associative mechanisms in addiction: prospects for treatment</p> | <p>198P Crews FT Genetics and age-related contributions to long-term changes in CNS structure and function following binge drinking</p> <p>199P Hagan JJ, Vorel SR, Ashby Jr. CR, Paul M, Liu X, Hayes R, Middlemiss DN & Gardner EL The role of dopamine D₃ receptors in drug abuse</p> |
|--|---|