### **ORAL COMMUNICATIONS**

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

- 1P Cutler DJ, Sheehan MJ & Beresford IJM Adenosine A<sub>1</sub> receptor dual-coupling: pertussis toxin (PTX)sensitive and -insensitive mechanisms
- 2P Mistry R, Golding N & Challiss RAJ Regulation of phosphoinositide turnover in neonatal cerebral cortex by group I- and II-selective metabotropic glutamate receptor agonists
- 3P Mundell SJ, Luty J, Benovic JL & Kelly E Overexpression of G protein-coupled receptor kinase 2 enhances the sensitivity of adenosine A<sub>2a</sub> receptors to desensitisation
- 4P Beaumont V, Kelly E & Henderson G Mechanisms of somatostatin receptor desensitization in NG108-15 cells
- 5P Lummis SCR, Fletcher EJ & Green T Identification of amino acids in the N-methyl-D-aspartate (NMDA) receptor NR2 subunit that contribute to the glutamate binding site
- 6P George SJ, Birkett S, Jeremy JY & Angelini GD Depletion of intracellular calcium pools with thapsigargin inhibits the migration of A7r5 cells *in vitro*
- 7P McKenna F & Ashford MLJ Imidazole antimycotics inhibit BK<sub>Ca</sub> channels stably expressed in HEK 293 cells
- 8P Goodwin PA, Richards CD & Wann KT Single channel activity in excised inside-out patches from rat hippocampal neurones
- 9P Mitchell AL, Phipps S, Grahame-Smith DG & Elliott JM Novel regulation of human 5-HT<sub>2A</sub> receptors by mesulergine in vitro
- 10P Richards JG, Messer J, Bleuel Z, Malherbe P, Klingelschmidt A, Clifford MM, Ellis GJ & Mutel V In vitro binding characteristics of a potent, selective AMPA receptor antagonist, [3H]Ro 48-8587, in rat brain
- 11P Ferro A, Queen LR & Ritter JM Isoprenaline activates adenylyl cyclase in human umbilical vein endothelial cells through selective stimulation of  $\beta_2$ -adrenoceptors
- 12P Smart D, Coppell A & McKnight AT Characterisation using the Cytosensor microphysiometer of recombinant human corticotrophin-releasing factor (CRF) receptor pharmacology
- 13P Michel AD, Chessell IP & Humphrey PPA Potent inhibition of P2Z (P2X<sub>7</sub>) receptor-mediated effects by copper, zinc and nickel ions
- 14P Cicala C, Bucci M, De Domenicis G & Cirino G A role for thrombin and proteinase-activated receptor 1 (PAR1) in guinea-pig bronchospasm
- 15P **Pierre LN & Davenport AP** Importance of constrictor ET<sub>A</sub> receptors in pial artery from human brain revealed by potent nonpeptide endothelin antagonists
- 16P Maguire JJ & Davenport AP Preservation of functional responses of human coronary arteries to ET-1 and 5-HT after 14 days in organ culture

- 17P Yard NJ, Brown TJ, Roach AG & Garland CJ Interactions between ET<sub>A</sub> and ET<sub>B</sub> receptor-mediated contractions in the rabbit isolated pulmonary artery
- 18P Woods M, Bishop-Bailey D, Pepper JR, Evans T, Mitchell JA & Warner TD Cytokine and LPS stimulation of endothelin-1 release from internal mammary artery and saphenous vein smooth muscle cells
- 19P Bishop-Bailey D, Pepper JR, Larkin S, Evans T & Mitchell JA Differential induction of cyclooxygenase-2 in human arterial and venous smooth muscle cells: role of endogenous prostanoids
- 20P Bishop-Bailey D, Pepper JR, Larkin S, Evans T & Mitchell JA Interleukin-1β induces anti-proliferative prostanoids via cyclo-oxygenase-2 in human saphenous vein and internal mammary artery smooth muscle cells
- 21P Bishop-Bailey D, Burke-Gaffney D, Hellewell PG, Evans T & Mitchell JA Interleukin (IL)-1β-induced cyclo-oxygenase-2 activity inhibits IL-1β-induced expression of ICAM-1- and IL-4-induced expression of VCAM-1 on saphenous vein smooth muscle cells
- 22P Hamilton LC, Mitchell JA & Warner TD Induction of COX-2 in vivo leads to greatly increased production of 6-keto-PGF $_{1\alpha}$  following administration of exogenous arachidonic acid or bradykinin
- 23P White R & Hiley CR Comparison of the vasorelaxation caused by endothelium-derived hyperpolarizing factor (EDHF) and anandamide in the small mesenteric artery of the rat
- 24P Kirkup AJ, Grundy D, Chessell IP & Humphrey PPA Characterisation of the receptor mediating the excitatory action of adenosine on mesenteric afferents
- 25P Khakh BS & Henderson G Interactions between P2X receptors and the hyperpolarisation-activated cationic current (I<sub>H</sub>) in sensory neurones of the rat
- 26P Evans KS, Scott CM & Bountra C The effect of ibuprofen, morphine and amitriptyline on carrageenan-induced cutaneous hypersensitivity in the anaesthetised rat
- 27P Clayton NM, Ward P, Munglani R, Keeling S & Bountra C Effect of the neurokinin 1 (NK<sub>1</sub>) receptor antagonist GR205171 on adjuvant-induced inflammatory pain in the rat
- 28P Nicholson JR, Paterson SJ & McKnight AT The effect of nociceptin, nociceptin analogues and a novel hexapeptide agonist at the ORL<sub>1</sub> receptor in central and peripheral sites
- 29P Pozza MF, Schoeffel C, Olpe H-R & Evans RH Antagonist potency of the NK1 receptor antagonist CGP49823 at spinal motoneurones
- 30P Kozlowski CM, Grundy D, Bountra C & Trezise D
  The effect of deoxycholic acid on dorsal horn
  responses to colorectal distension and cutaneous
  mechanical stimulation, and the effect of MK-801, in
  the anaesthetised rat
- 31P Trezise DJ, John VH & Xie X Electrophysiological studies on the effects of lamotrigine on rat dorsal root ganglion neurones in vitro

- 32P Bonifácio MJ, Vieira-Coelho MA, Borges N & Soares-da-Silva P Kinetics of membrane bound, solubilized membrane bound and soluble forms of rat liver catechol-O-methyl-transferase
- 33P Vieira-Coelho MA, Borges N & Soares-da-Silva P Sensitivity to inhibition by tolcapone of soluble and membrane-bound forms of catechol-O-methyltransferase from rat brain, liver and kidney
- 34P Soares-da-Silva P, Serrão MP & Vieira-Coelho MA Uptake and intracellular fate of L-3,4-dihydroxy-phenylalanine, the dopamine precursor, in porcine renal LLC-PK<sub>1</sub> cells
- 35P **Bundey RA, Jones P & Kendall DA** Transfection of the noradrenaline transporter into the CATH.a cell line
- 36P Faber ESL, Chambers JP & Evans RH Effect of dexmedetomidine on NMDA receptor-mediated synaptic transmission in the neonatal rat hemisected spinal cord preparation *in vitro*
- 37P Pinkney JM, Kingston WP, Jane DE, Watkins JC & Pook PC-K Characterisation of novel phenylglycines for subgroup I metabotropic glutamate receptors on the neonatal rat spinal cord preparation
- 38P Wooltorton JRA, McDonald BJ, Moss SJ & Smart TG Zinc inhibition of  $\beta 3$  subunit containing GABAA receptors relies on a histidine residue located within the second transmembrane domain
- 39P Hand K, Simmonds MA, Bowery NG, Van Paesschen W & Duncan J Increased expression of mRNA encoding GABA<sub>A</sub> receptor subunits α1 and α4 associated with hippocampal sclerosis in human patients with temporal lobe epilepsy
- 40P Baird VH, Van Paesschen W, Duncan JS & Bowery NG NMDA receptor autoradiography and direct 3D-cell counting in resected hippocampus of patients with temporal lobe epilepsy
- 41P Smith JW, Watson WP, Stephens DN & Little HJ Effect of the calcium channel antagonist, nimodipine, in decreasing responding for the oral self administration of low concentrations of ethanol
- 42P Watson WP & Little HJ Increased stimulant effects of amphetamine and cocaine are seen seven days after cessation of chronic barbital treatment in mice
- 43P Finberg JPM, Armony T & Lamensdorf I Microdialysis study of the modification of striatal dopamine release by chronic treatment with selective inhibitors of MAO-A and MAO-B in the guinea-pig

- 44P Zeng B-Y, Tel BC, Pearce RKB, Smith LA, Chancharme L, Salvage S, Jenner P & Marsden CD Neuroprotective effect of modafinil against MPTP toxicity in MPTP-treated common marmosets
- 45P Cho K & Little HJ Effects of corticosterone on the activity of dopamine-sensitive neurones in the ventral tegmental area
- 46P Smith JJ, Plane F & Garland CJ Modulation of cyclic GMP-mediated dilatation in the rat isolated mesenteric artery by basally released nitric oxide
- 47P Emsley A, Plane F, Angelini GD & Jeremy JY Copper interacts with homocysteine to inhibit nitric oxide formation in the rat isolated aorta
- 48P Morton MJ, Sivaprasadarao A, Bowmer CJ, Yates MS, Adenosine receptor mRNA levels during postnatal maturation of rat kidney
- 49P Menton K, Morgan RM, Spedding M & Markham A Further characterisation of the antagonistic action of pyridylisatogen on the isolated taenia of the guinea-pig caecum
- 50P Tuladhar BR, Kaisar M & Naylor RJ 5-HT<sub>3</sub> receptor involvement in the facilitation of peristalsis on mucosal application of 5-HT in the guinea-pig isolated ileum
- 51P Choppin A, Eglen RM & Hegde SS Characterisation of muscarinic receptors in the rabbit iris sphincter muscle
- 52P Chua CB, Harriss DR, Marsh KA & Hill SJ Rapid desensitization of muscarinic M<sub>3</sub>, but not histamine H<sub>1</sub>, receptors in primary human detrusor smooth muscle cells
- 53P Kibble A, Morrison J, Davey D & Bushfield M Facilitation of neuronally-mediated contractions of the rat urinary bladder in vitro by tachykinin NK<sub>1</sub> and NK<sub>2</sub> but not NK<sub>3</sub> receptor activation
- 54P Shih M-F, Williams CA, Pfeiffer B, Manechez D & Taberner PV Effects of S-22068, an imidazoline derivative, on acute glucose tolerance and plasma insulin levels in mice
- 55P Chan SLF, Smith NG & Morgan NG Development and characterization of polyclonal anti-efaroxan antibodies for use in purification of islet imidazoline receptors
- 56P Ashford MLJ & Harvey J Leptin activation of K<sub>ATP</sub> channels is mimicked by tyrosine kinase inhibitors in CRI-G1 insulin secreting cells

### POSTER COMMUNICATIONS

- 57P Baker SR, Clark BP, Goldsworthy J, Harris JR, Kingston AE & Lodge D Metabotropic glutamate receptors (mGluR1): 2-substituted phenylglycines as selective antagonists
- 58P **Evans NM, Kingston A & Lodge D** Ligands of group 1 metabotropic glutamate receptors (mGluRs) exhibit low affinity binding characteristics to mGluR1α
- 59P Small BG, Baker SR, Rubio A, Sharpe EF Ballyk BA, Hoo K, Mandelzys A, Kamboj R, Lodge D & Bleakman D LY339434, a GluR5-selective kainate receptor agonist
- 60P Smith JJ, Bufton HR & Kilpatrick IC Activation of group III metabotropic glutamate receptors is unlikely to account for quisqualate-induced sensitisation to L-2-amino-4-phosphobutanoate in neonatal rat spinal cord

- 61P Dai W, Ebert B, Madsen U & Lambert JDC Studies of the interactions of (2S,4R)-4-methyl-glutamate and ATPO with AMPA and kainate receptors on cultured rat neurones
- 62P Neil KE, Hernández F, Kendall DA & Alexander SPH Differentiation of KCl-, NMDA- and glutamate-evoked cGMP accumulations in the guinea-pig cerebellum
- 63P Mugnaini M, Dal Forno G, Corsi M & Trist DG Receptor binding characteristics of the novel NMDA receptor glycine site antagonist [3H]-GV 150526A in rat cerebral cortical membranes
- 64P Eldursi N, Mellor IR & Usherwood PNR Comparison of NMDA receptors expressed in *Xenopus* laevis oocytes following injection of rat brain RNA and mRNA encoding the NR1A subunit

- 65P Lione LA, Nutt DJ & Hudson AL Autoradiographical localisation of imidazoline I<sub>2</sub> sites labelled with [3H]2-(2-benzofuranyl)-2-imidazoline in rabbit brain
- 66P Tyacke RJ, Nutt DJ, Chan SLF, Ramsden CA, Morgan NG & Hudson AL Affinities of efaroxan derivatives for α<sub>2</sub>-adrenoceptors and I<sub>2</sub>-binding sites in rat brain membranes
- 67P Lalies MD, Nutt DJ & Hudson AL Chronic clorgyline and deprenyl treatment decrease imidazoline<sub>2</sub> site density in rat interpeduncular nucleus
- 68P Parker CA, Hudson AL & Nutt DJ Autoradiography of [3H]mivazerol binding in the rat heart
- 69P Leppik RA, Lazareno S, Mynett A & Birdsall NJM The allosteric interactions of antagonists with amiloride analogues at the human α<sub>2a</sub>-adrenoceptor
- 70P Zhu Q-M, Knittle DE, Eglen RM & Blue Jr DR Effect of intravenously-administered clonidine, rilmenidine and moxonidine on blood pressure and heart rate in conscious wild-type and mutant D79Nα<sub>2A</sub>-adrenoceptor (α<sub>2A</sub>-AR) mice
- 71P Capner CA, Chizh BA, Herrero JF & Headley PM Comparison of the spinal versus supraspinal antinociceptive actions of four α<sub>2</sub>-adrenoceptor agonists in chloralose anaesthetised rats
- 72P McClean M, Headley PM & Parsons CG Mrz 2/ 576, a glycine site antagonist, blocks spinal neuronal responses and shows analgesic properties in behavioural tests
- 73P Suthamnatpong O & Morris R Responses of neurones in the outer dorsal horn of rat lumbar spinal cord slices to a selective neurokinin 1 receptor agonist
- 74P Ciucci A, Palma C, Manzini S & Werge TM Single amino acid substitution stabilizes high affinity state of the NK-1 tachykinin receptor for neurokinin A and B
- 75P Smith EJ, Scott CM & Bountra C The neurokinin 1 (NK<sub>1</sub>) receptor antagonist GR205171 reduces carrageenan-evoked Fos-like immunoreactivity in the rat lumbar spinal cord
- 76P McLean PG, Garcia-Villar R, Fioramonti J & Buéno L Characterisation of the tachykinin receptors mediating the jejunal distension-induced visceral pain reflex in rats
- 77P Costa SKP, de Nucci G, Antunes E & Brain SD Phoneutria nigriventer spider venom induces oedema formation in rat skin by activation of capsaicinsensitive primary afferent neurons
- 78P Bennett GS, Holden PH, Asopa AV, Robertson AGS, Allen SJ, Dawbarn D & Brain SD Inhibition of nerve growth factor-induced plasma extravasation in rat skin by immunoglobulin-like domains of nerve growth factor receptor trkA
- 79P Michael-Titus AT, Whelpton R, Stephens SM & Yau KW Metabolism of substance P in rat striatum studied using a combination of high performance liquid chromatography (HPLC) and capillary electrophoresis (CE)
- 80P Cover PO, Slater D & Buckingham JC Endotoxininduced cyclooxygenase expression in the hypothalamopituitary-adrenal axis
- 81P Philip JG, Flower RJ & Buckingham JC The cellular expression of lipocortin 1 is unaffected by drugs which block the classical pathway of protein secretion

- 82P Castro RC, Landucci ECT, Giglio JR, Cirino G, Antunes E & de Nucci G Inflammatory responses induced by two secretory phospholipases A<sub>2</sub> (sPLA<sub>2</sub>) homologues isolated from snake venom
- 83P Goren MZ, Richards DA, Turner H & Bowery NG Extracellular GABA levels are increased in brain regions associated with the generation of absence seizures
- 84P **Postlethwaite M, Constanti A & Libri V** Epileptiform potentials induced by muscarinic but not metabotropic-glutamate receptor activation in immature rat olfactory cortex, *in vitro*
- 85P Dale TJ, Cater H, John VH & Xie X Comparison of the effects of the anti-convulsant drug lamotrigine with sodium valproate and gabapentin on human brain type IIa Na+ channels expressed in a mammalian cell line
- 86P Molleman A, Beaumont V & Henderson G Opioid receptor activation does not modulate potassium channel current in NG108-15 and SH-SY5Y cells
- 87P Delpón E, Caballero R, Valenzuela C Franqueza L, Longobardo M, Snyders DJ & Tamargo J Dual effects of benzocaine on a human cardiac cloned potassium channel (hKv1.5)
- 88P Longobardo M, Franqueza L, Caballero R, Delpón E, Tamargo J & Valenzuela C Block of hKv1.5 channels by R(+)-ropivacaine and R(+)-mepivacaine: structure-activity relationship
- 89P Boot JR, O'Brien A & Tran S Pharmacological studies using human voltage-dependent calcium channels
- 90P **Bufton HR, Lodge D & Kilpatrick IC** Evidence for the involvement of different calcium channel subtypes in mediating transmission from primary afferent subsets in the neonatal rat spinal cord
- 91P Rennie KJ, Ashmore JF & Correia MJ Evidence for a Na/K/2Cl cotransporter in type I hair cells isolated from the mammalian vestibular system
- 92P **De Silva HA & Aronson JK** Interaction between the Na+/K+/2Cl- and K+/Cl- co-transporters in human platelets
- 93P Mundey MK, Ali A, Mason R & Wilson VG A comparison of the effects of morphine and naloxone on ventral tegmental area, locus coeruleus and suprachiasmatic nucleus neuronal activity in vitro
- 94P Cao CQ, Headley PM & Evans RH Selective depression of NMDA receptor-mediated component of monosynaptic currents of rat spinal motoneurones by morphine *in vitro*
- 95P Manuel NA & Davies CH Pharmacological modulation of depolarizing GABA<sub>A</sub> receptor-mediated IPSPs in rat hippocampal CA1 pyramidal neurones
- 96P Marshall DL, Redfern PH & Wonnacott S Influence of nicotine on caffeine-stimulated dopamine release from rat striatum and nucleus accumbens
- 97P Kulkarni RS, Roe CH, Kendall DA & Alexander SPH Effects of L-serine-O-phosphate on dopamine overflow in rat striatum *in vivo* and *in vitro*
- 98P Iravani MM, Asari D, Patel J, Wieczorek WJ & Kruk ZL Effects of 3,4-methylenedioxy-methemphetamine on dopamine and serotonin release and uptake
- 99P Hughes ZA & Stanford CS A serotonergic lesion does not affect inhibition of uptake of [3H]noradrenaline into rat cortical synaptosomes by fluoxetine, citalopram and desipramine

- 100P Wortley KE, Hughes ZA, Mason K, Heal D & Stanford CS Comparison of the effects of sibutramine and d-amphetamine on the concentration of extracellular noradrenaline in rat frontal cortex: a microdialysis study
- 101P Sherriffs HJ, Challiss RAJ & Nahorski SR Stimulation of a prolonged, non-desensitizing phospholipase D activity in Chinese hamster ovary (CHO) cells heterologously expressing -m1 or -m3 muscarinic cholinoceptors
- 102P Briddon SJ & Watson SP Evidence for the involvement of an src-like kinase in signalling by a collagen-related paptide in washed human platelets
- 103P **Falati S, Vink T, Sixma J & Poole AW** Von Willebrand factor induces tyrosine phosphorylation of the tyrosine kinase Syk, p95vav and phospholipase Cγ2 in human platelets
- 104P Farahani M, Amrani Y, Panettieri R & Hall IP Protein kinase A-dependent modulation of histamine H<sub>1</sub> receptor coupling in cultured human airway smooth muscle cells
- 105P Bundey RA & Kendall DA Selective inhibition of the carbachol-induced calcium response by CRF in the CATH.a cell line
- 106P Wan BYC, Alderman C, Peh KH & Assem ESK The mode of action of bradykinin and other basic secretagogues on histamine release from rat peritoneal mast cells
- 107P Raidoo DM, Ramsaroop R, Naidoo S & Bhoola KD Visualisation of tissue kallikrein and kinin receptors in human astrocytomas
- 108P Nejad M, Hinton JM, Rice JL & Osborne RH Muscarinic receptors in the locust foregut are linked to inositol phosphates and diacylglycerol
- 109P **Smith JK & Alexander SPH** Time dependency and agonist selectivity for reduction of A<sub>2B</sub> adenosine receptor-evoked cyclic AMP responses in the guineapig cerebral cortex
- 110P Smith JK & Alexander SPH Modulation of of A<sub>2B</sub> adenosine receptor-evoked cyclic AMP generation in the guinea-pig cerebral cortex
- 111P Mundell SJ & Kelly E Inhibitors of receptor internalization block adenosine A<sub>2a</sub> receptor resensitization
- 112P Menton K, Morgan RM, Spedding M & Markham A Disruption of energy metabolism by pyridylisatogen is mediated by the mitochondrial permeability transition in rat hepatic mitochondria
- 113P Michel AD, Hibell AD, Chessell IP & Humphrey PPA Identification and characterisation of endogenous P2Z (P2X<sub>7</sub>) receptors in CHO-K1 cells
- 114P Guyaux M, Gobert J, Noyer M, Vandevelde M & Wülfert E Mivazerol prevents the tachycardia caused by emergence from halothane anaesthesia partly through activation of spinal α<sub>2</sub> adrenoceptors
- 115P Gardiner SM, Kemp PA, March JE & Bennett T Regional haemodynamic effects of human adrenomedullin-(22-52) in the conscious rat
- 116P March JE, Gardiner SM, Kemp PA & Bennett T Cardiovascular responses to N-nitro-L-arginine methyl ester (L-NAME) in conscious, hypertensive transgenic [(mRen-2)27] rats
- 117P Yousif MH, Oriowo MA & Williams KI NO synthase and cyclic GMP involvement in modulating NA-induced vasoconstriction in the perfused rabbit ovarian vascular bed

- 118P Allcock GH, Venema RC, Pollock JS Pollock DM Evidence for increased nitric oxide, but not endothelin-1, production in the kidneys of DOCAsalt hypertensive rats
- 119P Russell FD, Coppell AL & Davenport AP In vitro evidence for endothelin converting enzyme activity in human kidney
- 120P McCulloch AI & Randall MD Effect of gender on the relative contributions of nitric oxide and EDHF to endothelium-dependent relaxations in rat isolated mesenteric arterial bed
- 121P McCulloch AI & Randall MD Relative contributions of nitric oxide and EDHF to endothelium-dependent relaxations in the isolated perfused mesenteric bed from normotensive and hypertensive Brattleboro rats
- 122P Hewitt N, Plane F & Garland CJ Bioassay of EDHF in the rabbit isolated femoral artery
- 123P Randall MD & Kendall DA The involvement of an endocannabinoid in EDHF-mediated vasorelaxation in the rat isolated perfused heart
- 124P Randall MD, McCulloch AI & Kendall DA Comparative pharmacology of EDHF-mediated and anandamide-induced vasorelaxation in the rat isolated superior mesenteric arterial bed
- 125P Harb HL & Moore PK Effect of 7-nitroindazole on endothelium-dependent responses in the rat mesentery in the presence and absence of allopurinol
- 126P Roberts RE, Kendall DA & Wilson VG Evidence for α<sub>2</sub>-adrenoceptor-mediated vasoconstriction in porcine isolated ear artery
- 127P Lewis C, Garland CJ & Plane F Effect of a combination of nitric oxide synthase inhibitors and potassium channel blockers on the acetylcholine relaxation in rabbit mesenteric arteries
- 128P Lewis C, Garland CJ, Angelini GD & Plane F Functional assessment of the freshly isolated porcine saphenous vein
- 129P Yew SF & Woodward B Chelerythrine influences basal and prostaglandin  $F_2\alpha$ -induced increases in rat cardiomyocyte contractility
- 130P Laight DW, Berthelon JJ, Andrews TJ, Carrier M & Änggård EE Assessment of superoxide anion scavenging activity of some common spin traps at physiological temperature and pH by microassay in vitro
- 131P Laight DW, Kaw AV, Carrier M & Änggård EE Cu/ Zn superoxide dismutase activity preserves basal endothelial function in the rat aorta *in vitro*
- 132P Vieira-Coelho MA & Soares-da-Silva P Uptake and intracellular fate of L-3,4-dihydroxyphenylalanine, the dopamine precursor, in Caco-2 cells
- 133P Gomes P, Serrão MP, Vieira-Coelho MA & Soaresda-Silva P Competitive and non-competitive inhibition of of L-3,4-dihydroxyphenylalanine uptake in cultured Opossum kidney cells
- 134P Crankshaw DJ & Popat A Attempts to estimate location parameters for complex concentration-effect curves in human myometrium
- 135P Boersma JI, Janzen KM & Crankshaw DJ Characterization of excitatory prostanoid receptors in the human umbilical artery *in vitro*
- 136P Senchyna M & Crankshaw DJ Effect of excision site and menstrual status on the response of non-pregnant human myometrium in vitro to U46619

- 137P Popat A & Crankshaw DJ Variable responses to prostanoid EP receptor agonists in non-pregnant human myometrium *in vitro*
- 138P Borman RA & Hillier K Further investigation of the 5-HT<sub>2B</sub> receptor in human small intestinal longitudinal smooth muscle
- 139P Croci T, Manara L, Aureggi G, Guagnini F Maffrand JP, Le Fur G, Mukenge S & Ferla G Quantitative antagonism (pA2) by propranolol and CGP 12177A of isoprenaline relaxation of the isolated human colon provides functional evidence of  $\beta_3$ -adrenoceptors
- 140P Lawrence RN, Dunn WR & Wilson VG Evidence for different mechanisms of relaxation by ethanol in isolated pulmonary and coronary arteries from the pig
- 141P Thongsaard W, Ting KN, Marsden CA & Wilson VG The effect of barakol against electrically-evoked contractions of the isolated porcine tail artery and guinea-pig ileum
- 142P Rhodes KF, Buckingham JC & Kennard C Inhibition of nicotine-evoked relaxation of the guineapig isolated basilar artery by indomethacin, aspirin and nitro-L-arginine methyl ester
- 143P Cheng HY, Montgomery R, Alexander SPH & Wilson VG Pre-junctional  $\alpha_2$ -adrenoceptors modulate the non-cholinergic motor response of the porcine isolated bladder
- 144P Perkin-Ball J & Harris NC Is there evidence for GABA<sub>B</sub> receptor subtypes in the rat anococcygeus muscle?
- 145P Medeiros MV, Castro RC, Brain SD, Antunes E & de Nucci G The eosinophil recruitment in bronchoalveolar lavage fluid and pleural cavity from rats treated with capsaicin as neonates
- 146P Tennant JP, Samuel EJ & Hourani SMO Ectonucleotidase activity in the prostatic and epididymal portions of the guinea-pig vas deferens
- 147P Eshragi HR & Zeitlin IJ Bradykinin release in the isolated perfused bovine mammary gland
- 148P Warhurst DA & Court EN The effect of platelet activating factor (PAF) on leukotriene release from rat chopped lung and trachea
- 149P Upton R, Widdowson PS, Kadowaki S & Williams G Improved insulin sensitivity in Zucker and ZDF rats following chronic treatment with the novel thiazolidinedione MCC-555
- 150P Widdowson PS, Upton R, Henderson L, Buckingham R, Wilson S & Williams G Evidence of central NPY receptor up-regulation in dietary-induced obesity in the rat
- 151P Shih M-F, Williams CA, Stone D & Taberner PV Subchronic effects of SR 58611A on glucose tolerance, insulin sensitivity and body weight in normal mice
- 152P Jelic P & Taberner PV Effects of isradipine and nitrendipine on hormone-sensitive lipase activity and lipogenic rate of brown and white adipose tissue in mice
- 153P Shih M-F & Taberner PV Potentiation of glucose tolerance and insulin sensitivity by SR 58611A, a selective  $\beta_3$  adrenoceptor agonist, in normal mice
- 154P Laight DW, Kaw AV, Carrier M & Anggard EE Regulation of endothelial function by insulin in the aorta of the obese/lean Zucker rat in vitro

- 155P Kengatharan KM, Gopaul N, Dhir S, Pet-tersson K, Carrier M & Änggård EE Inhibition of 8-epi-prostaglandin  $F_2\alpha$  production by vitamin E is associated with the reversal of endothelial dysfunction in the cholesterol-fed rabbit
- 156P Overfield JA, Harrison J & Dawson MM Attenuation of cytokine-stimulated fibrinogen synthesis in Hep G2 cells by IL 1β and clofibrate
- 157P O'Neill MJ, Shaw G, Cardwell GP, Ward M O'Neill MF Effects of 7-nitroindazole and L-NAME on MK-801-induced behavioural changes and immediate early gene expression in the mouse
- 158P Ge J, Kilpatrick IC, Long S, Toms NJ & Roberts PJ Effects of the mGlu Receptor agonist (1S,3S)-ACPD on glutamate, aspartate and glycine release in the nucleus accumbens and striatum of the rat
- 159P Patel DR, Young AMJ & Croucher MJ Evidence for cyclothiazide-insensitive presynaptic AMPA receptors in the rat striatum *in vivo*
- 160P Grimwood S, Slater P, Deakin JFW & Hutson PH Selective regional increase in cortical N-methyl-Daspartate receptor glycine sites in schizophrenia
- 161P Tel BC, Zeng B-Y, Pearce RKB, Salvage S Jenner P & Marsden CD Differential effects of ropinirole, bromocriptine and L-DOPA on striatal preproenkephalin and preprotachykinin mRNA epxression in MPTP-treated common marmosets
- 162P Costa S, Pearce RKB, Jenner P & Marsden CD Intraventricular administration of glial-cell-line-derived neurotrophic factor in the MPTP-treated common marmoset
- 163P Brown CT, Riedl AG, Watts P, Rose S & Jenner P Haem oxygenase expression in the substantia nigra of rat and marmoset
- 164P Owen AD, Kunikowska GM, Rose S, Jenner P & Marsden CD Chronic glutathione depletion does not induce MPTP toxicity in the rat
- 165P Kaiser S, Soliakov L & Wonnacott S Inhibition of the nicotinic stimulation of dopamine release from the rat striatum in vitro by  $\alpha$ -conotoxin-MII, an antagonist selective for the  $\alpha3\beta2$  nicotinic receptor subtype
- 166P Patel S & Hutson PH Modulation of nicotinic acetylcholine receptor binding to adult and aged rat brain by galanin
- 167P Watson WP, Clark AM, O'Callaghan MJ & Little HJ Effects of corticosterone treatment on the ethanol preference of the LACG (alcohol avoiding) strain of mice
- 168P O'Neill MF, Conway MW, Giese U, Mest H-J & Blechacz W Lack of effect of selective imidazoline I<sub>2</sub> ligands in forced swim test in mice
- 169P Cowan A, Kehner GB Antagonism by opioids of Compound 48/80-induced scratching in mice
- 170P Cutler DJ, Beresford IJM & Southam E No evidence of melatonin-mediated alterations in cAMP levels in rat suprachiasmatic nuclei (SCN)
- 171P Cutler DJ, Mason R & Beresford IJM Melatonin MEL<sub>1A</sub> receptor-mediated responses as measured by microphysiometry
- 172P Towler PK, Bennett GS, Moore PK & Brain SD The effects of an nNOS inhibitor 1-(2-trifluoromethylphenyl)imidazole (TRIM) on saphenous nerveinduced plasma extravasation in the rat paw

#### **DEMONSTRATIONS**

- 173P **Dewhurst DG & Davies D** A foundation level computer-based interactive tutorial to introduce the physiology of the endocrine system
- 174P **Dewhurst DG & Mistri S** Muscle Physiology: an interactive tutorial based on experiments conducted on frog sciatic nerve gastrocnemius muscle preparation

# ABSTRACTS FROM A SYMPOSIUM ON 'PROTEIN PHOSPHORYLATION: POSSIBILITIES FOR DRUG THERAPY'

23 July 1997

- 175P Nixon J Inhibitors of protein kinase C: their biology and pharmacology
- 176P Chuang TT G-protein-coupled receptor kinases as possible drug targets
- 177P Murray K Inhibition of mitogen-activated protein kinase pathways
- 178P Watson SP, Börsch-Haubold A & Briddon S Regulation of phospholipase A<sub>2</sub> and phospholipase C<sub>7</sub> by phosphorylation
- 179P Barford D Structural studies of protein phosphatases

# ABSTRACTS FROM A SYMPOSIUM ON 'RECENT ADVANCES IN IMIDAZOLINE RECEPTORS'

24 July 1997

- 180P Hudson AL, Lalies MD, Lione LA, Tyacke RJ, Lewis JW & Nutt DJ New ligands for studying imidazoline receptors
- 181P Parini A, Raddatz R, Remaury A & Lanier SM Molecular aspects and properties of imidazoline receptors
- 182P García-Sevilla JA Imidazoline receptors in human brain
- 183P Carpéné C, Marti L, Morin N, Prévot D, Fontana E & Lafontan M Imidazoline I<sub>2</sub> binding sites in adipose tissue: relationship with amine oxidase activity and glucose metabolism
- 184P Morgan NG, Chan SLF & Mourtada M Imidazoline receptors in the endocrine pancreas: possible therapeutic targets?
- 185P Reid JL Imidazoline receptors in hypertension

# ABSTRACTS FROM A SYMPOSIUM ON 'NOVEL TARGETS FOR THE DRUG TREATMENT OF DIABETES'

25 July 1997

- 186P **Taberner PV** The pharmacological basis of diabetes therapy: an overview
- 187P Carpéné C, Marti L, Fontana E, Morin N, Prevot D & Enrique-Tarancon G Effects of tyramine and β-adrenergic agonists on glucose transport in white adipocytes in vivo and in vitro
- 188P Oatey PB, van Weering D, Dobson SP, Bos H, Gould GW & Tavare JM Imaging GLUT4 trafficking in single living cells using green fluorescent protein
- 189P Ganellin CR, Rose C, Vargas F, Facchinetti P, Bourgeat P, Bambal R, Bishop PB, Chan SMT, Moore ANJ & Schwartz J-C Rational design of butabindide, the first inhibitor of the cholecystokinin (CCK-8) inactivating peptides
- 190P Young P, Buckingham R & Smith SA Insulin sensitizers for the treatment of non-insulin-dependent diabetes
- 191P Holst JJ The treatment of diabetes with glucagonlike peptide (GLP1)