

ORAL COMMUNICATIONS

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

- 1P **Irvine EE, Cheeta S & File SE**
Development of tolerance to the anxiogenic effect of nicotine is mediated by the dorsal hippocampus
- 2P **Vieira-Coelho MA, Borges N, Parada A, Learmonth DA, Benes J & Soares-da-Silva P**
BIA 3-202, a long-acting catechol-*O*-methyltransferase inhibitor with limited brain access
- 3P **Parada A, Loureiro AI, Vieira-Coelho MA, Hainzl D & Soares-da-Silva P**
BIA 3-202 enhances the availability of L-DOPA to the brain and reduces its *O*-methylation
- 4P **McNamara F, Clifford J, Kinsella A, Accili D, Fuchs S, Drago J, Croke D & Waddington J**
Topographically based specification of behavioural phenotype in congenic mice with targeted gene deletion of the D₃ dopamine receptor
- 5P **Marston DL & Strange PG**
Increase in efficacy and potency of dopamine D_{2short} receptor agonists following sodium butyrate treatment
- 6P **Bonifácio MJ, Vieira-Coelho MA, Costa JL & Soares-da-Silva P**
Kinetics of native and a recombinant form of rat soluble catechol-*O*-methyltransferase
- 7P **Wiley KE & Davenport AP**
Nitric oxide is a more effective physiological antagonist of endothelin-1 – than U46619 – mediated constrictions in human coronary artery
- 8P **Shukla N, Taberner PV, Thompson CS, Mikhailidis DP, Morgan RJ, Angelini GD & Jeremy JY**
Homocysteine further augments impaired acetylcholine-stimulated relaxation and cyclic GMP formation in aortae from diabetic rabbits
- 9P **Pérez-Vizcaino F, Ibarra M, López-López G, Zaragoza-Arnáez F, Cogolludo AL, Duarte J & Tamargo J**
Vasodilator effects of quercetin and its metabolites, isorhamnetin and tamarixetin, in rat isolated vessels
- 10P **Busseuil DM, Middleton A, Middleton B & Wilson VG**
A study of the effect of methyl- β -cyclodextrin on cholesterol content and vascular responses of the porcine isolated coronary artery
- 11P **Roberts RE**
 α_2 -Adrenoceptor-mediated vasoconstriction: involvement of MAP kinase signal transduction cascade and calcium influx
- 12P **Evans KJ, Callaerts-Vegh Zs, Liu X & Bond RA**
Infusion of β -adrenoceptor antagonists and inverse agonists restores histamine responses in transgenic mice with cardiac overexpression of the β_2 -adrenoceptor
- 13P **Tatchum-Talon R, Khadour FH, Schulz R & McNeill JR**
Chronic swim training potentiates acetylcholine haemodynamic responses in normotensive rats
- 14P **Batey AJ & Coker SJ**
Lack of torsade de pointes with terfenadine compared to clofilium in an *in vivo* model
- 15P **Giuliano F & Warner TD**
No evidence that sodium salicylate inhibits LPS-induced expression of COX-2 in anaesthetised rats
- 16P **Hammerman R, Stichnote C, Fuhrmann M & Racké K**
Lipopolysaccharide (LPS)-stimulated L-arginine uptake in rat alveolar macrophages (AM Φ) is driven by iNOS-dependent L-arginine turnover
- 17P **Morgan ET, Peng N & Ferrari L**
Regulation of CYP2B1 expression by endogenous nitric oxide
- 18P **Fozard JR & Mazzoni L**
Lipopolysaccharide-induced airway hyperresponsiveness (AHR) to methacholine and substance P in guinea-pigs: effect of antagonists of NK₁ and NK₂ receptors
- 19P **Spruntulis L & Broadley KJ**
Involvement of A₃ receptors in allergic responses of the airways in conscious, sensitised guinea-pigs
- 20P **Danahay H, Thomas E, Bridges RJ & Poll CT**
PAR2-mediated inhibition of electrolyte transport in human bronchial epithelial cells
- 21P **Finn DP, Lallies MD, Harbuz MS, Hudson AL & Nutt DJ**
Effect of the imidazoline₂ (I₂) site-selective ligand BU224 on *in vivo* noradrenaline release and plasma corticosterone in control and chronically stressed rats
- 22P **McKirdy SW, Tzafetta K, Naylor IL, Sharpe DT**
The effect of lisinopril on the healing of excisional skin wounds of the rat
- 23P **Doods H & Wu D**
Evidence for heterogeneity of CGRP-like receptors in rat vas deferens
- 24P **Wu D & Doods H**
Effects of the CGRP antagonist BIBN4096BS on neurogenic vasodilation in anaesthetised rats
- 25P **Zacharowski K, Blackburn B & Thiemermann C**
Ranolazine reduces myocardial infarct size and cardiac troponin T release in the anaesthetised rat
- 26P **Zacharowski K & Thiemermann C**
Pharmacological preconditioning of the rat heart with lipoteichoic acid or endotoxin is not abolished by a K_{ATP} channel inhibitor

- 27P **Dora KA & Garland CJ**
A crucial influence of precontraction on potassium-induced relaxation in the rat isolated mesenteric artery
- 28P **Chaytor AT, Hutcheson IR, Marsh WL & Griffith TM**
Inhibition of EDHF-type relaxation by glycyrrhetic acid derivatives in rabbit superior mesenteric artery
- 29P **Martin PEM & Griffith TM**
The effects of ouabain and 18 α glycyrrhetic acid on gap junction intercellular communication and stability
- 30P **Maguire JJ & Davenport AP**
Constrictor responses of the novel peptide human urotensin II (U-II) and endothelin-1 (ET-1) compared in endothelium-denuded human arteries and veins *in vitro*
- 31P **Bulbulia RA, Wan S, Yim A, Johnson JL, Smith FCT, Angelini GD & Jeremy JY**
The endothelin_A receptor antagonist, BSF 302146, is a potent inhibitor of porcine vein graft thickening, *in vivo*
- 32P **Mang CF, Trümpler S & Kilbinger H**
Inhibition by endogenous nitric oxide of acetylcholine release in the mouse isolated ileum
- 33P **Sellers DJ, Yamanishi T, Chapple CR, Couldwell C, Yasuda K & Chess-Williams R**
M3-muscarinic receptor-mediated contractile responses in porcine detrusor muscle *in vitro*
- 34P **Sheehan MJ, Wilson DJ, Cousins R & Giles H**
Relative intrinsic efficacy of adenosine A₁ receptor agonists measured using functional and radioligand binding assays
- 35P **Browning C, Beresford IJM & Birdsall NJM**
Biphasic [³⁵S]GTP γ S functional responses of human adenosine A₁ receptors expressed in Chinese hamster ovary (CHO) cell membranes
- 36P **Browning C, Beresford IJM, Sheehan MJ & Birdsall NJM**
Characterisation of biphasic [³⁵S]GTP γ S responses of human adenosine A₁ receptors using partial agonists and the allosteric enhancer PD 81,723
- 37P **Jackson AM, Alexander SPH & Hill SJ**
Role of calcium in the M₃ muscarinic receptor-mediated potentiation of A_{2B} adenosine receptor-induced cyclic AMP accumulation in HEK 293 cells

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- 38P **Tyacke RJ, Robinson ESJ, Hudson AL & Nutt DJ**
In vivo inactivation of imidazoline₂ binding sites by a novel irreversible ligand
- 39P **Slattery DA, Hudson AL & Nutt DJ**
Inhibition of imidazoline I₂ site binding by potassium channel modulators
- 40P **Atkinson PJ, Price GW, Hagan JJ & Thomas DR**
[³H]-SB-269970 radiolabels 5-HT₇ receptors in human brain membrane homogenates
- 41P **Scott C, Watson, Middlemiss DN & Price GW**
Investigation of 5-HT_{1B} receptor function in rat striatal membranes using [³⁵S]GTP γ S binding
- 42P **Hopwood SE & Stamford JA**
Noradrenergic modulation of 5-HT release in the rat dorsal raphe nucleus via α_1 and α_2 adrenoceptors: *in vitro* voltammetric evidence
- 43P **Pollock EL, Cunningham JR & Neal MJ**
Dopamine acting at D₄ receptors modulates nitric oxide release in the rabbit retina
- 44P **Salt TE & Binns KE**
Antagonism of metabotropic glutamate receptor-mediated responses and nociceptive responses by the mGlu5 receptor-selective antagonist MPEP in the rat thalamus
- 45P **Hughes SW, Cope DW, Blethyn K & Crunelli V**
Facilitation of fast (5-50 Hz) and slow (0.1-1 Hz) oscillations in thalamocortical neurones by activation of Group 1 metabotropic glutamate receptors
- 46P **Meza-Toledo S & Bowery NG**
Baclofen inhibits electrically evoked GABA release from rat substantia nigra slices without evidence for autoreceptors
- 47P **Kelly S & Chapman V**
Spinal capsazepine reduces Ad- and C-fibre-evoked responses of dorsal horn neurones in non-inflamed and carrageenan-inflamed anaesthetised rats
- 48P **Dwivedi C, Aker LA & Guan X**
Effects of hydrocortisone treatment in dopaminergic receptor binding in rat brain striatum
- 49P **Parada A & Soares-da-Silva P**
BIA 3-202 does not potentiate locomotor hyperactivity during increased dopaminergic stimulation
- 50P **Parada A & Soares-da-Silva P**
BIA 3-202 does not potentiate amphetamine-induced dopaminergic hyperactivity
- 51P **MacInnes N & Handley SL**
Agmatine, harmaline, ibogaine and the monoamine oxidase inhibitor RO41-1049 substitute for the imidazoline I₂ site ligand 2-BFI in the rat drug discrimination paradigm
- 52P **Fernandez-Perez S, Pache DM, Spencer PSJ & Sewell RDE**
Differential effects of 5-HT_{1A} receptor activation in a combined delayed-matching/non-matching-to-position task
- 53P **Deslandes PN, Pache DM & Sewell RDE**
Does naloxone have differing actions on reward?
- 54P **Morton MF, Harper EA, Tavares IA, Shankley NP & Black JW**
Characterisation of CCK₁ receptors in human gallbladder using [³H]-L-364,718 as radiolabel
- 55P **Rosignoli F & Pérez Leirós C**
Activation of nitric oxide synthase through muscarinic acetylcholine receptors in rat parotid

- 56P **Welsh NJ, Eglen RM & Shankley NP**
Agonist potency provides evidence for functionally coupled muscarinic M_2 receptors on mouse urinary bladder
- 57P **Welsh NJ, Eglen RM & Shankley NP**
Pharmacological comparison of the muscarinic receptors mediating contraction of the guinea-pig left atrium, gastric smooth muscle and mouse urinary bladder
- 58P **Jackson VM, Trout SJ, Brain KL & Cunnane TC**
Nerve-evoked calcium transients in sympathetic axons of mouse vas deferens are modulated by K_A and K_V but not by K_{Ca}
- 59P **Roberts C & Price GW**
Interaction of serotonin autoreceptor antagonists in the rat dorsal raphe nucleus: an *in vitro* fast cyclic voltammetry study
- 60P **Slough S, Watkins J & Taberner PV**
Evidence for a functional pre-synaptic imidazoline receptor in the mouse isolated vas deferens
- 61P **Templeman L, Chapple CR & Chess-Williams R**
The role of urothelium-derived inhibitory factor in the pig bladder neck
- 62P **Sellers DJ, Yamanishi T, Chapple CR, Yasuda K & Chess-Williams R**
Muscarinic receptor subtype mediating contractile responses of human detrusor muscle *in vitro*
- 63P **Jones RL, Chan KM & Rudd JA**
Investigation of prostanoid EP_4 and IP_1 systems in isolated blood vessels of piglets
- 64P **Jones LA & Wann KT**
Activation of a hyperpolarization-dependent channel by 8-bromo-cAMP in Alzheimer model fibroblasts
- 65P **Deuchar GA, Hicks MN & MacLean MR**
Blockade of NOS uncovers a more potent vasoconstrictor response to big-endothelin in the pulmonary circulation of rabbits with pulmonary hypertension
- 66P **Deuchar GA, Hicks MN & MacLean MR**
SB209670, a mixed endothelin receptor antagonist, blocks the greater pulmonary pressor response to ET-1 following L-NAME in rabbits with pulmonary hypertension
- 67P **Gustafsson AB, Villegas S & Brunton LL**
Regulation of NO synthase by phosphorylation and Ca^{2+} /CaM in cardiac fibroblasts
- 68P **Jin L, Abou-Mohamed G, Caldwell RB & Caldwell RW**
Homocysteine inhibits NO formation by reducing L-arginine transport
- 69P **Abou-Mohamed G, Kaesemeyer WH, Caldwell RB & Caldwell RW**
Role of L-arginine in the vascular actions and development of tolerance to nitroglycerin
- 70P **Kaesemeyer WH, Ogonowski AA, Jin L, Caldwell RB & Caldwell RW**
Endothelial nitric oxide synthase is a site of superoxide synthesis in endothelial cells treated with nitroglycerin
- 71P **Cogolludo A, Pérez-Vizcaino F, Zaragoza-Arnáez F, Ibarra M, López-López G & Tamargo J**
Mechanisms of sodium nitroprusside-induced vasodilation in pulmonary and mesenteric arteries from neonatal piglets
- 72P **Bell JP, Donaldson F, Wilson JF, Williams PE, Lewis MJ & Fisher M**
Decreased endothelial nitric oxide synthase expression at low shear stress regions of the arterial vasculature
- 73P **Hopkins LF, Johal M & Wilson JF**
Chronic treatment with simvastatin increases contractility of rabbit isolated aortic rings to phenylephrine by a mechanism not involving nitric oxide
- 74P **Harris D, Kendall DA & Randall MD**
Anandamide-induced vasorelaxation is partially sensitive to inhibition of Na^+/K^+ -ATPases in the rat isolated mesenteric bed
- 75P **Grainger J, Senaratna RN & Boachie-Ansah G**
The role of the endothelium and arachidonic acid metabolites in the vasorelaxant actions of anandamide in sheep coronary arteries
- 76P **Roldán E, Avellanal M, España G, Flores A, Ortega A & Aleixandre MA**
Potassium and noradrenaline responses in isolated poplitea preparations from patients with serious peripheral occlusive arteriopathy
- 77P **Oh WC, Harris D & Randall MD**
Mechanisms of potassium-induced vasorelaxation in the rat aorta
- 78P **Carle C, Blaylock NA & Wilson VG**
Pharmacological examination of vasoconstrictor α_2 adrenoceptors of the porcine isolated splenic artery
- 79P **Aryisena J, Kigozi M, Packainathan A, Blaylock NA & Wilson VG**
A study of the effect of co-activation of adenylyl cyclase on α_2 adrenoceptor-mediated responses of the porcine isolated tail and coronary arteries
- 80P **Blaylock NA, Shah A & Wilson VG**
Pharmacological evidence for pre- and post-junctional α_2 -adrenoceptors in the porcine isolated rectal artery
- 81P **Dunn WR, Aspley S & Billington S**
Responses to 5-HT in rat isolated cerebral resistance arteries
- 82P **Kelly M, Maubach K, Wingrove P, Whiting P & Seabrook G**
Pharmacology of the human $\alpha 5H105R\beta 3\gamma 2s$ GABA $_A$ receptor expressed in *Xenopus* oocytes
- 83P **Burnham MP, Richards GR, Edwards G & Weston AH**
Identification and localization of Na^+K^+ ATPase α -subunits in rat arteries
- 84P **Katugampola SD & Davenport AD**
Human internal mammary artery possesses a greater density of thromboxane A_2 receptors than the coronary artery: differential distribution in human vasculature

- 85P **Katugampola SD, Matthewson SR & Davenport AP**
Characterization of [¹²⁵I]-(P^{YR}¹) apelin-13, the putative ligand for the APJ orphan receptor in human tissue
- 86P **Ortega A, Fernández M & Aleixandre MA**
Endothelial vasoconstrictor factors counteract the effect of high extracellular calcium in spontaneously hypertensive rat aorta
- 87P **Johnström P, Aigbirhio FI, Clark JC, Pickard JD & Davenport AP**
Synthesis and preliminary *in vivo* characterisation of [¹⁸F]-ET-1, a PET radioligand for the endothelin receptor
- 88P **Stirrat A, Douglas SAD, Kirk A, Berry C, Richardson M & MacLean MR**
Vasodilator effect of hU-11 on human pulmonary and resistance arteries
- 89P **Kuc RE, Maguire JJ & Davenport AP**
Localisation of binding sites for human [¹²⁵I]-urotensin II (U-II), the novel orphan receptor ligand, in human and rat CNS and peripheral tissues
- 90P **Wright RC & Ingenito AJ**
Prevention of isolation-induced hypertension with a non-peptide kappa-opioid receptor agonist
- 91P **Fryer RM, Wang Y, Hsu AK & Gross GJ**
Regulation of opioid receptor-induced cardioprotection by protein kinase C: isoform-specific PKC translocation
- 92P **Fraser JL & Coker SJ**
Effects of acute and chronic administration of norethisterone on ischaemia-induced arrhythmias
- 93P **Farkas A & Coker SJ**
Comparison of erythromycin, terikalant and clofilium in an *in vivo* model of torsade de pointes
- 94P **Mohuczy D, Chen H, Mehta JL & Phillips MI**
A new approach to the heart protection antisense to angiotensin converting enzyme
- 95P **Rodríguez-Pérez P & Barrigón S**
Inhibition of creatine kinase activity decreases the functional recovery of rabbit myocardium after an ischaemia-reperfusion challenge
- 96P **Aleixandre MA, Fernández M, López-Miranda V & Ortega A**
Hypoxia-reoxygenation in cold-stored rabbit aorta scavenges nitric oxide by releasing superoxide anions
- 97P **El-Remessey AB, Bartoli M, Abou-Mohamed G, Caldwell RW & Caldwell RB**
Mechanism of vascular injury in experimental diabetic retinopathy
- 98P **Duarte J, Pérez-Palencia R, Vargas F, Jiménez R, Pérez-Vizcaino F, Zarzuelo A & Tamargo J**
Chronic antihypertensive effects of the bioflavonoid quercetin in spontaneously hypertensive rats
- 99P **Civantos B & Aleixandre MA**
Effect of dietary calcium and amlodipine on the arterial blood pressure of spontaneously hypertensive rats
- 100P **Erhorn S, Choukairi F, Lang D, Doshi S & Lewis MJ**
Folic acid reverses methionine-induced endothelial dysfunction in rabbit isolated aortic ring preparations
- 101P **Laight DW, Desai KM, Änggård EE & Carrier MJ**
Endothelial dysfunction generated by a pro-oxidant, pro-diabetic challenge in the insulin-resistant, obese Zucker rat *in vivo*
- 102P **McGinn JS, Crozier A & MacLean MR**
Comparison of the vasodilator activities of various grape and tea extracts
- 103P **Neff JA, Huang W & Moody DE**
Identification of cytochrome P450s capable of 1- α -acetyl-methadol (LAAM) and norLAAM N-demethylation
- 104P **James MO, Cornett R, Henderson GN, Shroads AL & Stacpoole PW**
Destruction of glutathione S-transferase zeta protein by dichloroacetic acid treatment
- 105P **Robertson DA, Hughes GA & Lyles GA**
Inducible nitric oxide synthase expression in lipopolysaccharide-treated cultured smooth muscle cells from rat mesenteric lymphatic vessels
- 106P **Dolan S, Huan M, Kelly JG & Nolan AM**
Differential regulation of inducible transcription factors c-fos and c-jun mRNA in spinal cord following surgical inflammation
- 107P **Kidd EJ, Michel AD, Grahames CM, Dawe H & Humphrey PPA**
P2X₇ receptor expression and function in human THP-1 cells
- 108P **Fletcher S, Franklin FCH, Hope AG & Barnes NM**
Identification of a putative novel splice variant of the porcine 5-HT_{3A} receptor subunit
- 109P **Hornuß C, Juergens UR, Hammerman R & Racké K**
Extracellular lysophospholipids stimulate superoxide production in rat alveolar macrophages, possibly via EDG receptors
- 110P **Tzafetta K, McKirdy SW, Naylor IL & Sharpe DT**
A role for H1 antagonists to facilitate wound healing?
- 111P **Tzafetta K, McKirdy SW, Naylor IL & Sharpe DT**
Is there a role for promethazine in wound healing?
- 112P **Lewis-Lakelin M & Broadley KJ**
Adenosine releases histamine from sensitized but not unsensitized guinea-pig lung mast cells in the presence of zileuton and indomethacin
- 113P **Toward T & Broadley KJ**
Early and late phase bronchoconstrictions, airway hyperreactivity, cell influx and steroid or rolapram sensitivity after inhaled ozone in conscious guinea-pigs
- 114P **Martin TJ & Broadley KJ**
Histological identification of the effects of adenosine and antigen on degranulation of mast cell subtypes in sensitized guinea-pig airways

- 115P **El-Hashim AZ, Wyss D & Lewis CA**
Simultaneous measurement of anti-tussive and anti-bronchoconstrictor effects of neurokinin receptor antagonists against citric acid-induced cough in guinea-pigs
- 116P **Trifilieff A, Corteling R, Wyss D, Fuentes M & Bertrand C**
Anti-inflammatory effect of an inducible nitric oxide inhibitor in murine allergen-induced airway inflammation: mechanism of action
- 117P **Palser A, Hannon JP, Tigani B, Mazzoni L & Fozard JR**
Time-dependent changes in bronchial responsiveness to direct and indirect bronchospasmogens following allergen challenge in actively sensitised Brown Norway rats
- 118P **Lewis CA, Steward A, Subramanian N & Fozard JR**
Pharmacology of NK608, a novel selective neurokinin-1 receptor antagonist with oral activity
- 119P **Flavin F, Presland JP, Vincent MJ, Mokhtar N, Briddon SJ & Hill SJ**
Differential effect of the protein kinase C inhibitors Go-6976 and Go-6983 on signalling to the nucleus from the human insulin receptor
- 120P **Richards JK, Hill SJ & Kendall DA**
Inhibition of CREB/CRE-directed gene transcription by desmethylimipramine (DMI) in a CHO-K1 cell line
- 121P **Campbell L & Gumbleton M**
Aberrant caveolin-1 expression in psoriasis: a signalling hypothesis
- 122P **Witt KA, Egelton RD, Huber JD, Hruby VJ & Davis TP**
Blood-brain barrier permeability assessment of stereoselective opioid analogues
- 123P **Beresford IJM, Sheehan MJ, Brown AJ & Dowell SJ**
Characterisation of a yeast reporter assay for the human adenosine A₁ receptor
- 124P **Kidd EJ, Thompson KT, Michel AD & Humphrey PPA**
The effect of receptor expression and temperature on agonist potency at the P2X₇ receptor assessed using an inducible expression system
- 125P **Vieira-Coelho MA, Costa JL & Soares-da-Silva P**
Inhibition of rat soluble catechol-O-methyltransferase by BIA 3-202, a reversible tight-binding inhibitor
- 126P **Abulrob AG, Simons C & Gumbleton M**
Increased intracellular concentration of P-glycoprotein substrates in multidrug resistant cells by molecules isolated from grapefruit oil
- 127P **Bertelsen M, Änggård EE & Carrier MJ**
Oxidative stress impairs insulin uptake in bovine aortic endothelial cells
- 128P **Kim YS, Isaiah L & Hruska KA**
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- 129P **Daniels S & Wittmann S**
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DEMONSTRATIONS

- 130P **Findlater G, Shaw J, Ellaway R & Dewhurst DG**
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The open campus: a distributed learning general pharmacology course

ABSTRACTS FROM A SYMPOSIUM ON 'EPILEPSY 2000: SCIENCE TO PRACTICE'

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Molecular insights into GABA_B receptor physiology</p> | <p>150P Devi L, Jordan BA, Gupta A, Trapraizze N, Nagy V & Gomes I
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RAMPs (Receptor Activity Modifying Proteins) as determinants of GPCR ligand selectivity</p> <p>152P Birdsall NJM, Browning C & Leppik RA
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