ORAL COMMUNICATIONS

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

1P Konstantinidis M, Hart S, Han J, Marber M, Pearson J & Baydoun AR

Regulation of inducible nitric oxide synthase and cationic amino acid transport by $p38\alpha\,$ and $p38\beta\,$ MAP kinases in rat cultured aortic smooth muscle cells

2P Cui Z, Tuladhar R, Hart S, Marber M, Pearson J & Baydoun AR

Inducible nitric oxide synthase alone does not enhance transport of L-arginine in HEK293 cells

3P Thakur S, Cui Z, Brzeski H & Baydoun A Requirement of NFkB for the induction of Larginine transport in rat cultured aortic smooth muscle cells

4P Seatter MJ, Drummond RM, Macfarlane SR, Kanke T & Plevin R

The role of the C-terminus in protease-activated receptor-2-mediated intracellular Ca²⁺ signalling, PYK-2 activation and mitogen-activated protein kinase activity

5P Baker JG, Hall IP & Hill SJ

Response-dependent agonist and inverse agonist properties of propranolol at the human β_2 -adrenoceptor expressed in CHO-K1 cells

6P Briddon SJ, Cordeaux Y, Middleton RJ, Kellam B & Hill SJ

Visualisation of adenosine-A₁ receptors using the novel fluorescent ligand, xanthine amine cogener-bodipy630/650

7P Yang D, Félétou M, Levens N, Zhang JN & Vanhoutte PM

A diffusible substance mediates endotheliumdependent contractions in the aorta of spontaneously hypertensive rats

8P Katz LM, Marr CM & Elliott J

Characterisation of the relaxant responses of equine digital blood vessels to substance P

9P Summers A, Parsons ME & Whelan CJ Characterisation of nicotine receptors in the human lymphocytic cell line Jurkat

10P Klee S, Bramhall J, Vecchione A, Sykes A, Parsons ME & Whelan CJ

Characterisation of the nicotine receptor mediating inhibition of TNF α release from THP-1 cells *in vitro*

11P Coutts A & Anavi-Goffer S

Vanilloid receptor type 1-immunoreactivity and calcium binding proteins in the guinea-pig myenteric plexus

12P Ross RA, Ellington HC, Cotter MA & Cameron NE The effect of cannabinoids on capsaicin-evoked

The effect of cannabinoids on capsaicin-evoked calcitonin gene-related peptide (CGRP) release from the isolated hindpaw skin of diabetic and non-diabetic rats

13P Duncan M, Kendall DA & Ralevic V

The endocannabinoid noladin ether attenuates sensory neurotransmission in the rat isolated mesenteric arterial bed

14P Ihenetu K, Salmon DM, Molleman A, Parsons M & Whelan CJ

Cannabinoids decrease intracellular Ca⁺⁺ and inhibit ligand-induced rises in [Ca²⁺]_i in an epithelial cell line (HT29)

15P Kelly S & Chapman V

The effect of a selective cannabinoid CB₁ receptor agonist on mechanical punctate evoked responses of spinal neurons in anaesthetised rats

16P Brooks JW, Rice ASC, Thompson SWN & Malcangio M

(S)-AMPA inhibits electrically evoked calcitonin gene-related peptide (CGRP) release from the rat dorsal horn: reversal by cannabinoid antagonist SR141716A

17P Nicholson JR, Akil H & Watson SJ

The involvement of Nociceptin/Orphanin FQ in the physiological mediation of feeding behaviour in rats.

18P Murray C, Dass N, Emmanuel A & Sanger G.J

Facilitation by ghrelin and metoclopramide of nerve-mediated excitatory responses in mouse gastric fundus circular muscle

19P Beveridge TJR & Elliott JM

Down-regulation of the 5-HT_{2A} receptor by mianserin in rat brain is associated with a change in expression of the immediate early gene Arc

20P Al-Damluji S & Ganellin CR

Structural properties of Group B ligands for transport-P

21P Dayan L & Finberg JPM

L-DOPA increases intraneuronal release of noradrenaline in rat frontal cortex

22P de Ceballos ML, Brera B & Fernández-Tomé MP

β-Amyloid₂₅₋₃₅ inhibits glutamate uptake in cultured neurons and astrocytes: modulation of uptake as a survival mechanism

23P Johnston T & Duty S

Baclofen alleviates akinesia following intranigral and intraventricular injection in the reserpinetreated rat but fails to inhibit glutamate release from rat nigral slices

24P Lees P, Arifah A K & Landoni M F

Pharmacodynamics, chiral pharmacokinetics and PK-PD modelling of ketoprofen in the goat

25P Lees P & Shojaee AliAbadi F

Pharmacokinetics, pharmacodynamics and PK-PD integration of danofloxacin in sheep biological fluids

POSTER COMMUNICATIONS

26P Greenwood IA, Ohya S & Horowitz B Characterization of murine ERG1a channels expressed in HEK cells

27P Bailey SR, Berhane Y & Elliott J Effects of tryptamine on the equine isolated perfused digit preparation

28P Wiley KE, Stoneman VEA, Bennett MR & Davenport AP

Increased vasoconstriction to endothelin-1 in aorta from apolipoprotein E knockout mice devoid of atherosclerotic lesions

29P Turner RR & Brown MJ

Identification of a novel variant in exon 19 of the endothelial nitric oxide synthase gene

30P Brahmadevara N, Shaw AM & MacDonald A Effects of endothelium and pre-constriction on βadrenoceptor-mediated relaxation in rat isolated aorta

31P Kang KB, van der Zypp A, Rajanayagam MAS & Majewski H

Effects of aging on cyclooxygenase expression and the α_1 -adrenoceptor signalling pathway in rat aortae

32P Gassem F, Brzeski H, Foxwell N & Baydoun AR Characteristics of L-arginine transport and nitric oxide synthesis in the p53 mutated CAPAN-1 human pancreatic tumour cell line

- 33P Baydoun AR, Dawson J, Thakur S & Knowles RG
 Transport mechanisms for GW274150, a potent
 and selective inhibitor of inducible nitric oxide
 synthase
- 34P Greenaway EC, Goode NT & Cunningham FM
 Role of protein kinase C in equine eosinophil
 superoxide production and adherence

35P Andrews M, Waterworth T, Rickards K & Cunningham F

Effect of phosphodiesterase inhibitors on equine platelet aggregation

36P Young JJ, Smith E & Hoffman R

Detection of multiple forms of vascular endothelial growth factor (VEGF) and endostatin in leg ulcer fluid.

37P Nevin BJ & Broadley KJ

Effects of selective inducible nitric oxide synthase (iNOS) inhibition on allergen-induced airway responses in conscious guinea-pigs

38P Clark JH, Martin TJ, Yates L, Kidd EJ, Nicholson RI & Broadley KJ

Characterisation of transfected human adenosine A₃ receptors

39P Andersson H, Summers A, Ihenetu K & Whelan CJ Induction of apoptosis in the epithelial cell line HT29 by nicotine and tobacco smoke condensate

40P Pantasri P, Rapley R, Hoffman R, Walker JM, Lord PG, Skehel MJ, Kramer K & Doyle KM

Protein expression in rat liver: response to short term treatment with phenobarbital using twodimensional gel electrophoresis

41P Patel JD & Ebenezer IS

Previous exposure to cholecystokinin sensitises the guinea pig isolated ileum to the contractile effects of acetylcholine

42P Talubmook C, Forrest AS & Parsons ME Alterations in basal and evoked contractile responses of intestinal tissue from streptozotocininduced diabetic rats

43P Borman RA, Coleman RA & Clark KL Investigation of the excitatory effects of 5-HT on contractile responses of human colon smooth muscle

44P Cochrane S, Quinn T, O'Donoghue DP, Baird AW & Brayden DJ

The effect of myosin light chain kinase inhibition on pharmacologically induced changes in paracellular intestinal epithelial permeability

45P Forrest AS, Quinn T, Keenan AK, Usher C, Parsons ME, Baird AW & Brayden DJ Megacolon in the streptozotocin-treated diabetic rat

46P Quinn T, Molloy M, Smith A & Baird AW Capacitative calcium entry in guinea-pig gallbladder smooth muscle

47P Valentine SM & Lummis SCR

The role of non-conserved proline residues in the extracellular domain of the mouse 5-HT_{3A} receptor

48P Cumberbatch N, Calvert G, Thompson KSJ, Cheetham SC, Watts JP & Cockcroft V Identification of the critical residues in melanin concentrating hormone (MCH) involved in human MCH₁ (SLC-1) receptor activation

49P Liddle R, Aitken J, Oldfield K, Watts JP, Cockcroft V & Cheetham SC

Residues in melanin concentrating hormone (MCH) involved in high affinity binding to MCH₁ (SLC-1) receptors

50P Liddle R, Aitken J, Oldfield K, Brownhill V & Cheetham S

Characterisation of [3H]Phe¹³,Tyr¹⁹-MCH binding to human MCH₁ (SLC-1)receptors

51P Baker JG, Hall IP & Hill SJ

Antagonism of isoprenaline- and salbutamolstimulated cyclic AMP accumulation by $\beta 2$ - antagonists in CHO-K1 cells expressing the human β_2 -adrenoceptor

52P Overbury AL, Kendall DA & Marsden CA The effect of 5-HT depletion on central cannabinoid receptor function

53P Craib SJ, Thomas A, Ross RA & Pertwee RG
Cannabidiol attenuates responses of the mouse isolated vas deferens to WIN55212-2 and noradrenaline

54P Chari R, Iannazzo L & Majewski H

The conventional isoforms of protein kinase C are targetted in the endogenous facilitation of noradrenaline release in the rat brain cortex

55P Rousseau S, Wonnacott S & Pullar I

Activation of presynaptic nicotinic acetylcholine receptors modulates the depoarisation dependant release of [3H]D-aspartate from rat frontal cortex synaptosomes

56P Lever IJ, Cunningham JR, Pezet S & Malcangio M BDNF facilitates potassium stimulated GABA release from the isolated rat dorsal horn

57P Khundakar AA, Mazumdar A & Zetterstrom TSC
Gene expression for brain derived neurotrophic
factor in rat hippocampus is reduced by baclofen,
tranylcypromine and paroxetine but not
flunitrazepam

58P Lee JJ & Croucher MJ

Differential roles of Group I and Group II mGlu receptors in the regulation of 5-HT release in the rat frontal cortex *in vivo*

59P Messenger MJ, Dawson L & Duty S

Changes in Group I, II and III metabotropic glutamate (mGlu) receptor gene expression in the basal ganglia and thalamus of rats with a nigrostriatal tract lesion

60P De Sarro G, Ferreri G, Russo E, Gitto R, Barreca ML & Chimirri A

Anticonvulsant activity of tetrahydroisoquinoline derivatives as potential new AMPA receptor antagonists

61P Lightbown ID, Miner WD & Gale JD

The anti-emetic activity of S(-)-eticlopride against morphine- and ipecacuanha-induced emesis in the conscious ferret

62P MacDonald E, Lähdesmäki J, Sallinen J & Scheinin M

The α_{2A} -adrenoceptor is activated after amphetamine administration and protects hippocampal noradrenergic nerves in mice from transmitter depletion

63P Quate L, McBean DE, Ritchie IM, Olverman HJ & Kelly PAT

Acute methylenedioxymethamphetamine administration: effects on local cerebral blood flow and glucose utilisation in the rat

64P Murphy JEJ, McBean GJ, Guiry PJ, McCormack P, Baird AW & Keenan AK

In vitro effects of (±)-4-methylthioamphetamine, (±)-4-methylthiomethamphetamine and (±)-MDMA on vascular responses to noradrenaline and phenylephrine

65P Aston JC & Elliott JM

Paroxetine modulates the expression of the immediate early gene arc induced by MDMA in rat brain

66P Gartlon J, Ashmeade T, Duxon M, Hagan JJ & Jones DNC

C-fos induction following central administration of urotensin-II

67P More JCA, Troop HM & Jane DE

 N^3 -tetrazolylalkylwillardiine analogues are AMPA and kainate receptor antagonists

68P Tel BC, Rose S & Jenner P

Ropinirole, bromocriptine and L-DOPA have a differential effect on striatal dopamine D2 and D3 but not D1 receptor mRNA expression in MPTP-treated marmosets

69P Jenkins S, Tucker L & Clarke RW

Evidence that excitatory spinal actions of a triptan are mediated through 5-HT, receptors

70P Arkle MJM, Arkle S & Ebenezer IS

Investigation of the mechanism of tolerance to the anorexigenic effects of 8-hydroxy-2-(di-N-propylamino)-tetralin (8-OH-DPAT) in food-deprived rats

71P Ebenezer IS

Pretreatment with the CCK₁ receptor antagonist attenuates the suppressant effect of the 5-HT_{1A} receptor agonist gepirone on food intake in hungry rats

72P Patel SM & Ebenezer IS

Effects of chronic administration of the GABA_B agonist baclofen on food intake in rats

DEMONSTRATION

73P Dewhurst DG, Collins GGS & Cromar S

A computer simulation of the sciatic nerve-tibialis anterior muscle preparation of the cat *in vivo* to teach neuromuscular pharmacology to undergraduate students

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

PATHOLOGIES OF THE NERVOUS SYSTEM: UNDERLYING MECHANISMS AND NEW TREATMENTS

Thursday 11th April 2002

74P Tomlinson DR, Purves T & Fernyhough P

Diabetic neuropathies

75P Hill RG

Pain and its treatment

76P Milla P

The enteric nervous system and its contribution

to gastrointestinal disorders

77P Jenner P

Mechanisms of neurodegeneration in CNS disorders such as Parkinson's disease

PRESYNAPTIC RECEPTORS IN THE BRAIN AND PERIPHERY

Thursday 11th April 2002

78P Langer SZ

An overview of presynaptic receptors

79P Bowery NG

Mammalian presynaptic GABA_B receptors

80P McKnightAT

Presynaptic opioid receptors

81P Pertwee R

Presynaptic cannabinoid receptors

TOPICS AND ISSUES IN VETERINARY AND BASIC PHARMACOLOGY

Friday 12th April 2002

82P Lees P

Large animal models in studies of the pharmacology of anti-inflammatory drugs

83P McKellar Q

Antimicrobial resistance: designing dosage schedules on basic pharmacological principles.

84P Dickenson A

Recent advances in mechanisms of pain

85p Nolan A

Use of large animal models in pain research