ORAL COMMUNICATIONS

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

1P **Gardner BR & Strange PG** On the quantification of receptor function and the molecular mechanisms of agonist action at G-protein linked receptors

2P **Murphy CT & Westwick J** Modulation of Ins(1,4,5)P_3-induced Ca^{2+} release from permeabilised platelets by cGMP-dependent kinase activity

3P **Patel S, Harris A & Taylor CW** Ca^{2+}-regulated calmodulin binding to purified inositol 1,4,5-trisphosphate (InsP_3) receptors

4P **Connors SC, Mamas MA & Terrar DA** Actions of phorbol dibutyrate on spontaneous electrical activity in guinea-pig isolated ventricular myocytes

5P **Turner SJ, Ward SG, Smith G, Raport CJ, Schweickart V & Westwick J** Disparate signalling pathways utilised by HEK 293 cells transfected with MCP-1 type A or type B receptors

6P **Lambert DG, Hirst RA, Smart D & Grandy DK** Characterisation of CHO cells expressing the cloned rat μ opioid receptor

7P **Sanderson EM, Iredale PA & Hill SJ** Role of Ca^{2+} ions in the stimulation of cAMP accumulation by histamine in CHO-K1 cells transfected with the bovine H_1 receptor

8P **Schindler M, Humphrey PPA & Emson PC** Immunohistochemical localisation of the somatostatin sst_2 receptor in the rat brain and spinal cord

9P **Thurlow RJ, Sellers L, Coote JE, Feniuk W & Humphrey PPA** Human recombinant sst_5 receptors expressed in CHO-K1 cells mediate increases in extracellular acidification by pertussis toxin-sensitive and -insensitive pathways

10P **Williams AJ, Michel AD, Coote JE, Sellers L, Feniuk W & HumphreyPPA** Characterisation of the human recombinant sst_5 receptor in CHO-K1 cells by quantification of guanosine-5'-O-(3-[^{35}S]thio)triphosphate binding

11P **Connor MA, Jones A & Henderson G** Somatostatin and neuropeptide Y elevate intracellular calcium in SH-SY5Y cells when applied in the presence of carbachol

12P **D'Amico M, Dashwood MR & Warner TD** Endothelin-1 and rat periaqueductal gray area: an autoradiographic and functional pharmacological study

13P **Caulfield MP, Haley JE, Abogadie FC, Vallis Y & Buckley NJ** Antisense constructs directed agains $G_{\alpha q/11}$ attenuate G protein and reduce muscarinic M-current inhibition following intranuclear injection in rat sympathetic neurones

14P **Abogadie FC, Haley JE, Vallis Y, Caulfield MP & Buckley NJ** Use of antisense constructs directed against G_α subunits to attenuate G-protein expression

15P **Tanay VAM-I, Baker GB, Greenshaw AJ & Bateson AN** Differential effects of chronic treatment with phenelzine, imipramine or buspirone on $GABA_A$ receptor subunit gene expression in rat brain

16P **Kennett GA, Bright F, D'Arcy S & Blackburn TP** The 5-$HT_{2C/2B}$ receptor antagonist, SB 206553, has anxiolytic-like properties in two rat models

17P **Beckett SRG, Aspley S & Marsden CA** The effect of mCPP and yohimbine on 20 kHz ultrasound-induced defence behaviour

18P **Fone KCF, Austin RH & Punhani T** Changes in behaviour, corticosterone release and 5-HT_{2C} receptor levels following chronic m-CPP infusion in the rat

19P **Andrews JS, de Boer Th & Nicholson CD** Antidepressant drug effects on differential reinforcement of low rate responding 72 secs (DRL) and learning assessed by autoshaping (AUTO) using Long Evans rats

20P **Murray TK & Cross AJ** The effect of dizocilpine and selective hippocampal lesions in the elevated plus-maze

21P **Silva MT, Rose S, Hindmarsh JG, Jenner P & Marsden CD** Altered striatal dopamine efflux produced by high concentrations of L-arginine is not dependent on nitric oxide formation

22P **MacKenzie GM, Jackson MJ, Jenner P & Marsden CD** L-Name does not protect against MPTP toxicity in the common marmoset

23P **Kunikowska GM, Toffa S, Zeng B-Y, Jenner P & Marsden CD** The effect of chronic GSH depletion induced by L-buthionine-(S,R)-sulphoximine (BSO) on the nigrostriatal pathway in rats

24P **Banerji T, Pearce RKB, Jackson MJ, Jenner P & Marsden CD** Cholinergic manipulation of L-DOPA-induced dyskinesias in the MPTP-treated common marmoset (*Callithrix jacchus*)

25P **Shaw PJ & Salt TE** The effects of the nitric oxide-donors sodium nitroprusside (SNP) and S-nitrosoglutathione (GSNO) on rat ventrobasal thalamus neurones *in vivo*

26P **Obrenovitch TP, Hardy AM & Zilkha E** Effects of L-701,324, a novel antagonist at the glycine site of the *N*-methyl-D-aspartate (NMDA) receptor, on the electroencephalogram and NMDA-evoked responses in the rat striatum

27P **Moss SH, Bennett GW & Marsden CA** Characterisation of the developmental changes in neurotensin metabolism in the rat telencephalon

28P **Wilson J, Watson WP & Little HJ** A CCK_B antagonist reduces signs of anxiety-related behaviour in the elevated plus-maze during withdrawal from chronic ethanol treatment

29P **Bailey CP, Molleman A & Little HJ** The antiepileptic, gabapentin, and the CCK_B antagonist, C1988, decrease hyperexcitability in hippocampal slices during ethanol withdrawal

30P **Manley SJ & Little HJ** Prolonged changes in effects of cocaine after chronic ethanol treatment

31P **Ruetten H, Thiemermann C & Vane JR** Endothelin-1 enhances the synthesis of tumour-necrosis factor-α in cultured macrophages and in the anaesthetised rat

32P **Plumpton C, Ferro CJ, Haynes WG, Webb DJ & Davenport AP** The endothelin antagonist TAK-044 increases human plasma immunoreactive endothelin but not big endothelin-1 or C-terminal fragment of big endothelin-1

33P **Pierre LN & Davenport AP** Investigation of endothelin receptor subtypes in human isolated middle meningeal artery

34P **Lauder H, Fan T-PD & Hiley CR** Action of endothelin ET_B receptor antagonists on endothelin-3-induced proliferation of wounded endothelial cells

35P **Maguire JJ, Kuc RE, Doherty AM & Davenport AP** Affinity of the ET_A selective non-peptide antagonist PD156707 for endothelin receptors in human renal and cardiovascular tissues

36P **Russell FD & Davenport AP** Binding characteristics of ET_B selective compounds in human and rat heart

37P **Sargent CA, Birrell M, McCormick J, Brown TJ & Roach AG** Characterisation of endothelin receptors in porcine pulmonary tissue

38P **Mistry SK, Chatterjee PK, Weerackody RP, McKay NG, Knott RM, Hawksworth GM & McLay JS** Growth-induced natriuretic peptide receptor subtype switching and natriuretic peptide expression in primary cultures of rat proximal tubular cells

39P **Weerackody RP, Chatterjee PK, Mistry SK, Hawksworth GM & McLay JS** Aldosterone stimulates DNA, RNA and protein synthesis in primary cultures of rat proximal tubular cells

40P **Chatterjee PK, Weerackody RP, Mistry SK, Hawksworth GM & McLay JS** Angiotensin II-stimulated DNA, RNA and protein synthesis in human proximal tubular cells is inhibited by the AT_1 receptor antagonist DuP753

41P **Wilkie N, Ng LL & Boarder MR** Angiotensin II stimulation of MAP kinases in cultured vascular smooth muscle cells from hypertensive rats: protein kinase C-dependent and -independent mechanisms

42P **Weerackody RP, Chatterjee PK, Mistry SK, Hawksworth GM & McLay JS** Angiotensin IV stimulates protein synthesis in primary cultures of rat proximal tubular cells

43P **Forster C & Le Tran Y** Angiotensin-(1-7): Vasodilator or antagonist?

44P **Poyner DR, Howitt S & Harkin S** Calcitonin gene-related peptide increases glucose uptake in L6 skeletal myocytes by cyclic AMP

45P **Villalón CM, Sánchez-López A & Centurión D** 5-HT receptors mediating the increases in external carotid blood flow in vago-sympathectomized dogs pretreated with GR127935

46P **Wang Y, Ramage AG & Jordan D** $5\text{-}HT_3$ receptors mediate an excitatory action of 5-HT on dorsal vagal preganglionic neurones in anaesthetized rats: an *in vivo* ionophoretic study

47P **McCall RB & Clement ME** The role of 5-HT and GABA in the regulation of the 10-Hz rhythm in sympathetic nerve discharge

48P **Dando SB, Jordan D & Ramage AG** Central $5\text{-}HT_{1A}$ and $5\text{-}HT_{1D}$ receptors have opposing roles in the reflex activation of cardiac vagal motoneurones by upper airway stimulation in anaesthetized rabbits

49P **Gardiner SM, Kemp PA, March JE & Bennett T** Influence of dexamethasone on the regional haemodynamic responses to lipopolysaccharide in conscious rats: effects of the non-selective endothelin antagonist, SB 209670

50P **Alexander B, Browse DJ, Mathie RT & Benjamin IS** The role of adenosine in hepatic arterial vasodilatation induced by portal venous injections of ATP in the isolated dual-perfused rabbit liver

51P **Liu YJ, Jackson DM & Blackham A** Effects of BW A868C on exogenous PGD_2-induced nasal congestion in anaesthetised dogs

52P **Bernareggi M, Mitchell JA, Barnes PJ & Belvisi MG** Dual action of nitric oxide on airway inflammation: differential effects at different airway levels

53P **Kengatharan M, De Kimpe SJ, Thiemermann C & Vane JR** Effect of aminoguanidine on the circulatory failure and organ injury elicited by staphylococcal lipoteichoic acid and peptidoglycan in the anaesthetised rat

54P **Aitchison KA & Coker SJ** Effects of SIN-1 and iloprost, alone and in combination, on myocardial infarct size in anaesthetized rabbits

55P **Dewhurst M, Omawari N & Tomlinson DR** Endoneurial nitric oxide deficiency in diabetic rats: effects of aminoguanidine treatment

56P **Riaz SS & Tomlinson DR** Clenbuterol stimulates nerve growth factor expression in control and diabetic rats: effects on neuropeptides

57P **Zhang IJ, Loro JF, Li Q, Pfaffendorf M & van Zwieten PA** Positive chronotropic effect of bradykinin in pithed rats and in isolated rat atria

58P **Bhagat K, Collier J & Vallance P** Endothelial dysfunction following a brief exposure to endotoxin

59P **Huang C & Johns EH** Effect of nitrendipine on pressure-natriuresis curves in anaesthetised 2K1C Goldblatt and DOCA-salt hypertensive rats

60P **Summers RJ, Roberts SJ, Papaioannou M & Evans BA** Functional and molecular evidence for β3-adrenoceptors in human and rat gastrointestinal tissues

61P **Grimwood S, Le Bourdellès B, Cockett W, Atack J, Hutson PH & Whiting PJ** Homomeric and heteromeric NMDA receptor subunit assemblies can coexist within the same stable cell line

62P **Göthert M & Finck K** Differential ethanol sensitivity of native NMDA receptors stimulating neurostransmitter release: probable relationship to subunit composition

63P **Perkinton MS & Sihra TA** ω-Conotoxin MVIIC reversibly inhibits high-K^+- and 4-aminopyridine-evoked gluatamate release from isolated nerve terminals (synaptosomes)

64P **Salt TE & Turner JP** Antagonism of the presynaptic action of L-AP4 on GABAergic inhibitory transmission by (±)-α-methyl-4-phosphonophenylglycine (MPPG) in the rat ventrobasal thalamus

65P **Mathie A, Amos BJ & Richards CD** Pharmacological characterisation of metabotropic glutamate receptor-induced increases in intracellular [Ca^{2+}] in cultured rat cortical neurones and glial cells

66P **Boddeke HWGM** Pharmacological and kinetic properties of calcium transients induced by mGluR agonists in various regions of rat hippocampus *in vitro*

67P **Urenjak J, Zilkha E & Obrenovitch TP** Origin of depolarizations evoked in the rat striatum by competitive inhibition of glutamate uptake with L-*trans*-pyrrolidine-2,4-dicarboxylate (L-*trans*-PDC)

68P **Chazot PL, Cik & Stephenson FA** Evidence for at least two NR1 subunits per NMDA receptor as deduced from the radioligand binding properties of wild-type and mutant NR1.NR2a receptors

69P **Lodge D, Bond A, Goldsworthy J, Baker SR, Schoepp DD & Monn JA** Potentiation of AMPA-induced excitation by selective metabotropic glutamate receptor agonists on rat spinal neurones *in vivo*

70P **Thomas NK, Jane DE, Tse H-W & Watkins JC** (S)-α-ethyl-glutamic acid and (RS)-α-cyclopropyl-4-phosphonophenylglycine as antagonists of L-AP4- and (1S,3S)-ACPD-induced depression of monosynaptic excitation of neonatal rat motoneurones

71P **Seabrook GR, Dawson G & Bowery BJ** Modulation of long-term potentiation in CA1 region of hippocampal brain slices by benzodiazepines

72P **Keen M & Krane A** The effect of K^+-depleted medium on iloprost- and forskolin-mediated down-regulation of IP prostanoid receptors in NG108-15 cells

73P **Teixeira MM & Hellewell PG** Differential effects of protein kinase C inhibition on PAF- and C5a-induced eosinophil activation

74P **Pabla R & Curtis MJ** Effect of L-NAME and L-arginine on cardiac stunning (recovery of systolic and diastolic contractile function during reperfusion following normothermic global ischaemia) in rat isolated heart

75P **Burke-Gaffney AC & Hellewell PG** Nitric oxide synthase inhibitors potentiate cytokine-induced damage of murine lung epithelial cells

76P **MacAllister RJ, Whitley GStJ, Parry H, Kimoto M, Ogala T, Hodson H, Moncada S & Vallance P** Regulation of NO synthesis by dimethylarginine dimethylaminohydrolase

77P **Plane F, Najibi S, Cohen RA & Garland CJ** Role of nitric oxide in repolarization and relaxation to acetylcholine in the rabbit isolated carotid artery

78P **Bishop-Bailey D, Larkin SW, Pepper JR Yacoub M, Warner TJ & Mitchell JA** Comparison of the ability of human, rat and rabbit vessels to produce nitric oxide and prostanoids in response to LPS

79P **Bishop-Bailey D, Larkin SW, Williams TJ & Mitchell JA** Inducible isoforms of NOS and COX contribute to the sustained release of NO and PGE_2 by segments of rat aorta exposed to LPS in organ culture

80P **Saunders MA, Belvisi MG, Barnes PJ, Williams TJ, Mitchell JA** Comparison of the effects of nonsteroidal anti-inflammatory drugs as inhibitors of COX-2 metabolites derived from endogenous versus exogenous arachidonic acid

81P **Dahlén S-E, Bäck M, Rosenqvist U, Wikström-Jonson E** Observations on functional receptors for cysteinyl-leukotrienes in selected smooth muscles

82P **Saunders MA, Mitchell JA, Hirst SJ, Williams TJ, Yacoub MH, Barnes PJ & Belvisi MG** Characterisation of cyclo-oxygenase-2 induction in human airway smooth muscle cells

83P **Carver JE & Robinson C** Dexamethasone attenuates gelatinase activity in stimulated human lung fibroblasts and epithelial cells

84P **Naseem KM & Bruckdorfer KR** The influence of organic peroxides on platelet aggregation and sensitivity to nitric oxide

85P **Gates SC, Bruckdorfer KR, Mitchell J, Bishop-Bailey D & Jacobs M** Nitrite production in the endotoxin-treated isolated aorta from the Watanabe hereditary hyperlipidaemic rabbit

86P **Rupin A, Behr D & Verbeuren TJ** Expression of functional brain and macrophagic NO-synthases in the atherosclerotic rabbit aorta

87P **Kolios G, Murphy CT, Robertson DAF & Westwick J** Modulation of inducible nitric oxide synthase (iNOS) activity in the human colon epithelial cell line HT-29: dual effect of interleukin-13 (IL-13)

88P **Geppetti P, Figini M, Emanueli C, Javdan P & Bertrand C** Tachykinins relax the guinea-pig trachea by stimulating an epithelial 'septide-insensitive' NK_1 receptor which releases NO: evidence for NK_1 receptor subtypes?

89P **Griesbacher T, Rainer I & Griengl S** Contribution of 5-hydroxytryptamine release from mast cells to rat paw oedema induced by wasp venom and synthetic kinins

90P **Kelly DC, Asghar AUR, McQueen DS Perkins MN** Effects of bradykinin and desArg9-bradykinin on afferent neural discharge in interleukin-1β-treated rat knee joints

91P **Burns NJ, Brett L, Kelly PAT, Lawrence JA Olverman HK & Williams BC** Specific localisation of the 5-HT transporter in the rat adrenal medulla

92P **Assié MB & Koek W** 8-OH-DPAT may have 5-HT uptake blocking properties in rat hippocampus

93P **Hirst WD, Rattray M, Price GW & Wilkin GP** Astrocytes *in vitro* express functional $5\text{-}HT_7$ receptors

94P **Lovick TA, Schenburg LC** $5\text{-}HT_{1A}$ receptors are involved in inhibition of the midbrain-evoked cardiovascular defence response by nucleus raphe obscurus

95P **Iravani MM & Kruk ZL** Effects of NMDA receptor antagonists on 5-HT release in rat substantia nigra

96P **Steward LJ, Boess FG, Steele JA & Martin IL** Agonist/antagonist recognition properties of the $5\text{-}HT_3$ receptor: importance of glutamate 106

97P **Neil KE, Alexander SPH & Kendall DA** Binding of the β-adrenoceptor antagonist radioligand [^{125}I]-iodocyanopindolol to particulate preparations from the guinea-pig cerebral cortex and cerebellum

98P **Bufton HR, Lodge D & Kilpatrick IC** Evidence for a preferential blockade of inhibitory synaptic transmission by ω-agatoxin IVA in the *in vitro* spinal cord of the neonatal rat

99P **Croning MDR & Newberry NR** Effect of dantrolene on the perturbations in ionic homeostasis induced by combined oxygen and glucose deprivation in the rat hippocampus *in vitro*

100P **Ward PS, Boden T, Woodger R, Porter J, Leonard J, Bodmer M & Foulkes R** Steroid sulphatase inhibition ameliorates collagen-II arthritis in mice

101P **Rupniak NMJ, Carlson E, Boyce S, Webb JK & Hill RG** Enantioselective inhibition of the formalin paw late phase by the NK_1 receptor antagonist L-773,060 in gerbils

102P **Ahluwalia A & Vallance PJ** Sensory nerve activation of rat small mesenteric veins

103P **Trezise DJ & Humphrey PPA** Activation of peripheral sensory neurones in the neonatal rat tail by ATP

104P **Westfall TD, McIntyre CA, Obeid S, Kennedy C & Sneddon P** Characterisation of P_{2X}-purinoceptors in guinea-pig isolated vas deferens using agonists, antagonists and the ecto-ATP-ase inhibitor ARL 67156

105P **Charlton S, Brown C & Boarder MR** Transfected P_{2U}- and P_{2Y}-purinoceptors: differential sensitivity to suramin

106P **Grahames CBA, Michel AD & Humphrey PPA** ATP-stimulated ^{45}Ca uptake as a means of measuring P_{2X} purinoceptor activation in PC12 cells

107P **Newgreen DT & Naylor AM** Comparison of the functional muscarinic receptor selectivity of darifenacin with tolterodine and oxybutinin

108P **Eglen RM, Peelle B, Pulido-Rios MT & Leung E** Muscarinic M2 receptors modulate relaxant responses to 5-HT_4 receptor and β_3-adrenoceptor agonism in isolated oesophageal muscularis mucosae of rat

109P **Chess-Williams R, Noble AJ, Couldwell C Rosario DJ & Chapple CR** The α_1-adrenoceptor antagonist SB216469 (REC 15/2739) discriminates between α_{1A}-adrenoceptors and the α_1-adrenoceptors of the human prostate

110P **Marshall I, Green M, Hussain MB & Burt RP** Differences in affinity for the antagonist RS 17053 at α_{1A}-adrenoceptors between rat tissues

111P **Hadoke PWF, Dillon JF, Walker SW, Williams BC, John TG & Hayes PC** Hyporesponsiveness to α-adrenoceptor agonists in cirrhotic patients is not evident when human hepatic and mesenteric arteries are studied *in vitro*

112P **Haynes JM & Hill SJ** α-Adrenoceptor-mediated responses in the cauda epididymis of the guinea-pig

113P **Jordan NJ, Watson ML, Williams RJ, Roach AG, Yoshimura T & Westwick J** Chemokine production by human vascular smooth muscle cells: modulation by IL-13

114P **Teixeira MM, Giembycz MA & Hellewell PG** Mechanisms involved in the activation of eosinophil aggregation by arachidonic acid

115P **de Silva HA, Carver JG & Aronson JK** Stimulation of potassium (^{86}rubidium) efflux from human platelets by external potassium and its inhibition by bumetanide: evidence for Na/K/Cl co-transport

116P **Hardingham N & Randall AD** Biophysical analysis of the interaction of Ro 405967-15 with K^+ channels in the rat NG108 cell-line

117P **Petersson J, Zygmunt PM & Högestätt ED** Charybdotoxin and apamin inhibit relaxations mediated by EDHF in the guinea-pig basilar artery

118P **Högestätt ED & Zygmunt PM** Role of potassium channels in endothelium-dependent relaxation resistant to nitroarginine in the rat hepatic artery

119P **Razzaque Z, Baker R, Beer MS, Hill RG, Matassa VG, Stagg AT, Sternfeld F, Street L & Longmore J** *In vitro* pharmacological effects of two novel 5-HT_{1D}-receptor agonists L-741,519 and L-741,604: comparison with sumatriptan and BW311C

120P **Zygmunt PG, Högestätt ED, Edwards G Ortiz de Montellano PR & Weston AH** Effects of cytochrome P450 inhibitors on endothelium-dependent and levcromakalim-induced responses in rat blood vessels

121P **Stassen FRM, Fazzi GE, Willemsen MJJMF Janssen GMJ & De Mey JGR** Progressive reduction of maximal active wall stress in rat mesenteric resistance arteries following myocardial infarction

122P **Soares-da-Silva P, Serrão MP & Marques C** Kinetics of L-DOPA uptake in LLC-PK_1 cells in culture

123P **Soares-da-Silva P, Serrão MP & Pestana M** Effects of short- and long-term exposure of LLC-PK_1 cells to cyclosporine A on the formation and outflow of dopamine

124P **Aherne AM, Vaughan CJ & Murphy MB & O'Connell DP** Co-localisation of dopamine D_{1A} receptor protein and mRNA in rat colon

125P **Vaughan CJ, Aherne AM & Murphy MB & O'Connell DP** Immunohistochemical mapping of a novel dopamine D_{1B} receptor in rat kidney

126P **Wardle KA, Bingham S, Ellis ES, Gaster LM, Rushant B, Smith MI, Brown AM, Young TJ & Sanger GJ** SB 207266: The first potent and selective 5-HT_4 receptor antagonist amide with oral activity

127P **Coleman T, Ellis SW, Martin IJ, Lennard MS & Tucker GT** MPTP is N-demethylated by CYPs 2D6, 1A2 and 3A4: implications for susceptibility to Parkinson's disease

128P **O'Shea D, Kim RB & Wilkinson GR** Modulation of CYP2E1 activity by isoniazid in fast and slow N-acetylators

129P **Pilowsky LS, Busatto GF, Taylor M, Costa DC, Sharma T, Sigmundsson T, Ell PJ, Nohria V & Kerwin RW** Striatal dopamine D_2 receptor binding estimated *in vivo* in olanzapine-treated schizophrenic patients by ^{123}I IBZM single photon emission tomography (SPET)

POSTER COMMUNICATIONS

130P **Nunn PA, Greengrass PM, Newgreen DT, Naylor AM & Wallis RM** The binding profile of the novel muscarinic receptor antagonist darifenacin against the five cloned human muscarinic receptors expressed in CHO cells

131P **Yang M, Taguchi K, Erdbrügger W & Michel MC** Is protein kinase C involved in agonist-induced down-regulation of MDCK cell α_1-adrenoceptors?

132P **Boyland PS, Eastwood S, Ellis C, Bergsma D, Jones BJ, Gloger IS, Upton N & Middlemiss DN** High specific activity [^{3}H]5-CT binding: correlation of guinea-pig cortex with human cloned 5-HT$_7$ receptors

133P **Gager TL, Holland V, Thomas DR, Blackburn TP & Wood MD** The novel 5-HT$_{2C/2B}$ receptor antagonist SB206553 is a potent and surmountable antagonist at cloned human receptors

134P **Viggers JA, Cheetham SC, Ruck A & Heal DJ** Effect of antidepressant drugs on 5-HT2$_A$ receptors in cultured rat glioma C$_6$ cells

135P **Patten D, Martin KF & Halliwell RF** A study of the effect of propofol on neuronal GABA$_A$, 5-HT$_3$, P$_{2x}$ and nACh receptors

136P **Borman RA& Burleigh DE** Characterisation of the receptors mediating 5-HT-induced fluid secretion in human colonic mucosa

137P **Thomas DR, Baxter GS, Carey JE, Gager TL, Gale DG, Holland V, Muir A, Wilson S & Wood MD** SB 204741 is a selective antagonist at the cloned human 5-HT$_{2B}$ receptor stably expressed in HEK 293 cells

138P **Schoeffter P, Bobirnac I, Ullmer C, Gabbiani G & Lübbert H** Functional, endogenously expressed 5-HT$_7$ receptors in human vascular smooth muscle cells

139P **Boyfield I, Gager TL & Coldwell MC** Functional potencies of novel human 5-HT$_{2C/2B}$ receptor antagonists determined in the Cytosensor Microphysiometer

140P **Needham PL, Atkinson J, Cheetham SC, Dinnis D, Slater NA, O'Brien EC & Heal DJ** Binding of zotepine, clozapine and haloperidol to 5-HT receptor subtypes

141P **Hirst WD, Rattray M, Price GW & Wilkin GP** Regional differences in functional 5-HT$_7$ receptor expression by cultured astrocytes

142P **Gallacher M & Ramage AG** Evidence which indicates that the activation of central 5-HT$_{1D\alpha}$ receptors can cause hypotension in anaesthetized rats

143P **Willars GB, Challiss RAJ & Nahorski SR** Effects of phorbol ester versus agonist-mediated protein kinase C activation on muscarinic receptor-stimulated phosphoinositide turnover in SH-SY5Y cells

144P **Wise H & Chow BS** The lack of effect of nitric oxide on rat peritoneal neutrophil aggregation

145P **Ruetten H, Southan GJ, Abate A & Thiemermann C** Effects of 1-amino-2-hydroxyguanidine, a potent inhibitor of inducible nitric oxide synthase, on multiple organ dysfunction caused by endotoxin

146P **Zhang C, Schmidt M & Jakobs KH** Inhibition by toxin B of G protein-coupled and tyrosine kinase receptor-mediated phospholipase C stimulation

147P **Grix SP, Gardiner PJ, Westwick J & Poll CT** Investigation of signal transduction processes involved in agonist-induced leukotriene C$_4$ generation in human eosinophils

148P **Cross KML, Jane SD, Wild AE, Foreman RC & Chad JE** Non-depolarizing muscle relaxants differentiate between mouse muscle nicotinic acetylcholine receptors expressed in *Xenopus* oocytes and quail fibroblasts

149P **Garland CM, Foreman RC, Holden-Dye L & Walker RJ** The effect of pancuronium bromide on muscle and neuronal nicotinic acetylcholine receptors (nAChRs) expressed in *Xenopus* oocytes

150P **Ahmad M, Ahmadi M, Smith HJ & Nicholls PJ** Species comparison of the *in vitro* hepatic metabolism of retinoic acid

151P **Ahmad M, Ahmadi M, Smith HJ & Nicholls PJ** *In vitro* metabolism of retinoic acid by various rat tissues: implications for inhibitors

152P **Heath BM & Terrar DA** Block of min K current by propofol and thiopentone in *Xenopus* oocytes

153P **Bright F, Cilia J, Piper D, Blackburn TP & Kennett G** Effects of SB 206553, a 5-HT$_{2C/2B}$ receptor antagonist, in a marmoset conflict model of anxiety

154P **Attwell PJE, Kaura S, Sigala G, Bradford HF, Croucher MJ, Jane DH & Watkins JC** Blockade of both glutamate release and seizure activity by the presynaptic glutamate receptor agonist (1S,3S)-ACPD

155P **McBean DE, Redfern WS, Winters V, Williams A & Oswald CB** Further studies on the link between the loss of neuroprotective effect of lifarizine at a high dose and its hypotensive effects, using rats implanted with telemetry transducers

156P **Campbell CA, King PD, Price WJ, Barone FC, Feuerstein GZ, Hamilton TC & Hunter AJ** Neuroprotective and cardiovascular effects of SB 206284A in rats

157P **Al-Zahrani SSA, Ho M-Y, Velazquez-Martinez DN, Lopez Cabrera M, Bradshaw CM & Szabadi E** Effect of lesions of the 5-hydroxytryptaminergic pathways on performance in an operant timing task

158P **Smith JK, Neill JC & Costall B** The effect of dopamine receptor antagonists on responding for a conditioned reinforcer in the rat

159P **Wilson AW, Neill JC & Costall B** A comparison of acquisition and expression of the ethanol discriminative cue in female rats of Sprague Dawley and Lister-Hooded strain

160P **Samson NA, Olufsen KF, Hamilton TC & Hunter AJ** The effect of renzapride and its enantiomers on learning in the common marmoset

161P **Patel S & Hutson PH** Inhibition by galanin of 5-HT_2 receptor-mediated PI hydrolysis and head twitch behaviour

162P **Meoni P & Bowery NG** Mutual interaction between dextromethorphan and paroxetine in rat brain

163P **Snape MF, Anderson SMP, Misra A, Paccagnini PJ, Murray TK, Cross AJ & Green AR** A comparison of the cholinesterase inhibitors tacrine and E-2020

164P **Srinivasan J, Richens A & Davies JA** Losigamone reduces glutamate and aspartate release from mouse cortex

165P **Bourson A, Wanner D & Petit N** Metabotropic glutamate receptors (mGluRs) Group 1 agonists induce catalepsy in mice

166P **Lorez HP, Fischer G & Bourson A** Neuroprotective properties of the NMDA receptor open channel blocker Ro 24-6173 in rats

167P **Stricker-Krongrad A, Souquet A-M, Jackson HC & Burlet C** Effect of various monoamine receptor antagonists on the decrease in food intake induced by sibutramine in the rat

168P **Jackson HC, Bearham MC, Mazurkiewicz SE, Heal DJ & Buckett WR** Investigation of the mechanisms underlying the hypophagic effects of the 5-HT and NA reuptake inhibitor sibutramine in the rat

169P **Gosden J, Buckett WR & Heal DJ** d-Amphetamine-cued drug discrimination in rats: predictive value for detecting stimulant drugs of abuse

170P **Connoley IP, Frost I, Heal DJ & Stock MJ** Role of β-adrenoceptors in mediating the thermogenic effects of sibutramine

171P **Bayley PJ, Bentley G & Dawson GR** Behavioural evaluation of SX-3228, a potent anticonvulsant

172P **Young L & Bristow LJ** The glycine/NMDA receptor antagonist, L-701,324, reverses isolation rearing-induced hyperlocomotion in the rat

173P **Saywell KL, Cook GP & Bristow LJ** The glycine/NMDA receptor antagonist, L-701,324, attenuates the deficit in prepulse inhibition of acoustic startle responding induced by amphetamine in the rat

174P **Ballard TM, Hunter AJ & Bennett GW** The TRH analogue, RX77368, improves a working memory deficit in AMPA-induced septal-hippocampal lesioned rats

175P **Getova D, Bowery NG & Blackburn TP** Effects of 5-HT_3 antagonists BRL 46470A and ondansetron on learning and memory in mice

176P **Giustino A, Cuomo V, Beckett S & Marsden CA** Reduced novel object exploration in rats perinatally exposed to cocaine

177P **Mirza NR, Jackson HC, Dickinson SL & Nutt DJ** Effect of the I_2-ligand 2-BFI on passive avoidance performance in the rat

178P **Ainsworth K, Trail B, Blackburn TP, Baxter GS & Kennett GA** Is BW 723C86-induced hyperphagia an *in vivo* model of rat central 5-HT_{2B} receptor function?

179P **Griebel G, Perrault G & Sanger GJ** Further evidence for behavioural differences between selective BZ-1 (ω1) and non-selective BZ (ω) receptor ligands in rats

180P **Ward JL, Lightowler S, Kennett GA & Blackburn TP** Effect of the selective 5-$HT_{2B/2C}$ receptor antagonist, SB 206553, on mCPP- and environmental stress-induced increase in plasma adrenocorticotropic hormone in rats

181P **Smith SL, Mason K, Stanford SC, Prow MR & Heal DJ** DSP-4 neurotoxicity in rat brain: effect on heat-shock protein expression and *in vivo* noradrenaline efflux

182P **Smythe JW, Murphy D, Timothy C & Costall B** Exogenous corticosterone administration increases anxiety in rats

183P **Widdowson PS, Gyte A, Upton R, Wyatt I, Foster JR & Lock EA** L-2-Chloropropionic acid-induced cerebellar necrosis is not the result of lipid peroxidation or DNA damage

184P **McAllister KHM & Pratt JA** Effect of ondansetron on apomorphine-induced conditioned taste aversions in rats

185P **Jelic P & Taberner PV** Effects of isradipine on hormone-sensitive lipase activity of brown adipose tissue in mice during withdrawal from chronic ethanol treatment

186P **Riedl AG, Watts PM, Couek DC, Edwards RJ, Boobis AR & Jenner P** CYP2E1 is expressed in dopaminergic neurones in the rat substantia nigra

187P **Warren DL, Jenner P & Halliwell B** *In vitro* antioxidant actions of antiparkinsonian agents

188P **Stefferl A, Storch M, Lassmann H, Holsboer F, Wekerle H & Linington C** Myelin oligodendrocyte glycoprotein (MOG) induces chronic relapsing experimental allergic encephalomyelitis (CR-EAE) in the DA rat

189P **Staton P & Bristow DR** Mechanisms of β-methylamino-L-alanine (BMAA)- and β-oxalylamino-L-alanine (BOAA)-induced death in rat cerebellar granule cells

190P **Lydford SJ, Li SW & McKechnie KCW** Comparison of prostanoid DP-receptors in the rabbit isolated saphenous vein and human neutrophil

191P **Westfall TD, Obeid S, McIntyre CA, Kennedy C & Sneddon P** Characterisation of P_{2X} purinoceptors in guinea-pig isolated urinary bladder strips using agonists, antagonists and the ecto-ATPase inhibitor ARL 67156

192P **de Graeff BD & Reinders JH** Endothelin-1-mediated A7r5 smooth muscle cell activation: separation of dual effect by verapamil and 8Br-cGMP

193P **Green ME, Edwards G & Weston AH** Pharmacological characterisation of the inwardly-rectifying current in the smooth muscle cells of rat bladder

194P **Astolfi M, Mak JCW, Barnes PJ, Evangelista S & Manzini S** Tracheobronchial distribution and density of tachykinin NK_1 and NK_2 receptors in normal and multiple antigen-challenged guinea-pigs

195P **Hills DM, Gerskowitch VP, Roberts SP, Welsh NJ, Shankley NP & Black JW** Pharmacological analysis of the CCK_B/gastrin receptors involved in pentagastrin-stimulated gastric acid secretion in the isolated immature rat stomach

196P **Asonganyi B, Borkowski J, Hess JF, Shaw D, Hill RG & Longmore J** Induction of B_1-receptor-mediated functional responses in mouse urinary bladder: effects of genetic depletion of the B_2-receptor gene

197P **Freitag A, Wessler I & Racké K** Adrenoceptor-mediated modulation of 5-HT release from neuroepithelial cells of trachea of newborn rabbits

198P **Goepel M, Erdbrügger W, Wittmann A & Michel MC** Atypical affinities of ICI 118,551 at porcine β_2-adrenoceptors

199P **Yeung CK, McCurrie JR & Wood D** Inhibitory effects of rubidium on the actions of potassium channel modulators in mouse ileum are apparent at a physiological potassium concentration

200P **Martin SW, Radley SC, Chess-Williams R, Chapple CR & Korstanje C** Relaxant effects of levcromakalim and YM 934 in human isolated detrusor strips from stable and unstable bladders

201P **Bushfield M, Kenny BA & Parker N** Facilitation by 5-HT of ATP-mediated electrically-stimulated contractions in the pig urinary bladder

202P **Davies CL, Gold MG, Merner PA & Rankin AJ** *In vivo* bladder selectivity of the novel muscarinic antagonist, darifenacin, in the conscious minipig

203P **Medhurst AD, Hay DWP & Parsons AA** Evidence for NK_3 receptor subtypes in rabbit isolated iris sphincter muscle using the NK_3 receptor antagonists SR 142801 and SR 48968

204P **Ellis ES, Tilford NS, Baxter GS & Sanger GJ** A comparison of N-type calcium channels in human and rat isolated vas deferens by rank order of ω-conotoxin activity

205P **Yianni NC & Williams RG** L-NAME has no effect on the length-tension relationship of rat detrusor muscle *in vitro*

206P **Hilton JEBP & Williams RG** Characterisation of the receptors that mediate the adrenergic component of non-nicotinic vagally-evoked relaxation of the rat stomach *in vitro*

207P **Danahay H & Broadley KJ** Effects of Ro 20-1724, a selective inhibitor of phosphodiesterase IV, on the development of acute antigen-induced bronchial hyperreactivity and airway leukocyte infiltration in sensitised guinea-pigs

208P **Handy RLC, Whitehead KJ & Moore PK** Inhibition of nitric oxide synthase isoforms by 1-(2-trifluoromethylphenyl) imidazole (TRIM) and related phenylimidazoles

209P **Pocock TM & Small RC** Studies of the effects of SCA40 in relaxing bovine trachealis muscle and in inhibiting isoenzymes of cyclic nucleotide phosphodiesterase

210P **McArdle S, Isaac LM & Small RC** Effects of iberiotoxin on the mechanical and electrical activity of guinea-pig trachealis muscle

211P **Hemati AA & Hicks RR** Chromate-induced fibrogenesis associated with the development of contractile myofibroblasts

212P **Patacchini R & Maggi CA** Effect of cyclopiazonic acid on contractions produced by tachykinin NK_1 and NK_2 receptor agonists in the circular muscle of guinea-pig colon

213P **Jones EH, Bungay PJ, Greengrass PM & Smith CM** Comparison of the effects of various methods of cell culture on the activation of the transfected human NK_2 receptor

214P **Smith J & Little HJ** The calcium channel antagonist, nimodipine, given before practice in a test of ataxia, increases the development of tolerance to ethanol

215P **Lilley EA & Gibson A** Protection of nitric oxide from hydroquinone by some physiological antioxidants

216P **Williams SH & Parsons ME** Nitric oxide mediates relaxations of the frog oesophagus to transmural electrical stimulation

217P **Slee S-J, Heys C & Wilson C** ET receptors involved in the blood pressure response to endothelins in the rat

218P **Li Q, Zhang J, Pfaffendorf M & van Zwieten PA** Direct positive chronotropic effect of angiotensin III in pithed rats and isolated rat atria

219P **Dubois EA, Somsen GA, Janssen AFM, van de Bos JC, Batink HD, Pfaffendorf M, van Royen EA & van Zwieten PA** Affinity and biodistribution of an iodinated derivative CGP 12177 developed for the imaging of cardiac β-adrenoceptors *in vivo*

220P **Somsen GA, Dubois EA, Brandsma K, de Jong J, van der Wouw PA, Batink HD, van Royen EA, Pfaffendorf PA, Lie KI & van Zwieten PA** Cardiac sympathetic neuronal activity and function in the early phase of left ventricular volume and pressure overload

221P **Flynn DA, Birrell MA, Brazdil R, McCormick J, Layland K, Handscombe C, Brown TJ, Roach AG & Sargent CA** Comparison of the ETA receptor potency of selective and non-selective ET antagonists *in vivo* and *in vitro*

222P **Birrell MA, Wong ML, Handscombe C, Flynn DA, Sargent CA, Brazdil R, Brown TJ & Roach AG** A bioassay for measurement of levels of ET receptor antagonists in plasma and correlation with *in vivo* potency

223P **Key BJ & Hashmi MP** The influence of nitric oxide in the rostral ventrolateral medulla of the anaesthetised rat during temperature regulation

224P **Hamon G & Jouquey S** Effects of subchronic administration of niravoline, a novel aquaretic compound, on water and electrolyte renal excretion in cirrhotic rats

225P **Vayssettes-Courchay C, Lacoste J-M, Cordi AA, Laubie M &Verbeuren TJ** *In vivo* cardiovascular effects of the α-adrenoceptor agonist S 18149 in the anaesthetized dog

226P **Varró A, Papp JGy, Németh M, Krassói I, Mester L & Hála O** Direct and long-term electrophysiological effects of amiodarone in dog cardiac Purkinje and ventricular muscle fibres

227P **March JE, Gardiner SM, Kemp PA & Bennett T** Regional haemodynamic responses to vasodilators in conscious, transgenic [(mRen-2)27], hypertensive rats

228P **Bennett T, Kemp PA, March JE & Gardiner SM** Haemodynamic effects of lipopolysaccharide (LPS) infusion in conscious, vassopressin-deficient Brattleboro rats

229P **McCulloch AI & Randall MD** Characterisation of endothelium-dependent relaxations in the isolated perfused rat superior mesenteric arterial bed: the involvement of EDHF

230P **Marsh KA, Draper LM, Rubin PC & Hill SJ** Characteristics of human umbilical artery endothelial cells maintained in a low oxygen environment

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233P **Brownlie RP, Brownrigg NJ, Butcher HM, Garcia R, Jessup R, Lee VJ, Moors JA & Wayne MG** ZD9583: a dual acting thromboxane A_2 synthase inhibitor/receptor antagonist suppresses neointimal hyperplasia in the rat

234P **Van der Graaf PH, Shankley NP & Black JW** Analysis of antagonism of phenylephrine-mediated contraction of the rat small mesenteric artery

235P **Hannon JP & Fozard JR** Selective suppression of adenosine A_1 receptor-mediated hypotensive responses in the rat by dexamethasone

236P **Smith SE, Man CM, Yip PK, Tang E, Chapman AG & Meldrum BS** The nitric oxide synthase product, L-citrulline and the nitric oxide donor, SIN-1 are convulsant, whilst L-arginine is anticonvulsant in rodents with inbred reflex epilepsy

237P **Hunter JC, Lewis R, Eglen RM & Fontana DJ** The role of α and β adrenoceptors in a rodent model of neuropathic pain

238P **Pleass RD, Moore UM, Roach AG & Williams RJ** Quantification of chemokine-induced changes in extracellular acidification rate of THP-1 cells using a microphysiometer

239P **Abate A, Kengatharan M, Ruetten H, Hirschelmann R, Thiemermann C & Vane JR** Induction of cyclooxygenase-2 by lipoteichoic acid in bovine endothelial cells involves the activation factor NF-$_\kappa$B

240P **Ridger VC & Brain SD** The effect of L-*N*^{6}-(1-iminoethyl)lysine on zymosan-induced oedema in rat dorsal skin

241P **Fletcher S & Barnes NM** Autoradiographic localisation of [^{3}H]-(S)-zacopride labelled 5-HT$_3$ receptor sites in the pig forebrain

242P **Mason GS, Tattersall FD, Hill RG & Hargreaves RJ** Effect of the NK$_1$ receptor antagonists, L-733,060 and CP-99,994, and morphine in the rabbit spinal reflex preparation

243P **Patel Shil, Freedman SB & Patel Smita** [^{3}H]Epibatidine: a novel high affinity ligand at neuronal nicotinic acetylcholine receptors

244P **Pilcher CWT & Bitar MS** Attenuation of α_2 adrenoceptor-mediated nociception in diabetic rats

245P **Boyce S, Rupniak NMJ, Carlson EJ, Webb JK, Borkowski JA, Hess JF, Strader CD & Hill RG** Nociception and inflammatory hyperalgesia in B$_2$ bradykinin receptor knockout mice

246P **West KJ & Campbell EA** 4-Methylcatechol induces mechanical hyperalgesia in naïve adult rats by a nerve growth factor-dependent mechanism

247P **Gentry CT, Patel S, Winter J & Campbell EA** 4-Methylcatechol, an inducer of endogenous nerve growth factor (NGF) synthesis, has analgesic actions in a model of neuropathic pain

248P **Patel S, Gentry CT & Campbell EA** A model for the *in vivo* evaluation of tachykinin NK1 receptor antagonists using carrageenan-induced hyperalgesia in the guinea-pig paw

249P **Winkler Prins EA, Zwaveling J, Pfaffendorf M & van Zwieten PA** The effect of hyperthyroidism on β–adrenoceptors in rat isolated thoracic aortae

250P **Smith RR, Maxwell MP & Martin GR** Further investigation into amplifying interactions between 5-HT$_{1D}$ and angiotensin AT$_1$ receptors in vascular smooth muscle

251P **Pfaffendorf M, Beenen OEM, Mathy M-J & van Zwieten PA** Vascular reactivity of renal arteries from spontaneously hypertensive rats with streptozotocin-induced diabetes mellitus

252P **Beenen OHM, Pfaffendorf M & van Zwieten PA** Blunted inhibitory effects of cholinergic agents in isolated hearts from hypertensive-diabetic rats

253P **Zwaveling J, Batink HD, Winkler Prins EA, Pfaffendorf M & van Zwieten PA** The influence of hyperthyroidism on the number of β-adrenoceptors in left ventricle and kidney is transient and time-dependent

254P **Hüsken BCP, van der Wal AC, Teeling P, Mathy M-J, Pijl AJ, Pfaffendorf M & van Zwieten PA** Influence of the hypertensive state on the pharmacological and morphological characteristics of rat isolated coronary arteries and aortae

255P **Côrtes SF, Andriantsitohaina R & Stoclet JC** Implication of endothelial and nonendothelial cyclooxygenase products in responses to angiotensin II of resistance arteries from spontaneously hypertensive rats

256P **Lagaud GJL, Stoclet JC & Andriantsitohaina R** Characterization of calcium stores and influx mechanisms involved in the contraction induced by noradrenaline in rat resistance arteries

257P **De Mey JGR, Zidek W, Struijker Boudier HAJ, Raat H & Spiering W** Diadenosine-pentaphosphate contracts and relaxes rat resistance arterial smooth muscle through P$_{2X}$-purinoceptors

258P **Welsh NJ, Ngambi GLO, Shankley NP & Black JW** Potentiating interactions between noradrenaline and angiotensin II in rabbit femoral artery are dependent on order of agonist incubation and assay conditions

259P **Green M, Burt RP & Marshall I** α_{1A}-Adrenoceptor subtype mediates tonic contractions to phenylephrine in rat hepatic portal vein

260P **Marshall I, Morrison JJ, Perera D & Rodeck CH** The effects of GTN, GSNO, SNAP, SIN-1 and L-arginine on contractility of isolated human pregnant myometrium

261P **Sooch S & Marshall I** Evidence for atypical β-adrenoceptors in the rat vasculature

262P **Wisskirchen F & Marshall I** Calcitonin gene-related peptide (CGRP) receptors in rat vas deferens, pulmonary artery, internal anal sphincter and thoracic aorta

263P **Criddle DN, Soares de Moura R, Domingos LR & de Lima Maia E** Vasorelaxant effects of SR 47063 in human saphenous vein and rat aorta

264P **Ellwood A & Curtis MJ** Sumatriptan evokes 5-HT$_{1D}$-like receptor-mediated coronary vasoconstriction and mesulergine-sensitive, NO-dependent, coronary vasodilatation in guinea-pig isolated heart

265P **Ruiz E, Cawley T & Docherty JR** Effects of nitric oxide synthase inhibition and methylene blue on vasoconstrictor responses in the rat

266P **Zeegers A, Leeuwin RS & van Wilgenburg H** PK 11195 modifies responses of isolated hearts to both centrally and peripherally acting benzodiazepines

267P **Burns NJ, Sephton C, Brett L, Olverman HJ & Williams BC** Role of L-aromatic amino acid decarboxylase in the regulation of aldosterone secretion by 5-HT

268P **Shepheard SL, Williamson DJ, Cook D, Hill RG & Hargreaves RJ** Studies on the sympatholytic effects of some 5-HT_{1D} receptor agonists in pithed rats and guinea-pigs

269P **Bailey S & Elliott J** Characterisation of 5-HT receptors mediating vasoconstriction of isolated equine digital arteries

270P **Peter MG & Davenport AP** Upregulation of the endothelin ET_A receptors in left ventricle from failing human hearts demonstrated using competition binding studies with FR139317

271P **Williamson DJ, Hargreaves RJ, Hill RG & Shepheard SL** Direct measurement of dural blood vessel diameter in the rat using intravital microscopy

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275P **Gardner N & Broadley KJ** Comparison of antagonism of adenosine receptor mediated responses by 8-(*p*-sulfophenyl) theophylline in four guinea-pig isolated cardiac preparations

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278P **Parsons SJW, Sumner M & Garland CJ** Apamin-sensitive responses to acetylcholine in rabbit isolated mesenteric arteries

279P **Monopoli A, Casati C, Forlani A, Marzanetti M & Ongini E** The *in vivo* cardiovascular pharmacology of the selective A_{2A} adenosine antagonist SCH 58261 in the rat and rabbit

280P **Harb HL, Handy RLC, Whitehead KJ & Moore PK** Lack of effect of 1-(2-trifluoromethylphenyl) imidazole (TRIM) on endothelium-dependent vasodilatation in rabbit aorta and perfused rat mesentery

281P **Van der Graaf PH, Shankley NP & Black JW** Effect of dopamine D_1 receptor blockade on noradrenaline-mediated contraction of the rat small mesenteric artery

282P **Hall DA & Strange PG** Inverse agonism of the neuroleptic drug (+)-butaclamol at the short isoform of the human D_2-dopamine receptor heterologously expressed in CHO cells

283P **Coley C, Woodward R, Naylor LH & Strange PG** The role of conserved serine residues in the binding of antagonists to the D_2 dopamine receptor

284P **Selvarajah J, Hodgkiss JP & Kelly JS** The effect of an adenosine A_1 receptor agonist and antagonist on long-term depression (LTD) in the rat hippocampus

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286P **Harper EA, Shankley NP & Black JW** Characterisation of the binding of a novel radioligand to CCK_B/gastrin receptors in rat cerebral cortical membranes

287P **Harper EA, Griffin E, Sykes DA, Shankley NP & Black JW** Characterisation of the binding of a novel CCK_B/gastrin receptor antagonist (JB93182) in mouse and rat cerebral cortex and guinea-pig pancreas

288P **Bundey RA, Iredale PA, Duman RS & Kendall DA** Dexamethasone modulation of second messenger responses in a locus coeruleus-like cell line

289P **Neil KE, Hernández F, Kendall DA & Alexander SPH** The effects of the isoenzyme-selective phosphodiesterase inhibitors, rolipram and zaprinast, on cyclic nucleotide levels in the guinea-pig cerebellum

290P **Hajós M & Sharp T** 5-HT neuronal lesion dramatically reduces the incidence of burst-firing dorsal raphe neurones in the rat

291P **Meller R, Elliott JM, Harrison PJ & Sharp T** Investigation of the turnover rate of 5-HT_{2A} receptors in C6 rat glioma cells using phenoxybenzamine

292P **Hirota K & Lambert DG** Comparison of the binding of [^{3}H]PN200-110 to rat brain, SH-SY5Y and NK108-15 membranes

293P **Nicol B, Rowbotham DJ & Lambert DG** Morphine inhibits glutamate release from rat cerebrocortical slices

294P **Bruton RK, Ge J & Barnes NM** Elevation of *in vivo* striatal dopamine release in the rat via activation of metabotropic glutamate receptors

295P **Stratton SC, Beresford IM & Hagan RM** Autoradiographic localization of tachykinin NK_2 receptors in adult rat brain using [^{3}H]SR48968

296P **Stratton SC, Beresford IM, Hagan RM & Marsden CA** GR159897, a non-peptide tachykinin NK_2 receptor antagonist, decreases 5-hydroxytryptaminergic cell firing in the dorsal raphe nucleus of the rat

297P **Lione L, Nutt DJ & Hudson AH** Affinity and selectivity of BU224 and BU239 for rat and guinea-pig brain I_2 imidazoline sites

298P **Gillard NP, Linton CJ, Milligan G, Carr IC, Patmore L & Brown CM** [^{3}H]RS-79948-147: a potent and selective α_2-adrenoceptor radioligand

299P **Thomas P, Sundaram H, Krishek BJ, Latham CJ, Bevan P, Stephenson FA & Smart TG** Xenovulene A, a novel compound active at $GABA_A$ receptors: functional studies on expressed recombinant and mammalian neuronal $GABA_A$ receptors

300P **Sundaram H, Thomas P, Chazot PL, Latham CJ, Bevan P, Smart TG & Stephenson FA** Xenovulene A, a novel compound active at $GABA_A$ receptors: characterisation by radioligand binding

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302P **Ahmad S, Fowler LJ, Leach MJ & Whitton PS** The effects of lamotrigine and sodium valproate (VPA) co-administration on veratridine-evoked glutamate and GABA release in the rat ventral hippocampus *in vivo*

303P **Rowley HL, Martin KF & Marsden CA** Repeated generalised seizures in the rat potentiate changes in hippocampal glutamate but not GABA release

304P **Parry KP, Drinkenburg WHIM & Bowery NG** Lack of alteration of $GABA_B$ receptor binding in the absence epileptic WAG/Rij strain of rat

305P **Bon C** Electrophysiological characterisation of $GABA_B$ agonists and antagonists in rat dorso-lateral septal neurones *in vitro*

306P **Misra A, Snape MF, Murray TK, Cross AJ & Green AR** The interaction of loreclezole with the $GABA_A$ receptor complex, an *in vivo* and *in vitro* study

307P **Zhong Y & Simmonds MA** Interactions between loreclezole, chlormethiazole and pentobarbitone at $GABA_A$ receptors in rat cuneate nucleus *in vitro*

308P **Stevenson A, Wingrove PB, Whiting PJ & Wafford** β-Carbolines modulate $GABA_A$ receptors via the loreclezole site as well as the benzodiazepine site

309P **Wingrove PB & Whiting PJ** Identification of a single amino acid on the γ subunit of the GABA-A receptor required for high affinity binding of [^{3}H]Ro15-1788

310P **Thompson SA, Wingrove PB, Whiting PJ & Wafford** Cloning of cDNA encoding the α4 subunit of the human γ-aminobutyric acid type A receptor and characterisation of the pharmacology of α4-containing receptors

311P **Williams M, Patel J, Wieczorek WJ, Iravani MM & Kruk ZL** Effect of striatal Fluoro-Gold injection in the rat neonate on dopamine release and autoreceptor function

312P **Dosanjh SS, Wieczorek WJ, Patel J, Iravani MM & Kruk ZL** Fluorogold and dopaminergic function in the rat caudate putamen

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314P **Huang EY-K, Bagust J, Sharma RP & Walker RJ** Naloxone and desaminoYFLFQPQRamide block potentiation by FLFQPQRFamide (NPFF) of the rat isolated spinal cord monosynaptic reflex (MSR)

315P **Burley JR & Dolphin AC** Inhibition of whole-cell calcium channel currents in rat cerebellar granule neurones by nicardipine and the Conus peptide ω-conotoxin-MVIIC

316P **Cadogan AK, Latif ML, Alexander SPH & Kendall DA** Evidence that cannabinoids have no effect on acetylcholine release in the rat cerebral cortex

317P **Hamid S, Daw G, Gray JA & Stephenson JD** Nicotine-induced long-lasting potentiation in the rat dentate gyrus

318P **Saigusa T, Takada K, Baker S, Kumar R & Stephenson JD** Modulation by oestrogen and progesterone of the response to stimulation of dopamine receptors in the entorhinal cortex on dopamine efflux in the nucleus accumbens of OVX rats

319P **Trezise DJ, Black MD, Grahames CBA & Humphrey PPA** Novel pharmacological characteristics of P_2 purinoceptors mediating increases in firing rate of rat locus coeruleus neurones *in vitro*

320P **Holloway S, Feniuk W, Kidd EJ & Humphrey PPA** Autoradiographical studies with the somatostatin sst_2-receptor-selective novel radioligand [^{125}I]BIM-23027 in rat brain

321P **Hepworth MB & Henderson G** Possible involvement of a G-protein receptor kinase in the rapid desensitization of somatostatin receptors in NG108-15 cells

322P **Chessell IP, Black MD, Feniuk W & Humphrey PPA** Operational characteristics of somatostatin receptors mediating inhibition of spontaneous firing of rat locus coeruleus neurones

323P **Jackson HC, Hutchins LJ, Mazurkiewicz SE, Heal DJ & Buckett WR** Comparison of the effects of sibutramine and other monoamine reuptake inhibitors on food intake in the rat

324P **Liu Y-L, Kashani SMZ, Heal DJ & Stock MJ** Effect of sibutramine on tissue glucose utilisation in the rat

325P **Heal DJ, Prow MR, Hearson M & Buckett WR** Efflux of [^{3}H]dopamine from superfused rat striatal slices: predictive value for detecting stimulant drugs of abuse

326P **Taylor SG & Routledge C** Lack of effect of systemically administered 5-HT_4 agonists on dopamine levels measured from the nucleus accumbens and striatum: an *in vivo* microdialysis study in freely-moving rats

327P **Waterfall AH, Singh G, Fry JR & Marsden CA** Aromatic hydroxylation of phenylalanine to measure oxidative stress in rat brain *in vivo*

328P **Barton CL & Hutson PH** L-701,324, a selective antagonist at the glycine/NMDA site, attenuates stress-induced activation of mesocortical dopamine neurones

329P **Love RM, Hutchins LJ, Jackson HC, Heal DJ & Cheetham SC** Evidence that dizocilpine (MK-801) does not down-regulate either β_1-adrenoceptors or 5-HT_{2A} receptors in rat brain

330P **Boxall SJ, Thompson SWN, Dray A, Dickenson AH & Urban L** Metabotropic glutamate receptor activation contributes to the nociceptive reflex response in the neonatal rat spinal cord *in vitro*

331P **Thompson GA, Jane DE & Watkins JC** Depolarising effects of certain analogues of (*S*)-willardiine upon neonatal rat dorsal roots *in vitro*

332P **Hawkins LM, Jane DE & Roberts PJ** The effect of a 6-aza substitution on the affinity of willardiine analogues for the AMPA receptor

333P **Bedingfield JS, Roberts PJ & Watkins JC** Potentiation of 4-aminopyridine-stimulated [^{3}H]glutamate release from rat cerebrocortical synaptosomes by (RS)-3,5-dihydroxyphenylglycine in the absence of arachidonic acid

334P **Kemp MC, Jane DE, Tse H-W & Roberts PJ** α-methyl-3-phosphonophenylalanine and α-cyclopropyl-4-phosphonophenylglycine are potent antagonists at mGluRs negatively coupled to adenylyl cyclase

335P **Macmillan S, Hope P, Patmore L & Sheridan RD** State-dependent block of neuronal sodium channels by (+)- and (-)-MK-801

336P **Mugnaini M, van Amsterdam FTh, Ratti E, Trist DG & Bowery NG** Regionally different N-methyl-D-aspartate receptor distinguished by *in vitro* binding and quantitative autoradiography of [^{3}H]CGP 39653 in rat brain

337P **Priestley T, Ochu E & Macaulay AJ** NMDA receptor subtypes expressed by rat cultured cortical neurones change with time *in vitro*

338P **Phillips I, Thompson KSJ, Martin KF & Heal DJ** Phenytoin inhibits non-NMDA glutamate receptor agonist-induced depolarisation in rat cortical wedges

339P **Dionisotti S, Zocchi C, Ferrara S & Ongini E** Binding of [^{3}H]SCH 58261, a new A_{2A} receptor antagonist, in rat striatum

340P **MacDonald E** Both isomers of medetomidine inhibit synaptosomal noradrenaline uptake *in vitro* but not at therapeutically relevant concentrations *in vivo*

341P **Lalies MD, Husband C, Dalley JW, Nutt DJ & Hudson AL** An investigation of the effect of imidazoline$_2$-site selective compounds 2BFI and BU224 on [^{3}H]noradrenaline uptake in rat brain slices

342P **Marshall DL, Redfern PH & Wonnacott S** Differences in the nature of nicotine-stimulated dopamine (DA) release from the terminal regions of three ascending dopaminergic pathways

343P **Wyatt I, Gyte A, Widdowson PS & Lock EA** Characterisation of cystine accumulation into rat cerebellar slices and inhibitory characteristics of 2-S-L-cysteinyl propionic acid

DEMONSTRATIONS

344P **Dewhurst DG, Hughes IE & Williams AD** A computer simulation to demonstrate the effects of pharmacological agents or procedures on blood pressure and heart rate of the anaesthetized rat *in vivo*

345P **Dewhurst DG & Dawson O** A computer-based interactive tutorial program to teach the physiology of the circulatory vessels, blood flow and blood pressure to undergraduate students