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*The author who intended to present the work is indicated by an asterisk (\*) on the abstract*

- 189P GILLESPIE, J.S. & HUNTER, J.C. Subcellular localisation of smooth muscle inhibitory factor isolated from the bovine retractor penis muscle
- 190P BYRNE, N.G. & MUIR, T.C. The electrical and mechanical responses of the rabbit and rat anococcygeus muscles to field stimulation and to an inhibitory extract
- 191P AL-SAFI, S.A. & MADDOCKS, J.L. The mechanism of action of azathioprine on the mixed lymphocyte reaction (MLR)
- 192P FARMER, S.G. The effect of betamethasone on altered responsiveness of isolated intestine from rats infected with *Nippostrongylus brasiliensis*
- 193P SMITH, K., SHUSTER, S. & RAWLINS, M.D. Characterisation of the specific glucocorticoid receptor protein in rat skin
- 194P LEWINSOHN, RACHEL Amine oxidases in human amniotic fluid and human lung
- 195P BRITTAİN, R.T., DALY, M.J., HUMPHRAY, J.M. & STABLES, R. AH22216, a new long acting histamine H<sub>2</sub>-receptor antagonist
- 196P LUSH, I.E., SLOAN, T.P. & SMITH, R.L. Genetic variability in the murine vas deferens histamine H<sub>2</sub>-receptor
- 197P HAY, D.W.P. & WADSWORTH, R.M. The effects of barium and methoxamine on calcium uptake in the rat bisected vas deferens
- 198P COX, HELEN M., MUNDAY, K.A., PARSONS, B.J. & POAT, JUDITH A. Sodium dependent binding of (<sup>125</sup>I)-angiotensin II to kidney cortex membranes
- 199P HENDRIE, C.A. & RODGERS, R.J. Naloxone-reversible hyperalgesia in female rats following copulatory experience
- 200P MacKENZIE, J.E. The cardiovascular effects of tolmesoxide in the anaesthetized dog
- 201P GRIFFITHS, N.M., HEWICK, D.S. & STEVENSON, I.H. The effect of active immunisation on digoxin handling and response
- 202P PIPILI, EVA Human platelet membrane potential assessed with a fluorescent probe
- 203P BECKETT, P.J. & FINCH, L. Peripheral  $\alpha_1$  - and  $\alpha_2$ -adrenoceptor effects and central cardiovascular actions of clonidine-like drugs in the rat
- 204P BROWN, N.L., CHEVILLARD, C. & WORCEL, M. *In vitro* actions of hydralazine on vascular and non-vascular smooth muscle: pre and post-junctional effects
- 205P BOWMAN, ANNE & GILLESPIE, J.S. Neurogenic vasodilatation in isolated bovine and canine penile arteries
- 206P HICKS, P.E. Evidence for two different postsynaptic  $\alpha$ -adrenoceptors in rat portal vein *in vitro*
- 207P HAMILTON, C.A., SUMNER, D.J. & REID, J.L. The recovery of  $\alpha$ -adrenoceptor function and number after phenoxybenzamine: an index of receptor turnover
- 208P LLENAS, J., MASSINGHAM, R. & ROBERTS, D.J. Substituted benzamides: selective antagonists of peripheral presynaptic dopamine receptors in the dog
- 209P CARTER, R.J. & SHUSTER, S.  $\alpha_2$ -adrenoceptors mediate dopamine action on the *Anolis melanophore*

- 210P McGRATH, J.C. Is there more than one  $\alpha_1$ -adrenoceptor or is this the wrong question?
- 211P MacDONALD, A. & McGRATH, J.C. Characterization and location of  $\alpha$ -adrenoceptors in the rat vas deferens
- 212P BAKER, SUSAN & MARSHALL, I. The effect of RX781094, a selective  $\alpha_2$ -adrenoceptor antagonist on ( $^3\text{H}$ )-noradrenaline release in the mouse vas deferens
- 213P CHEAH, L.S., GWEE, M.C.E., RODGER, I.W. & SHOON, M.L. Comparison of the effects of ICI 118551, atenolol, and propranolol at  $\beta$ -adrenoceptors in the anaesthetized cat
- 214P BROADLEY, K.J. & WILLIAMS, R.G. Hypothermia induces super-sensitivity at  $\beta_1$ -adrenoceptors but not at  $\beta_2$ -adrenoceptors
- 215P BANERJEE, A.K. & HELE, D. Effects of  $\beta$ -adrenoceptor blocking agents on urine and electrolyte excretion in conscious rats
- 216P CAULFIELD, M.P. & STUBLEY, J.K. Pilocarpine selectively stimulates muscarinic receptors in rat sympathetic ganglia
- 217P CUTLER, M.G., DICK, J.M., McNEIL, E., MOORE, M.R. & RING, D. Some pharmacological effects of delta-aminolaevulinic acid on the isolated small intestine of the rabbit
- 218P HUNT, W.B., O'HAGAN, D.T. & WILKINSON, J. Inhibitory action of 5HT on rebound contractions of rat gastric corpus to non-adrenergic, non-cholinergic nerve stimulation
- 219P MacINTYRE, D.E., POLLOCK, W.K. & SHAW, A.M. Inhibition of 1-O-alkyl-2-acetyl-sn-glycerol-3-phosphorylcholine (platelet-activating factor)-induced human platelet activation
- 220P FRANCIS, H.P. & SMY, J.R. Is the quantity of prostaglandins removed by the lungs dependent upon their level of ventilation?
- 221P COKER, SUSAN J., LEDINGHAM, I. McA, PARRATT, J.R. & ZEITLIN, I.J. Inhibition of thromboxane synthesis with UK-37,248 prevents fibrillation following reperfusion of the ischaemic myocardium
- 222P BRYDON, LESLEY J., JONES, R.L. & WATSON, M.L. The relationship between PGI<sub>2</sub> infusion rate, blood pressure, renal function and urinary 6-keto-PGF<sub>1</sub> $\alpha$  excretion in conscious dogs
- 223P McARTHUR, R.A., NOHRIA, V., TOMBROS, E. & VADDADI, K.S. The effect of evening primrose oil on body weight, food intake and diet selection of cafeteria-fed rats
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- 225P SKETT, P. Growth hormone - the pituitary "feminizing factor" in the rat?
- 226P CHAPMAN, J.B. & CUTLER, M.G. Effects of phenobarbitone on development and social behaviour in the offspring of mice
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- 228P CLARKE, P.B.S. & KUMAR, R. Responding for electrical stimulation of the brain by nicotine-tolerant rats

- 229P DOCHERTY, R.J. & HALLIWELL, J.V. Evidence for excitatory amino acid neurotransmission in the habenula-interpeduncular pathway
- 230P ANIS, N.A., BERRY, S.C., BURTON, N.R. & LODGE, D. Phencyclidine: effects on activation of neurotransmitter receptors on mammalian central neurones
- 231P BENNETT, G.W., DETTMAR, P.W., MARSDEN, C.A., SHARP, T. & TULLOCH, I.F. Analeptic effect of intracerebral injection of TRH and stabilized analogues in the pentobarbitone-anaesthetized rat
- 232P BOURNE, R.C., GAMBLE, S.J. & WADDINGTON, J.L. Influence of 6 month treatments with metoclopramide, piflutixol and haloperidol on behaviour and striatal ( $^3\text{H}$ )-spiperone binding
- 233P HALL, M.D., JENNER, P., MARSDEN, C.D. & RUPNIAK, N.M.J. Short term changes in cerebral dopamine receptor function during continuous haloperidol administration
- 234P DEWAR, D., JENNER, P., & MARSDEN, C.D. The role of the globus pallidus and entopeduncular nucleus in dopamine-mediated circling behaviour
- 235P KAPOOR, V. & ARBUTHNOTT, G.W. Release of endogenous dopamine from striatal slices 'in vitro': comparison of release following high  $\text{K}^+$  and electrical stimulation
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- 237P MILLER, A.A., O'DONNELL, R.A. & WEBSTER, R.A. A comparison of epileptic kindling in rats induced by folic and kainic acids
- 238P DOBLE, A., MARTIN, I.L. & RICHARDS, D.A. Gaba modulation predicts biological activity of ligands for the benzodiazepine receptor
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- 240P BICHARD, A.R. & LITTLE, H.J. Ro 15-1788 antagonizes the protective effects of flurazepam in the high pressure neurological syndrome
- 241P BOLD, JANE M., GARDNER, C.R. & WALKER, R.J. An iontophoretic study of Ro 15-1788, a selective benzodiazepine antagonist, on rat cerebellar neurones
- 242P COX, B. & ENNIS, CHRISTINE Tryptamine-induced inhibition of serotonin release from rat hypothalamic slices is mediated via a cholinergic interneurone
- 243P GROME, J.J. & HARPER, A.M. Complex changes in glucose utilisation in the extrapyramidal areas following quipazine administration

## POSTER COMMUNICATIONS

- 244P ASKITOPOULOU, H., BOWER, S., CHAKRABARTI, M.K., HULL, C.J., KHUDHAIRI, D.M. & WHITWAM, J.G. Acute tolerance of somato-cardiovascular reflexes to fentanyl: effect of nociceptive stimulation
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- 247P ABDULLAH, F.M., FRENCH, A.M. & SCOTT, N.C. Evidence of indirect action of histamine and PEA in guinea-pig and rat atria
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- 249P BECKETT, P.J. & FINCH, L. The central  $\alpha_1$ - and  $\alpha_2$ -adrenoceptor involvement in the cardiovascular action of UK14,304 in the conscious cat
- 250P BLABER, L.C. & BURDEN, D.T. The effects of atropine and  $\beta$ -adrenoceptor antagonists on exercise-induced tachycardia in the cat
- 251P ALABASTER, C.T. & HENDERSON, C.G. The cardiac stimulant effects of isoprenaline in the conscious dog: studies on the role of  $\beta_1$  and  $\beta_2$  adrenoceptors
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- 253P MARTORANA, M.G., RODGER, I.W. & SHAHID, M. Comparison of the vasodilator effects of amrinone and 3-isobutyl-1-methyl-xanthine (IBMX)
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- 255P KAZDA, S. & TOWART, R. The duration of action of calcium antagonists *in vitro*: a comparison of nifedipine and nisoldipine (Bay K 5552)
- 256P DOWNING, O.A., DOXEY, J.C. & WILSON, K.A. Antagonism of  $Ba^{++}$  and  $Ca^{++}$  induced contractions of rat isolated aorta by diazoxide and tolmesoxide
- 257P HUSTED, S. & NEDERGAARD, O.A. Mode of inhibitory action of ATP on vascular sympathetic neuroeffector transmission
- 258P McGRATH, J.C. & STUART-SMITH, K. Human umbilical artery is contracted by oxygen, KCl or 5-HT but not by  $\alpha$ -adrenoceptor agonists
- 259P CHARLTON, K.G., MARTORANA, M.G., RODGER, I.W. & SHAHID, M. The effects of ICI 118551 at  $\beta_1$  and  $\beta_2$ -adrenoceptors of guinea-pig isolated tissues
- 260P WOOD, DIANA Role of  $\beta_1$ -adrenoceptors in the inhibitory action of noradrenaline on coaxially stimulated guinea-pig ileum
- 261P McGRATH, J.C. & McKEAN, C.E. A study with 'selective'  $\alpha_2$ -adrenoceptor antagonists in the rabbit vasculature
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- 263P PIERCE, VANESSA & WATERFALL, J.F. Selectivity of substituted benzoquinolizines for  $\alpha_2$ -adrenoceptors in pithed rats
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- 268P HILL, R.C. Interactions of opiate  $\kappa$ -receptor agonists with opiate antagonists on the rabbit isolated vas deferens
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- 270P BATES, R.F.L., BUCKLEY, G.A., EGLE, R.M., MCARDLE, C.A. & STRETTLE, R.J. Lack of effect of calcitonin on the response of the rat colon to leu- and met- enkephalin, or acetylcholine, *in vitro*
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- 277P COTTERELL, D.J., MUNDAY, K.A. & POAT, JUDITH A. The binding of ( $^3\text{H}$ )-prazosin and ( $^3\text{H}$ )-clonidine to crude basolateral membranes from rat jejunum
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- 279P BRIGHT, J.E., MARRS, T.C. & SWANSTON, D.W. The effect of prior treatment with 4-dimethylaminophenol (DMAP) in experimental hydrogen cyanide poisoning
- 280P GIBSON, G.G., ORTON, T.C., SCHENKMAN, J.B. & TAMBURINI, P.P. Clofibrate induces an unusual form of hepatic cytochrome P-450 responsible for altered drug and fatty acid metabolism
- 281P BISHOP, H. & SCHNEIDER, R.E. Tissue concentrations of propranolol in rats with adjuvant-induced arthritis
- 282P SULEIMAN, K.Y. & GREEN, B. Effect of tamoxifen metabolites on peroxidase activity in the rat uterus
- 283P MAGGS, J.L. & PARK, B.K. The use of acid and hydrolases for analysing biliary conjugates of oestrogens
- 284P HIGGS, G.A. & MUGRIDGE, K.G. The effects on carrageenin-induced inflammation of compounds which interfere with arachidonic acid metabolism

- 285P BALL, H., PARRATT, J.R. & ZEITLIN, I.J. Thromboxane and the pulmonary hypertensive response to endotoxin
- 286P ADELEYE, G.A., FURMAN, B.L. & PARRATT, J.R. Role of kinins in the metabolic effects of endotoxin
- 287P LANGER, S.Z. & MORET, CHANTAL Citalopram antagonizes the effects of LSD on the presynaptic serotonin autoreceptors in slices of the rat hypothalamus
- 288P MARTIN, K.F. & REDFERN, P.H. The effects of clomipramine on the 24 hour variation of 5HT and tryptophan concentrations in the rat brain
- 289P DESARMENIEN, M., FELTZ, P., LOEFFLER, J.P., OCCHIPINTI, G. & SANTANGELO, F. Multiple GABA-receptors on Aδ and C primary afferent neurones in the adult rat
- 290P KELLY, P.A.T. & McCULLOCH, J. GABA-ergic and dopaminergic influences on glucose utilization in the extrapyramidal system
- 291P BRADBURY, AMANDA J., CANNON, J.G., COSTALL, BRENDA, NAYLOR, R.J. & NOHRIA, V. Motor inhibition and facilitation by dopamine agonists from the octahydrobenzo(g)quinoline series
- 292P BALFOUR, D.J.K. & CLASPER, P. Evidence for a presynaptic dopamine receptor in rat hippocampus
- 293P GREEN, A.L. & EL HAIT, M.A.S. Inhibition of dopamine oxidation by (+)-amphetamine in mouse brain *in vivo*
- 294P HOWLETT, D.R., TAYLOR, P. & WALTER, D.S. α-adrenoceptor selectivity studies with RX 781094 using radioligand binding to cerebral membranes
- 295P ABBOTT, W.M., BRILEY, M.S., LANGER, S.Z. & SETTE, M. Sodium shift of the inhibition of (<sup>3</sup>H)-imipramine binding by 5HT and 5HT-uptake blockers but not by tricyclic antidepressants
- 296P COSTALL, BRENDA, DOMENEY, ANNETTE M., & NAYLOR, R.J. Numbers of striatal (<sup>3</sup>H).NPA binding sites change to compensate for consequences of chronic mesolimbic dopamine infusion
- 297P BOKISCH, ANITA J., BOLD, JANE M., PERKINS, M.N., ROBERTS, C. JANE, STONE, T.W. & WALKER, R.J. Actions of ethylenediamine on limulus and helix central neurones and on rat cerebellar and sympathetic ganglion neurones
- 298P MEDGETT, I.C. Effects of clonidine-like imidazolidines on transmission in rat isolated superior cervical ganglion
- 299P LOUIS, W.J. PAPANICOLAOU, J., SUMMERS, R.J. & VAJDA, F.J.E. Relationship between α-adrenoceptor selectivity and anti-convulsant activity after chronic clonidine-like drugs in rats
- 300P COWEN, P.J., GREEN, A.R. & NUTT, D.J. The sedative and anticonvulsant effects of melatonin are not blocked by a selective benzodiazepine antagonist
- 301P HAMMOND, J.R. & CLANACHAN, A.S. Benzodiazepines inhibit the binding of nitrobenzylthionosine, a nucleoside transport inhibitor, to CNS membranes
- 302P JONES, B.J. & OAKLEY, N.R. Inhibition of (<sup>3</sup>H)-flunitrazepam binding in mouse brain *in vivo* by agents selective for the BZ<sub>1</sub> benzodiazepine receptor subtype
- D E M O N S T R A T I O N
- 303P YATES, D.B. Measurement of blood pressure in conscious cats by carotid loop puncture