British Journal of Pharmacology

SHORT COMMUNICATION

327 LEMAIRE, SIMON, MAGNAN, JAQUES & REGOLI, DOMENICO Rat vas deferens: a specific bioassay for endogenous opioid peptides

PAPERS

- 331 CARPENTER, F.G. Potentiation of nerveinduced bladder responses by tetraethylammonium in relation to junctional and extrajunctional muscarinic receptors
- 341 ECCLESTON, D. & NICOLAOU, N. The influence of L-tryptophan and monoamine oxidase inhibitors on catecholamine metabolism in rat brain
- 347 BROWN, K.A. & COLLINS, A.J. In vitro effects of non-steroidal anti-inflammatory drugs on human polymorphonuclear cells and lymphocyte migration
- 353 CATERSON, ROBYN J., DUGGIN, GEOF-FREY G., HORVATH, JOHN, MOHANDAS, JANARDANAN & TILLER, DAVID Aspirin, protein transacetylation and inhibition of prostaglandin synthetase in the kidney
- 359 MAIN, I.H.M. & PEARCE, J.B. Effects of calcium on acid secretion from the rat isolated gastric mucosa during stimulation with histamine, pentagastrin, methacholine and dibutyryl cyclic adenosine 3',5'-monophosphate
- 369 STONE, TREVOR W. & TAYLOR, DAVID A. Antagonism by clonidine of neuronal depressant responses to adenosine, adenosine 5'-monophosphate and adenosine triphosphate
- 375P PROCEEDINGS OF THE BRITISH PHARMA-COLOGICAL SOCIETY, Nottingham, 13-15 September 1978
- 375P DIX, C.J. & JORDAN, V.C. Contrasting subcellular responses to monohydroxytamoxifen and oestradiol benzoate in the immature rat uterus

- 376P JORDAN, V.C. & NAYLOR, K.E. The antitumour activity of tamoxifen and monohydroxytamoxifen: a comparative study in the rat
- 377P BRINDLEY, D.N., PRITCHARD, P.H. & STURTON, R.G. A mechanism by which fenfluramine and benfluorex could inhibit the synthesis of triacyglycerols
- 378P COOPER, S.J. & FRANCIS, R.L. Feeding parameters in the rat: interactions of chlordiazepoxide with (+)-amphetamine or fenfluramine
- 379P MORINAN, A. & LEONARD, B.E. Social isolation in the young rat: neurochemical effects of treatment with a long-acting neuroleptic, α-flupenthixol decanoate
- 380P CROSS, A.J. & WADDINGTON, J.L. (introduced by CROW, R.J.) Drug effects in a GABA-dependent rotational behaviour model and on [3H]-GABA receptor binding: studies with the enantiomers of baclofen HCl
- 381P CROSSMAN, A.R., LEE, L.A. & SLATER, P. Effects of intrapallidal administration of convulsant drugs on head-turning evoked by striatal stimulation in rats
- 382P GILBERT, J.C. & KIRKWOOD, S. Glial cell function and the GABA-feedback hypothesis
- 383P GENT, J.P. & NORMANTON, J.R. Actions of γ-acetylenic GABA on single central neurones in rat
- 384P ENGBERG, I., FLATMAN, J.A. & LAMBERT, J.D.C. The action of N-methyl-D-aspartic and kainic acids on motoneurones with emphasis on conductance changes
- 385P EVANS, R.H. & WATKINS, J.C. Do primary afferent terminals have acidic amino acid receptors?

- 386P BAKHLE, Y.S. Clinically-used dyes are inhibitors of prostaglandin E₂ inactivation in rat isolated lung
- 387P PHAILY, S. & SENIOR, JUDITH Histamine involvement in the regulation of uterine blood flow in the rat
- 387P BROADLEY, K.J. & WILSON, C. The biphasic inotropic response of guinea-pig isolated atria to histamine receptor agonists
- 389P COOPER, MARIE & WYLLIE, J.H. Some properties of 5-hydroxytryptamine receptors in the hindquarters of the rat
- 389P HEAVEY, D.J. & REID, J.L. The effect of SQ 14225 on baroreceptor reflex sensitivity in conscious normotensive rabbits
- 390P DEAN, H.G. & INGHAM, S. The effect of SQ 14225 on fluid intake in DOCA/salt hypertensive rats
- 391P DE JONG, W. & NIJKAMP, F.P. An inhibitory role for the adrenals in the cardiovascular effects of propranolol in the spontaneously hypertensive rat
- 392P DAY, M.D., HUSAIN, A. & JONES, C.W. Changes in plasma renin levels of normotensive and spontaneously hypertensive rats with increasing age
- 393P DAY, M.D. & SEMPIK, J. Effect of centrally administered noradrenaline and isoprenaline on splanchnic nerve activity in anaesthetised and conscious cats
- 394P SCOTT, EVELYN M. (introduced by CONWAY, J.) The effect of atenolol on the discharge of sympathetic efferent nerves in the anaesthetised cat
- 395P CLIPSHAM, PATRICIA J., HAMILTON, T. C., HUNT, A.A.E. & POYSER, R.H. Cyclic nucleotides and central cardiovascular control in the cat
- 396P CHANCE, ELIZABETH & TOMLINSON, D.R. Response of the cardiovascular system to lower body negative pressure (LBNP) in rabbits treated with 6-hydroxydopamine
- 397P YATES, D.B. (introduced by BIRMINGHAM, A.T.) Changes in blood pressure, cardiac output and rate, and the response to lower body negative pressure (LBNP) in trypanosome-infected rabbits
- 398P FRENCH, A.M. & SCOTT, N.C. The antiarrhythmic effects of a benzotriazinium salt in mice and guinea-pigs
- 399P BRECKENRIDGE, A.M., LECK, JACQUELINE B., PARK, B.K., SERLIN, M.J. & WILSON, A. Mechanisms of action of the anticoagulants warfarin, 2-chloro-3-phytylnaphthoquinone (Cl-K), acenocoumarol, brodifacoum and difenacoum in the rabbit

- 400P OWEN, BRENDA E. & TABERNER, P.V. Studies on the interaction between chloral hydrate and ethanol
- 401P BACK, D.J., BRECKENRIDGE, A.M., CROSS, K.J., ORME, M.L.'E., PERCIVAL, A. & ROWE, P.H. The reduction of the enterohepatic circulation of norethisterone by antibiotics in the rat
- 401P LIVINGSTON, A. & WATERMAN, A.E. The urinary excretion of ketamine and its metabolites in the rat
- 401P BEVAN, D.R., CALDWELL, J., D'SOUZA, J. & SMITH, R.L. Influence of impaired renal function on the disposition of [14C]-fazadinium in the anaesthetized greyhound
- 404P KNIGHT, R.I. & SMITH, I.R. (introduced by BRIMBLECOMBE, R.W.) Metabolism in vivo and in vitro of radiolabelled histamine and telemethylhistamine in rat brain
- 405P CRAMPTON, E.L., DICKINSON, W., HARAN, G., MARCHANT, B. RISDALL, P.C. (introduced by BERRY, P.A.) The metabolism of dothiepin hydrochloride in vivo and in vitro
- 406P GOFF, D., MILLER, A.A. & WEBSTER, R.A. Anticonvulsant drugs and folic acid on the development of epileptic kindling in rats
- 407P COOKE, S. (introduced by CROSSLANDS, J.) Effect of short- and long-term administration of some anticonvulsant drugs on the folate content of rat brain
- 407P ELHWUEGI, A. (introduced by CROSSLAND, J.) Antiepileptic drugs and monoamine metabolism in the brain
- 408P GILBERT, J.C., LAMBIE, A.T. & OSORE, H. Effects of aldosterone and spironolactone on renal ATPase activities
- 409P KALARIA, R.N., PRINCE, A.K. & WONG, P.T.-H. (introduced by BROWNLEE, G.) Choline uptake and the regulation of choline acetyltransferase in relation to neuronal activity
- 410P BAXTER, M.G., MILLER, A.A. & WHEATLEY, P.L. Dexamphetamine-induced EEG arousal in rats: a possible new test model for potential antischizophrenic agents
- 411P HOWLETT, D.R. & NAHORSKI, S.R. Effect of acute and chronic amphetamine administration on β -adrenoceptors and dopamine receptors in rat corpus striatum and limbic forebrain
- 413P BLACKBURN, K.J., BREMNER, R.M., GREEN-GRASS, P.M. & MORVILLE, M. (introduced by DAVEY, M.J.) Selective affinities of bromocriptine and lergotrile for rat limbic dopamine binding sites

- 414P CLOW, A., JENNER, P. & MARSDEN, C.D. Supersensitivity of cerebral dopamine receptors during on-going chronic (six months) administration of trifluoperazine to rats
- 415P GOODEN, B.A. (introduced by BIRMINGHAM, A.T.) A comparison in vitro of the responses of the mesenteric arterial vasculature from duckling and chicken to nervous stimulation and noradrenaline
- 416P GRIFFITH, OLWEN, R., MARSHALL, I. & NASMYTH, P.A. Blockade of pre-synaptic α-adrenoceptors by metiamide
- 417P MARSHALL, I., NASMYTH, P.A. & SHEPPER-SON, N.B. The effect of exogenous noradrenaline on the overflow of [³H]-noradrenaline from the mouse vas deferens
- 418P DEHPOUR, A.R., HOSSEINZADEH, K. & KHOYI, M.A. (introduced by MICHAL, F.) Effect of methoxamine on the outflow of [³H]-nor-adrenaline from rat vas deferens
- 418P JARROTT, B. & SUMMERS, R.J. Localisation of [³H]-clonidine binding in guinea-pig kidney
- 419P DOCHERTY, J.R. & McGRATH, J.C. Time course of the pre- and post-junctional effects of clonidine in the pithed rat
- 420P BROADLEY, K.J. & NICHOLSON, C.D. Estimation of dissociation constants and relative efficacies of isoprenaline, orciprenaline and terbutaline in guinea-pig isolated atria by use of functional antagonism
- 421P ANNING, ELIZABETH N., O'DONNELL, STELLA R. & WANSTALL, JANET C. A study on potassium-depolarized tracheal chain preparations from guinea-pigs
- 422P CLAY, T.P. & HUGHES, J.M.B. (introduced by REID, J.L.) Evidence for a vagosympathetic bronchodilator reflex initiated by prostaglandin $F_{2\alpha}$
- 423P MAIN, I.H.M. & PEARCE, J.B. Differential inhibition by PGE₁, PGE₂ and endoperoxide analogue U46619 of secretion from the rat isolated gastric mucosa stimulated by histamine, pentagastrin and methacholine
- 424P BUNCE, K.T., HONEY, A.C. & PARSONS, M.E. Calcium dependence of basal and secretagogue-induced acid secretion in the isolated rat stomach
- 425P CANFIELD, S.P., CURWAIN, B.P. & PRICE, CAROLYN β -Adrenoceptor agonist stimulation of acid secretion in rat isolated stomach
- 426P HENMAN, F.D. (introduced by ADAMS, S.S.)

 Mucosal cell turnover in the upper gut of the
 mouse and its modification by carbenoxolone
- 427P KABLER, TRICIA A., KNAPP, M.S. & POWNALL, R. (introduced by BENNETT, T.) The

- effects of corticosteroids given at various clock times on cell-mediated immunity to oxazolone
- 428P KERWIN, R. & PYCOCK, C. Specific stimulation of [3H]-dopamine release from dendrites of rat substantia nigra by glycine
- 429P ANDERSON, SUSAN, D., ROBERTS, P.J. Amino acid-induced stimulation of [³H]-dopamine release from rat striatum *in vitro*
- 430P CARTER, C.J. & PYCOCK, C.J. Lesions of the frontal cortex of the rat: changes in neurotransmitter systems in sub-cortical regions
- 431P MARSDEN, C.A. The involvement of 5-hydroxytryptamine and dopamine in the behavioural effects of α-methyltryptamine
- 432P JENNER, P., MARSDEN, C.D., PRATT, J. & REYNOLDS, E.H. Altered serotoninergic activity in mouse brain induced by clonazepam
- 433P ANDREWS, C.D., DAVIS, E., FREEMAN, H.S., McDERMED, J.D., POAT, JUDITH A. & WOODRUFF, G.N. Effects of the (+)- and (-)-enantiomers of 2-amino-6,7-dihydroxy-1,2,3,4-tetra-hydronaphthalene on dopamine receptors and on dopamine uptake
- 434P ANDREWS, C.D. & WOODRUFF, G.N. Effect of the (+)- and (-)-enantiomers of sulpiride on ADTN-induced hyperactivity in the rat
- 435P BLACKWELL, G.J., FLOWER, R.J., RUSSELL-SMITH, N., SALMON, J.A., THOROGOOD, P.B. & VANE, J.R. 1-n-Butylimidazole: a potent and selective inhibitor of 'Thromboxane Synthetase'
- 436P BLACKWELL, G.J., FLOWER, R.J., RUSSELL-SMITH, N., SALMON, J.A., THOROGOOD, P.B. & VANE, J.R. Prostacyclin is produced in whole blood
- 437P DAVIDSON, E.M., FORD-HUTCHINSON, A.W., SMITH, M.J.H. & WALKER, J.R. Prostacyclin (PGI₂): a potential mediator of inflammation
- 438P WHITTLE, B.J.R. Inhibition of prostacyclin (PGI₂) formation in the rat small-intestine and gastric mucosa by the ulcerogen, indomethacin
- 439P FRENS, J., VAN MIERT, A.S.J.P.A.M. & VAN DUIN, C.TH.M. Prostaglandins are not essential in experimental fever of rats
- 439P COOLING, M.J. & SIM, M.F. Effects of prostaglandin synthetase inhibition on natriuresis induced by diuretics and sodium loading in the rat.
- 441P ROCKER, ANN D., WALKER, R. & WILSON, K.A. Prostaglandins and the contractile action of bradykinin on the longitudinal muscle of rat isolated ileum

- 442P KIRBY, MARILYN J., PLEECE, S.A. & RED-FERN, P.H. The effect of fenfluramine on obesity in rats—a new method for the screening on potential antiobesity agents
- 443P CHANCE, ELIZABETH & TOMLINSON, D.R.

 The effect of acute adrenergic neurone blockade
 on the response of the cardiovascular system of
 the rabbit to lower body negative pressure (LBNP)
- 444P DAVIS, S.S., TOMLINSON, E. & WILSON, C.G. The effect of ion-association on the transcorneal transport of drugs
- 444P PICKFORD L. MARY Effect of adrenoceptor and ganglion blocking agents on the *in situ* uterus of the anaesthetised rat
- 445P BAIRD, A.W. & MAIN, I.H.M. Characterisation of acid secretory responses of the rat isolated gastric mucosa to electrical field stimulation
- 446P BUCKLEY, G.A., GODDEN, D.H. & PARRISH, S.K. Motor output to flight muscles and inhibition of acetylcholinesterase after injection of dimethoate into locusts
- 447P KENAWY, SANAA A., LEWIS, G.P. & WIL-LIAMS, T.J. The effects of α - and β -adrenoceptor agonists on inflammatory exudation in rabbit and guinea-pig skin
- 448P SKELDON, N. & STEELE, L. The effects of different particulate stimuli on the extracellular release of prostaglandins and lysosomal enzymes from mouse peritoneal macrophages in vitro
- 449P BARNETT, D.B., BATTA, MOUSHIRA I. & NAHORSKI, S.R. Development of a radioreceptor assay for β -adrenoceptor antagonists in plasma
- 450P STRANGE, P.G. (introduced by BENNETT, T.)
 Effect of a phosphodiesterase inhibitor on cyclic
 GMP changes induced by muscarinic agonists in
 mouse neuroblastoma cells
- 451P ENGBERG, I., FLATMAN, J.A. & LAMBERT, J.D.C. Extracellular and intracellular recording during micro-iontophoresis: an appraisal
- 452P DEHPOUR, A.R., KHOYI, M.A., KOUTCHEKI, H. & ZARRINDAST, M.R. Pharmacological study of the anococcygeus muscle of the dog
- 453P GRAY, J.M.B., HENRY, D.A., LAWSON, D.H. & TILSTONE, W.J. (introduced by LONGMAN, H.J.S.) Continuous infusion of frusemide in refractory oedema
- 453P KNAPP, M.S., KOWANKO, INGEBORG, MAHONEY, P.G.C., POWNALL, R. & SWANNELL, A.J. (introduced by BIRMINGHAM, A.T.) A domiciliary study of urinary circadian rhythms in rheumatoid patients with particular reference to the effects of the time of administration of corticosteroid drugs

- 454P PATRICK, J.M. & SEMPIK, ANNE K. (introduced by BENNETT, T.) The effect of diazepam on the threshold of the ventilatory response to CO₂
- 455P HUSAIN, A. & JOHNSON, I.R. (introduced by BIRMINGHAM, A.T.) A simple microassay for human tissue renin
- 456P JEQUIER, ANNE M. & POGMORE, J.R. (introduced by BIRMINGHAM, A.T.) Plasma sex hormone binding globulin and oestrogen therapy
- 457P COVE-SMITH, J.R., KNAPP, MARTIN S. & POWNALL, R. (introduced by BIRMINGHAM, A.T.) The time of steroid therapy
- 458P ADEOSHUN, I.O., HEALY, T.E.J. & PATRICK, J.M. (introduced by BIRMINGHAM, A.T.) Ventilatory patterns in surgical patients premedicated with lorazepam or diazepam
- 460P KNIGHT, R.I. & SMITH, I.R. (introduced by BRIMBLECOMBE, R.W.) Separation and quantification of metabolites of radiolabelled histamine in brain
- 461P COSTALL, B., HUI, S.-C.G. & NAYLOR, R.J. Modulation of amphetamine hyperactivity by DPI injected into rat nucleus accumbens
- 462P BROWN, D.H., BRUIN, J., LEWIS, A.J., McNEILLIE, A. & SMITH, W.E. The effect of gold salts in kaolin-induced paw oedema and adjuvant-induced arthritis in the rat
- 463P SEMPIK, J. & WILSON, J. Cerebral perfusion in the dog
- 464P FADLOUN, Z. & LEACH, G.D.H. Measurements of noradrenaline overflow and dopamine-β-hydroxylase activity in superfused preparations
- 465P AL-DÈEN, I.H.S. & SHAW, G.G. Assay of picomole quantities of polyamines by high pressure ion-exchange chromatography
- 465P BERRIDGE, T.L. A method for injecting drugs into the nucleus tractus solitarii of conscious rats
- 466P SHARPE, G.F., SHORT, A.H. & TOMLINSON, D.R. A novel modification of the isolated perfused heart preparation
- 467P JACKSON, A.R. & TOMLINSON, D.R. An analysis of the response of the perfused vas deferens of the rat to field stimulation
- 468P HARDY, J.G., LEESON, MICHELE & WIL-SON, C.G. (introduced by BENNETT, T.) The use of gamma cameras to measure the disposition and rate of iodide in the rabbit
- 469P IBU, J.O., MACDONALD, I.A. & SHORT, A.H. (introduced by BENNETT, T.) A technique for measuring first pass extraction in the rat perfused liver

- 470P ADAMS, R.N., CONTI, J., MARSDEN, C.A. & STROPE, ELAINE The measurement of dopamine and 5-hydroxytryptamine release in CNS of freely moving unanaesthetised rats
- 471P KING, B. & MARSDEN, C.A. Monitoring motor activity using doppler shift radar
- 472P BALLS, M. & HOLMES, C.H. (introduced by BENNETT, T.A.) An indirect effect of isoprenaline on α-amylase release by amphibian pancreas organ cultures
- 473P PARKINSON, R. (introduced by SIM, M.F.) Carotid artery loop puncture; a convenient technique for direct blood pressure measurement in the conscious dog
- 474P PARRY, M. & WOOD, R.G. (introduced by SIM, M.F.) A digital plateau detecting rate meter
- 475P EVANS, D.F., FOSTER, G.E., HARDCASTLE, J.D., JOHNSON, F. & WRIGHT, J. (introduced

- by BENNETT, T.) The effect of glucagon on the canine duodenum and small intestine
- 475P BUCKLEY, G.A., DAVIES, L.G. & SPINDLEY, D.T. A bee counter for monitoring bee activity and bee behaviour
- 476P KNAPP, M.S. & WOOLFSON, A.M.J. (introduced by BENNETT, T.) The effect of drug therapy on circadian variations in blood pressure, and the influence of the timing of therapy
- 476P HAGGARD, M.P. (introduced by BIRMING-HAM, A.T.) Menstrual fluctuations in hearing—suggestions for hormone or drug monitoring methods in man
- 477P PROCEEDINGS OF THE BRITISH PHARMA-COLOGICAL SOCIETY, Guildford, 29-30 March 1978
- 477P ODUMOSU, A. & WILSON, C.W.M. Vitamin C and the cholesterol-lowering effect of lofibrate