

# British Journal of Pharmacology

## SHORT COMMUNICATIONS

- 323 KERWIN, R.W. & PYCOCK, C.J. Thyrotrophin releasing hormone stimulates release of [ $^3$ H]-dopamine from slices of rat nucleus accumbens *in vitro*
- 327 BOWMAN, ANN, GILLESPIE, J.S. & MARTIN, W. The inhibitory material in extracts from the bovine retractor penis muscle is not an adenine nucleotide

## PAPERS

- 329 FOLDES, A. & HALL, R.C. The effects of histamine on responses of the rabbit ear artery to electrical stimulation and to exogenous noradrenaline
- 337 BELL, CHRISTOPHER & LANG, WILLIAM J. Evidence for dopaminergic vasodilator innervation of the canine paw pad
- 345 CHOW, EDWIN, KIM, RYUNG-SOON, SONG, LABELLA, FRANK S. & QUEEN, GARY. Ouabain receptor binding of hydroxyprogesterone derivatives
- 353 FARJO, I.B. & McQUEEN, JUDITH K. Dopamine agonists and cobalt-induced epilepsy in the rat
- 361 GRANGER, D.N., RICHARDSON, P.D.I. & TAYLOR, A.E. The effects of isoprenaline and bradykinin on capillary filtration in the cat small intestine
- 367 IMMS, F.J., NEAME, R.L.B. & POWIS, D.A. The subdivision of  $\beta$ -adrenoceptors in the cardiovascular system of the rat
- 371 BIRDSALL, N.J.M., BURGEN, A.S.V., HULME, E.C. & WELLS, J.W. The effects of ions on the binding of agonists and antagonists to muscarinic receptors
- 379 FAIRBAIRN, J.W. & PICKENS, JOAN T. The oral activity of  $\Delta^9$ -tetrahydrocannabinol and its dependence on prostaglandin  $E_2$
- 387 KIRKSEY, D.F. & SLOTKIN, T.A. Concomitant development of [ $^3$ H]-dopamine and [ $^3$ H]-5-hydroxytryptamine uptake systems in rat brain regions
- 393 LEWIS, G.P., PIPER, PRISCILLA J. & VIGO, CARMEN. The effects of glucocorticoids on the distribution and mobilisation of arachidonic acid in fat cell ghosts
- 401 CHAN, CHI-CHUNG & KALSNER, STANLEY. An examination of the negative feedback function of presynaptic adrenoceptors in a vascular tissue
- 409P PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY. University of Dublin, Trinity College, 17th-20th July, 1979
- 409P TOWART, R. & KAZDA, S. The cellular mechanism of action of nimodipine (BAY e 9736), a new calcium antagonist
- 410P TAMARGO, J. Electrophysiological effects of bunaphthine on guinea pig myocardium
- 411P MURNAGHAN, M.F. Sensitising effect of sodium palmitate to an induced arrhythmia in the isolated perfused hypoxic rabbit heart
- 412P BARLOW, J.J., MAIN, B.G., MOORS, J.A., NUTTALL, A. & SNOW, H.M. (introduced by CONWAY, J.) The cardiovascular activity of ICI 118,587 a novel  $\beta$ -adrenoceptor partial agonist
- 412P APPERLEY, G.H., COLEMAN, R.A., KENNEDY, I. & LEVY, G.P. The cat isolated trachea, a useful preparation for the study of the smooth muscle relaxant action of prostaglandins
- 414P DALY, M.J., HUMPHRAY, J.M. & STABLES, R. Antagonism of vasodepressor and gastric secretory responses to histamine by ranitidine and cimetidine in the anaesthetised dog
- 415P NAHORSKI, S.R. & SRIWATANAKUL, K. Analysis of the activity and distribution of  $\beta$ -adrenoceptor antagonists in the rat using an *ex vivo* receptor binding assay
- 416P MILLSON, D.S. & REES SMITH, B. (introduced by RAWLINS, M.D.) The effects of temperature and ionic environment on antagonist binding to cardiac  $\beta$ -adrenoceptors
- 417P DUBOCOVICH, MARGARITA L., LANGER, S.Z. & PELAYO, F. Cocaine and desipramine antagonize the clonidine-induced inhibition of [ $^3$ H]-noradrenaline release from the rat cerebral cortex
- 418P CHEVILLARD, C., DA PONTE, FRANCESCA, MATHIEU, MARIE-NOËLLE, SAÏAG, B. & WORCEL, M. Inhibitory presynaptic effects of hydralazine on noradrenergic nerve terminals of the rat tail artery
- 419P ABBS, E.T. & DUTTA, C.F. Oxymetazoline-sensitive and -insensitive presynaptic  $\alpha$ -adrenoreceptors in isolated rat atria

- 421P BROWN, R.A., BROWN, R.C., O'CONNOR, S.E. & SOLCA, ANNE M. Pre- and post-synaptic activities of some dopamine analogues and related compounds
- 421P DOCHERTY, J.R., MACDONALD, A. & McGRATH, J.C. Further sub-classification of  $\alpha$ -adrenoceptors in the cardiovascular system, vas deferens and anococcygeus of the rat
- 422P COLLIS, M.G. & SHEPHERD, J.T. The effect of amitriptyline on presynaptic receptors in the dog saphenous vein
- 423P FENIUK, W., HUMPHREY, P.P.A. & WATTS, A.D. Preliminary characterisation of the presynaptic receptor for 5-hydroxytryptamine in dog isolated saphenous vein
- 424P CERRITO, F. & RAITERI, M. Evidence for an auto-receptor-mediated presynaptic control of serotonin release in central nerve endings
- 425P AHERN, C.P., McLOUGHLIN, J.V., WHEATLEY, A.M. & WILSON, P. (introduced by WILSON, C.W.M.) Althesin as an anaesthetic in experimental animals susceptible to halothane-initiated malignant hyperthermia
- 426P LAWRENCE, D. & LIVINGSTON, A. The effect of physostigmine and neostigmine on ketamine anaesthesia and analgesia
- 427P HOWE, S.J., MCCARTHY, P.S. & METCALF, G. Assessment of physical dependence in rats after continuous intraperitoneal infusion of morphine or ketocyclazocine
- 427P METCALF, G., REES, J.M.H. & WARD, SUSAN J. Dependence, tolerance and cross-tolerance induced by morphine and ethylketocyclazocine
- 428P SHAW, J.S. (introduced by TURNBULL, M.J.) Characterization of opiate receptors in the isolated rat rectum
- 429P PINNOCK, R.D., TURNBULL, M.J. & WOODRUFF, G.N. Effects of peptides on neurones in the substantia nigra and nucleus accumbens
- 430P FREEDMAN, S.B., WAIT, CHRISTINE P. & WOODRUFF, G.N. Effects of dopamine receptor agonists and antagonists in the rat nucleus accumbens
- 431P BLACKBURN, T.P., FOSTER, G.A., HEAPY, C.G. & KEMP, J.D. (introduced by GREENWOOD, D.T.) Differential rotational behaviour after unilateral 5,7-dihydroxytryptamine induced lesions of the dorsal raphe nucleus
- 432P JENNER, P., LEIGH, N., MARSDEN, C.D. & REAVILL, C. Dopamine mediated circling behaviour is modulated by lesions of the ventromedial nucleus of the thalamus
- 433P CLOW, A., JENNER, P., MARSDEN, C.D., REAVILL, C. & THEODOROU, A. Stereoselective blockade of cerebral dopamine receptors by sulpiride and sultopride
- 434P DOGGETT, N.S. & MOORE, N.A. Antagonism of apomorphine and lergotril hypothermia
- 434P BRILEY, M., LANGER, S.Z. & RAISMAN, RITA. Specific [ $^3$ H]-imipramine binding in rat brain
- 435P SUGRUE, M.F. Effects of chronic antidepressant administration on the synthesis of monoamines in rat brain
- 436P BLUNDELL, J.E. & McARTHUR, R.A. Investigation of food consumption using a dietary self-selection procedure: effects of pharmacological manipulation and feeding schedules
- 438P MARSDEN, C.A. Evidence for the release of hippocampal 5-hydroxytryptamine by  $\alpha$ -methyltryptamine
- 439P LEONARD, B.E. & MORINAN, A. Neurochemical effects of fluphenazine decanoate in socially-reared and isolated young rats
- 440P JENNER, P., MARSDEN, C.D., PRATT, J. & REYNOLDS, E.H. Modulation of picrotoxin-induced fore-paw myoclonus in the rat by benzodiazepines
- 441P TABERNER, P.V. Effects of sodium valproate and ethanalamine-*O*-sulphate on GABA metabolism *in vivo*
- 441P LAHAN, G.D., OSUIDE, G. & STANSFIELD, F. Anticonvulsant properties of ethyl-N-phthalimidoxycetate
- 442P LLOYD, K.G., WILLIGENS, M.T. & WORMS, P. Biphasic effect of direct GABA mimetic drugs on haloperidol-induced catalepsy
- 443P SCHOLFIELD, C.N. Leptazol antagonises the postsynaptic actions of  $\gamma$ -aminobutyric acid
- 444P BOWERY, N.G., DOBLE, A., HILL, D.R., HUDSON, A.L., SHAW, J.S. & TURNBULL, M.J. Baclofen: a selective agonist for a novel type of GABA receptor
- 445P BOWERY, N.G., HILL, D.R. & MÖHLER, H. Sodium independent GABA receptor binding in peripheral nervous tissue
- 446P AL-HABOUBI, H.A. & ZEITLIN, I.J. The actions of cimetidine, mepyramine, indomethacin and aprotinin (Trasylol) on the inflammatory response in adjuvant rats
- 447P BLACKHAM, A. & WOODS, AUDREY M. The effect of some anti-rheumatic agents on tuberculin pleurisy in the guinea-pig
- 448P JACKSON, J. (introduced by WATON, N.G.) Modulation of spontaneous and acetylcholine-induced contractions of rat ileum by betamethasone
- 449P DELLA-CORTE, LAURA, GREMIGNI, D. MEGAZZINI, IRENE, MOBILIO, RENATA & SCARAGLI, G.P. Chlorimipramine-induced phospholipidosis: biochemical and pharmacokinetic observations
- 450P BILLINGHAM, M.E.J. & TUCKER, MARY J. Correlation between the rise in acute phase proteins and histological evidence of ulceration in the rat following indomethacin treatment
- 451P IOANNIDES, C., OKINE, L. & PARKE, D.V. Effects of  $\beta$ -adrenoceptor antagonists on the hepatic mixed-function oxygenases in the rat
- 452P BROWN, M.J., DAVIES, D.S. & DOLLERY, C.T. Quantitative analysis of noradrenaline clearance
- 453P RUMSBY, P.C. & SHEPHERD, D.M. Effect of penicillamine, hydrallazine and phenelzine on the function of pyridoxal-5-phosphate

- 454P GARCHA, G., IMRIE, P.R., MARLEY, E. & THOMAS, D.V. Effects of monoamine oxidase inhibitor (MAOI) pretreatment on the fate of intraduodenally instilled [ $^{14}\text{C}$ ]-tyramine
- 455P GILBERT, J.C. & WYLLIE, M.G. Inhibition of synaptosome ATPase by  $\text{PGE}_1$  may be dependent on a soluble factor
- 456P ODUMOSU, A. & WILSON, C.W.M. Hypcholesterolemic effects of vitamin C, clofibrate and diosgenin in male guinea-pigs
- 457P LEWIS, A. & WILSON, C.W.M. The effect of vitamin C deficiency and supplementation on the weight pattern and skin potential of the guinea-pig
- 458P PUGH, D.M. & SUMANO, H.S. The effects of oestradiol- $17\beta$  and tamoxifen on the development of mouse embryos cultured over collagen
- 459P HARDY, J.G., KELLAWAY, I.W., ROGERS, J. & WILSON, C.G. Distribution and fate in the rabbit of liposomes containing [ $^{131}\text{I}$ ]-sodium iodide
- 460P JUNG, M.J., PALFREYMAN, M.G., RIBEREAU-GAYON, G., WAGNER, J. & ZRAJKA, MONIQUE. Monamine-depleting properties of a new and very potent enzyme-activated irreversible inhibitor of aromatic amino acid decarboxylase:  $\alpha$ -monofluoromethyl-dopa
- 461P FOZARD, J.R., PALFREYMAN, M.G., SPEDDING, M., WAGNER, J. & WOODWARD, J.K. Inhibition of peripheral sympathetic function by  $\alpha$ -monofluoromethyl-dopa, an irreversible inhibitor of aromatic amino acid decarboxylase
- 462P BYRNE, A.J., HEALY, T.E.J. & TOMLINSON, D.R. The effects of ketamine on noradrenergic transmission and the response to noradrenaline in rat smooth muscle
- 463P SMITH, J.A. & SPRIGGS, T.L.B. An effect of neostigmine on the response of the rat anococcygeus muscle to field stimulation
- 464P SOKUNBI, YETUNDE O.O. (introduced by OKPAKO, D.T.) Does a prostaglandin modulate cholinergic transmission in the guinea-pig ileum?
- 464P KIRKPATRICK, C.T. & ROONEY, P.J. (introduced by SCHOLFIELD, C.N.) The contracture produced in tracheal smooth muscle by anticholinesterases
- 465P JAMISON, J.P. & MCKINLEY, R.K. (introduced by RODDIE, I.C.) Evidence for histamine  $\text{H}_2$  receptor mediated relaxation of rabbit trachea
- 466P DIGGES, K.G. & BOYLE, F.C. The effects of catecholamines on the rat isolated uterus
- 467P RODGER, I.W. Effects of  $\text{Ca}^{2+}$  withdrawal and verapamil on excitation-contraction coupling in rabbit pulmonary vascular smooth muscle
- 469P BAKER, G.B., CALVERLEY, D.G., DEWHURST, W.G. & MARTIN, I.L. A sensitive gas chromatographic technique for quantification of urinary tryptamine
- 471P MULLEN, P.W. Pharmacokinetics of phenytoin and liver cytochrome P-450 levels in mice after single doses of *Corynebacterium parvum*
- 472P BRADSHAW, D., GIROUD, J.P. & ROCH-ARVEILLER, M. The effect of dibutyryl cyclic AMP on the chemotaxis and chemokinesis of rat polymorphonuclear leucocytes (PMN)
- 473P LIVINGSTON, A. & VERGARA, G.A. Effect of halothane on microtubule numbers in unmyelinated axons from rat sciatic nerve
- 474P CROOKS, R. JANE & MARTIN, G.R. An isolated vascular tissue preparation showing a specific relaxant effect of dopamine
- 474P BALFOUR, D., HEWICK, D. & MURRAY, N. Comparison of plasma, erythrocyte and brain lithium concentrations in the guinea-pig and rat
- 475P COSTALL, B., HUI, S.-C.G. & NAYLOR, R.J. A demonstration of the ability of apomorphine to act on dopamine receptors on nerve terminals in the nucleus accumbens to reduce locomotor hyperactivity
- 476P PERKINS, M.N. & STONE, T.W. Adenosine may mediate neuronal depressant effects of morphine
- 477P ALDRIDGE, S., GLITHERO, P., HULL, SIAN, JARMANN, CHRISTINE, JOHNSON, G. & MARSDEN, C.A. Behavioural scoring—how good is the agreement between scorers?
- 478P BEVAN, P., BRADSHAW, C.M., PUN, R.Y.K., SLATER, N.T. & SZABADI, E. The relative contribution of iontophoresis and electro-osmosis to the electrophoretic release of noradrenaline from multibarrelled micropipettes
- 479P DICKINSON, K. & NAHORSKI, S.R. Homogeneity of  $\beta$ -adrenoceptors on rat erythrocytes
- 480P LOVETT, G.S., SWEETMAN, A.J. & WEETMAN, D.F. A comparison of the effects of 2-2'-pyridylisatogen, 2-phenylisatogen and papaverine on calcium-stimulated respiration in mitochondria isolated from guinea-pig liver
- 481P CLARK, AMANDA L., HOBBIER, F. & TERRAR, D.A. The effect of dithiothreitol on anticholinesterase induced antidromic firing and twitch potentiation
- 482P HARROWING, P.D. & WILLIAMS, K.I. Homogenates of rat placenta contain a factor(s) which inhibits uterine arachidonic acid metabolism
- 483P BATES, R.F.L., BUCKLEY, G.A. & STRETTLE, R.J. The action of salmon calcitonin on indomethacin-induced gastric ulceration in the rat
- 484P ELLIOTT, P.N.C. The effect of combination of aspirin and sodium salicylate on the rat stomach
- 485P BOUDOT, J.P. & CAVERO, I. Effects of diltiazem and verapamil on the mechanical performance of the rabbit myocardium perfused with an oxygenated and an hypoxic medium
- 486P BORKHATARIA, B., HEMSWORTH, B.A., SHREEVE, S.M. & VEITCH, G.B.A. The pharmacological activity of some choline analogues and their acetylated derivatives
- 487P DREW, G.M. Is WB 4093 a selective presynaptic  $\alpha_2$ -adrenoceptor antagonist?
- 488P MACLAGAN, JENNIFER & NEY, URSULA M. Inhibition of propranolol-induced bronchospasm by sodium cromoglycate

- 488P FURMAN, B.L. & WILSON, G. ANN. Does the hypoglycaemic effect of 5-hydroxytryptophan involve insulin?
- 489P STEINER, J.A. & GRAHAME-SMITH, D.G. Pharmacological control of corticosterone secretion in the intact rat
- 490P GHAFFAR, A.A.R.A. & JACKSON, J. (introduced by FURMAN, B.L.) The effect of cortisol on the response of the depolarized, calcium-free mouse uterus to calcium
- 491P ATKINSON, P. & JACKSON, J. (introduced by BOWMAN, W.C.) Influence of betamethasone on concentrations of digoxin in rat serum, liver and heart
- 491P DUNNE, A. (introduced by CANNON, P.J.) Comparison of individual and cumulative dose-response curves
- 492P CALLANAN, K. & KEENAN, A.K. Prejunctional clonidine-adenosine interactions in the rat vas deferens
- 493P DEVANE, J. & RYAN, M.P. Urinary magnesium excretion during amiloride administration in saline-loaded rats
- 494P COUNIHAN, T.B., DUNNE, A., RYAN, M.F. & RYAN, M.P. Time-related changes in urinary aldosterone and electrolyte excretion during amiloride administration to congestive heart failure patients
- 494P MILNE, A.A., SUMANO, H. & WILSON, C.W.M. Hay Fever: Diagnosis and treatment with vitamin C
- 495P AKSOY, M., BASU, T.K. & DICKERSON, J.W.T. (introduced by WILSON, C.W.M.) 5-Fluorouracil-induced thiamin deficiency—an experimental study
- 495P CHAMBERS, P.L. & ROWAN, M.J. Demonstration of central synaptic effects of chemicals in the American cockroach
- 495P FIDANZA, A., MARTINOLI, L. & MASTROIA-COVO, P. (introduced by WILSON, C.W.M.) Vitamin C in the plasma and in the leukocytes of Italians in different periods of the year
- 497P KIRKPATRICK, C.T. (introduced by SCHOLFIELD, C.N.) A microcomputer-based signal acquisition system suitable for use in the pharmacological and physiological laboratory
- 497P HEMSWORTH, B.A. & STREET, J.A. The binding of [ $^3\text{H}$ ]-noradrenaline and [ $^{14}\text{C}$ ]-propranolol to synaptosomal fractions of rat brain homogenates
- 498P HEMSWORTH, B.A., SHREEVE, S.M. & VEITCH, G.B.A. The neuromuscular blocking action of some cyclic analogues of choline
- 501P TOMLINSON, D.R. A card and board game to reinforce learning of elementary clinical pharmacology
- 501P BRADLEY, J.R., FAYLE, R.J.S., HARMSWORTH, N.J., KAYANI, J.A., LOCKETT, W.I., MONTGOMERY, S.C., SHORT, A.H., TRIMBLE, I.M.G. & WILSON, C.G. Student-constructed hydraulic and mechanical models for learning fundamentals of pharmacokinetics
- 502P JOHNSON, F. & WILSON, C.G. A microprocessor-based simulator for teaching pharmacokinetics
- 503P BENNETT, T., MARSDEN, C.A., SHORT, A.H. & TOMLINSON, D.R. True false units of assessment in physiology and pharmacology
- 503P FOY, J.M. Diuretic testing
- 504P LEACH, G.D.H. Laboratory demonstration of drug responses using the videograph recording system
- 504P IRVING, G. The effects of autonomic drugs in mice
- 504P BOTTING, REGINA M. & TUFFERY, A.A. Audio-visual teaching material used on courses for new Home Office Licensees
- 504P HEYWOOD, J. (introduced by WILSON, C.W.M.) The implications of microprocessors for the curriculum in pharmacology
- 504P CANNON, P.J. & O'CONNELL, C. Autonomic out-flow stimulation at different spinal cord levels and the resulting cardiovascular, gut and bladder responses in the frog
- 505P CANNON, P.J., GILNA, P. & O'CONNELL, C. A method of illustrating changes in acid secretion and motility in the rat exteriorized stomach
- 506P CANNON, P.J., MULVIHILL, T.P. & MURPHY, P. Further electronic evolution of the Palmer Kymograph
- 506P CANNON, P.J., MONKS, R. & MURPHY, P. Transducer-adapted Benedict Roth Spirometer for small animals