British Journal of Pharmacology

- 513 YABUUCHI, Y. The β -adrenoceptor stimulant properties of OPC-2009 on guinea-pig isolated tracheal, right atrial and left atrial preparations
- AARSEN, P.N. The effects of bradykinin and the bradykinin potentiating peptide BPPsa on the electrical and mechanical responses of the guineapig taenia coli
- MITCHELL, H.W. & SPARROW, M.P. The effect of catecholamines on the in vivo and in vitro responses of the cat lung during anaphylaxis
- NORTH, R.A. & TONINI, M. The mechanism of action of narcotic analgesics in the guinea-pig ileum
- ECCLES, R. & MacLEAN, A.G. Relaxation of smooth muscle following contraction elicited by sympathetic nerve stimulation in vivo
- DOXEY, J.C. & EVERITT, J. Inhibitory effects of 559 clonidine on responses to sympathetic nerve stimulation in the pithed rat
- WRIGHT, I.G. Kinin, kiningeen and kininase 567 levels during acute Babesia bovis (=B. argentina) infection of cattle
- BENNETT, A. & STOCKLEY, HELEN L. The contribution of prostaglandins in the muscle of human isolated small intestine to neurogenic responses
- BENNETT, A., STAMFORD, I.F. & STOCKLEY, HELEN L. Estimation and 579 characterization of prostaglandins in the human gastrointestinal tract
- HUDLICKA, O. & REIT, E. The influence of 587 vasoactive substances on blood flow and contractile responses of cat gastrocnemius

- HAWGOOD, BARBARA J. & SMITH, J.W. The mode of action at the mouse neuromuscular junction of the phospholipase A-crotapotin complex isolated from venom of the South American rattlesnake
- 607 MESSENGER, E. ANGELA & WARNER, ANNE E. The action of melatonin on single amphibian pigment cells in tissue culture
- HOULT, J.R.S. & MOORE, P.K. Pathways of 615 prostaglandin F_{2a} metabolism in mammalian kidneys
- HALL, MOIRA T., MALEQUE, M.A. & WADSWORTH, R.M. The role of extracellular 627 calcium in the contractions produced by acetylcholine in chronically denervated muscle
- HUGHES, J., KOSTERLITZ, H.W. & SMITH, 639 T.W. The distribution of methionine-enkephalin and leucine-enkephalin in the brain and peripheral tissues
- 649 JENKINS, D.A., MARSHALL, I. & NASMYTH. P.A. An inhibitory role for noradrenaline in the mouse vas deferens
- DAWBORN, J.K., MACNEIL, S. & MARTIN, T.J. Diuretics and the renal adenylate cyclase system
- BOOTH, D.A., D'MELLO, G.D., PILCHER, C.W.T. & STOLERMAN, I.P. Comparative 669 potencies of amphetamine, fenfluramine and related compounds in taste aversion experiments in
- 679 BORISON, H.L. & McCARTHY, L.E. Respiratory and circulatory effects of saxitoxin in the cerebrospinal fluid

SHORT COMMUNICATIONS

- 691 SILINSKY, E.M. An estimate of the equilibrium dissociation constant for calcium as an antagonist of evoked acetylcholine release: implications for excitation-secretion coupling
- 694 JONES, R.L. & MARR, C.G. Actions of 16-aryloxy analogues of prostaglandin $F_{2\alpha}$ on preparations responsive to prostaglandin endoperoxides
- 697 BURKA, J.F. & GARLAND, L.G. A possible modulatory role for prostacyclin (PGI₂) in IgG_a-induced release of slow-reacting substance of anaphylaxis in rats
- 700 PEARL, J. & WOODWARD, W.A. Effect of apomorphine and its N-propyl homologue on ethanol withdrawal head twitches in mice

British Journal of Pharmacology

CONTENTS

VOLUME 61 NUMBER 1 SEPTEMBER 1977

- 5 TORDA, CLARA. Hypothalamic adrenaline synthesis after stimulation of the medial forebrain bundle
- 9 HIMORI, N. & TAIRA, N. Assessment of the selectivity of OPC-2009, a new β_2 -adrenoceptor stimulant, by the use of the blood-perfused trachea *in situ* and of the isolated blood-perfused papillary muscle of the dog
- 19 BENTFELD, M., LÜLLMANN, H., PETERS, T. & PROPPE, D. Interdependence of ion transport and the action of ouabain in heart muscle
- 29 ARTUNKAL, AKGÜL A., MARLEY, E. & STEPHENSON, J.D. Some effects of intravenous prostaglandin E₁ and endotoxin in young chickens
- 39 ARTUNKAL, AKGÜL A., MARLEY, E. & STEPHENSON, J.D. Some effects of prostaglandins E₁ and E₂ and of endotoxin injected into the hypothalamus of young chicks: dissociation between endotoxin fever and the effects of prostaglandins
- 47 BRITTAIN, R.T., JACK, D. & TYERS, M.B. Pharmacological and certain chemical properties of AH 10407, an unusually short-acting, competitive neuromuscular blocking drug, and some related compounds
- 57 MILLER, K.W. & YU, S-C. T. The dependence of the lipid bilayer membrane: buffer partition coefficient of pentobarbitone on pH and lipid composition

- 65 DUGGAN, A.W., HALL, J.G. & HEADLEY, P.M. Suppression of transmission of nociceptive impulses by morphine: selective effects of morphine administered in the region of the substantia gelatinosa
- 77 CHAI, C.Y. & LIN, M.T. The enhancement of chlorpromazine-induced hypothermia by lesions in the anterior hypothalamus
- 83 COX, B. & LEE, T.F. Do central dopamine receptors have a physiological role in thermoregulation?
- 87 BORN, G.V.R. & FOULKS, J.G. Inhibition by a stable analogue of adenosine triphosphate of platelet aggregation by adenosine diphosphate
- 91 RUDY, T.A. & YAKSH, T.L. Hyperthermic effects of morphine: set point manipulation by a direct spinal action
- 97 MORISSET, J., NG, K.H. & POIRIER, G.G. Comparative inhibitory effects of 3-quinuclidinyl benzilate (QNB) and atropine on amylase release from rat pancreas
- 101 FLYNN, SHEILA B., JOHNSTON, BARBARA M. & OWEN, D.A.A. The cardiovascular response to dimaprit, a selective histamine H₂receptor agonist

SHORT COMMUNICATION

- 109 PICKLES, V.R. Effects of *N*-benzyl-L-valine on contractions of guinea-pig myometrium *in vitro*
- 111 PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY, Newcastle upon Tyne, 13th-15th July, 1977

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY Newcastle upon Tyne, 13th-15th July, 1977

- 111P ATTERWILL, C.K. & PRINCE, A.K. (introduced by Brownlee, G.). Ontogenesis of the multiple forms of choline acetyltransferase: uptake and acetylation of choline in rat brain
- 112P HIGGINS, A.J. & NEAL, M.J. Activation of high affinity choline uptake in sympathetic ganglia by potassium depolarization
- 113P AMBACHE, N., DALY, SUSAN, KILLICK, S.W. & WOODLEY, JANETTE P. Differentiation of neurogenic inhibition from ATP-responses in guinea-pig taenia caeci
- 115P HINDMARSH, J.R., IDOWU, O.A., YEATES, W.K. & ZAR, M.A. Pharmacology of electrically evoked contractions of human bladder
- 115P TURNER, N. & WEETMAN, D.F. Temperaturedependent effects of autonomic drugs on the response of the guinea-pig isolated bladder to parasympathetic nerve stimulation
- 116P BENTLEY, SUSAN M., DREW, G.M. & WHITING, SUSAN B. Evidence for two distinct types of postsynaptic α-adrenoceptor
- 117P CROCKER, ANN D., MAYEKA, I.M. & WILSON, K.A. Calcium, cyclic amp and the response of rat descending colon to angiotensin, to prostaglandin E₂ and to potassium chloride
- 118P CALLINGHAM, B.A. Substrate selective inhibition of monoamine oxidase by mexiletine
- 119P CHIU, A., ECCLESTON, D. & PALOMO, T. (introduced by Yates, C.M.). A model to test the relative potencies of phosphodiesterase inhibitors in brain (in vivo)
- 120P ARGENT, B.E., CASE, R.M., SMITH, P.A. & SUNTER, J.P. (introduced by Zar, M.A.). The effect of chronic administration of D-penicillamine on the rat pancreas
- 121P O'BRIEN, M.J., ALLIN, C.N., BIRCH, N.J. & HULLIN, R.P. Inhibition of rabbit muscle pyruvate kinase by lithium
- 122P GIBSON, A. & STREET, CAROLINE V. Tissue variability and some properties of the accumulation of [3H]-corticosterone by isolated organs
- 123P CLARKE, G., HERRING, LYNDA P. & LINCOLN, D.W. Two separate cholinergic mechanisms for regulation of oxytocin release

- 124P MAIN, I.H.M. & PEARCE, J.B. Effect of calcium on acid secretion by the isolated rat gastric mucosa
- 124P BLOWER, P.R., FLACK, J.D. & DAY, M.D. The effects of some gastrointestinal hormones and metoclopramide on cardiovascular dopamine receptors
- 125P FLYNN, SHEILA B., GRISTWOOD, R.W. & OWEN, D.A.A. The effects of histamine and selective histamine receptor agonists on the isolated working guinea-pig heart preparation
- 126P BELL, G.J., HILEY, C.R. & YATES, M.S. The effects of four general anaesthetic agents on the regional distribution of cardiac output in the rat
- 128P MARSHALL, I., NASMYTH, P.A. & SHEPPERSON, N.B. The relationship between pre-synaptic α -adrenoceptors, stimulation frequency and calcium
- 129P MARSHALL, I., NASMYTH, P.A., RUSSELL, G.K. & SHEPPERSON, N.B. Ergometrine: a presynaptic α-adrenoceptor agonist
- 130P BORKOWSKI, K.R. & FINCH, L. Cardiovascular responses to centrally administered adrenaline in spontaneous hypertensive rats
- 130P FOZARD, J.R., MOBAROK ALI, A.T.M. & NEWGROSH, G. Selective blockade of presynaptic tryptamine receptors by (-)-cocaine and (+)-cocaine
- 131P FRENCH, A. McK. & SCOTT, N.C. A benzotriazinium salt as a potential antiarrhythmic agent
- 133P HARRIS, J.B. JOHNSON, MARGARET A. & MACDONELL, CHARLOTTE. Taipoxin, a presynaptically active neurotoxin, destroys mammalian skeletal muscle
- 133P TAYLOR, W. & LESNA, MILENA. (introduced by Zar, M.A.). The hepatotoxicity of lithocholic acid in male mice
- 134P GOLDBERG, A., MEREDITH, P.A., MILLER, S., MOORE, M.R. & THOMPSON, G.G. Haem biosynthesis and hepatic drug metabolism in lead poisoned rats
- 135P CALDWELL, J., NOTARIANNI, LIDIA J., SMITH, R.L. & SNEDDEN, W. The metabolism of bupivacaine in the rat

- 136P ARMSTRONG, J.M., CHAPPLE, D., DUSTING, G.J., HUGHES, R., MONCADA, S. & VANE, J.R. Cardiovascular actions of prostacyclin (PGI₂) in chloralose anaesthetized dogs
- 137P HIGGS, G.A., MONCADA, S. & VANE, J.R. Prostacyclin (PGI₂) inhibits the formation of platelet thrombi induced by adenosine diphosphate (ADP) in vivo
- 138P WESTWICK, J. (introduced by Lewis, G.P.).

 Modulation of thrombus formation *in vivo* by prostaglandins
- 139P MAIN, I.H.M. & MELARANGE, R. Inhibition of bile salt-induced gastric mucosal erosions by 16,16 dimethyl prostaglandin E₂ in the rat
- 140P ANDERSON, A.A., FLETCHER, THELMA C. & SMITH, G.M. The presence of a prostaglandinlike substance in the skin of the plaice, *Pleuronectes platessa* L.
- 140P GORDON, J.L., MacINTYRE, D.E. & McMILLAN, R.M. Stimulation of platelets and macrophages by carrageenin
- 142P JENNER, P., MARSDEN, C.D. & PYCOCK, C.J. Chronic amphetamine administration and central dopamine receptor sensitivity
- 142P GORDON, J.L. & OLVERMAN, H.J. Transport of dopamine by rat blood platelets
- 144P CAIRNCROSS, K.D., COX, B., SCHNIEDEN, H. & WREN, ALLISON. Modification by antidepressant drugs of plasma corticosterone levels in the stressed bulbectomized rat
- 145P CAIRNCROSS, K.D., COX, B., FORSTER, C. & WREN, A. The ability of local injection of 6-OHDA, 5,6-DHT and 5,7-DHT into the olfactory bulbs, to mimic the effects of bilateral bulbectomy in the rat
- 146P BUCKETT, W.R., CROSSLAND, N.J., GALT, R.H.B., MATUSIAK, Z., PEARCE, R.J., SHAW, J.S. & TURNBULL, M.J. The xanthene-spiropiperidines: a new group of centrally-active drugs
- 147P BRADLEY, P.B., GAYTON, R.J. & LAMBERT, LYNN A. A microiontophoretic study of enkephalin and enkephalin analogues on brain stem neurones in the rat

- 148P CURTIS, D.R., JOHNSTON, G.A.R. & LODGE, D. *In vivo* effects of GABA uptake inhibitors on the response of cat spinal neurones to GABA analogues
- 149P DUGGAN, A.W. & HEADLEY, P.M. The effects of noradrenaline and 5-hydroxytryptamine on the responses of dorsal horn neurones to noxious and innocuous skin stimuli
- 149P BELCHER, G. (introduced by Ryall, R.W.).

 Correlation between effects of brain-stem stimulation and effects of 5-hydroxytryptamine and noradrenaline on non-nociceptive and nociceptive spinal interneurones
- 150P MUNDAY, K.A., POAT, JUDITH A., WATLING, K.J. & WOODRUFF, G.N. On the structural requirements for dopamine-like activity in homogenates of rat nucleus accumbens
- 151P BAKER, G.B., MARTIN, I.L. & MITCHELL, P.R. (introduced by Bradley, P.B.). The effects of some indolalkylamines on the uptake and release of 5-hydroxytryptamine in rat striatum
- 152P MORINAN, A. & LEONARD, B.E. Effects of chronic (±)-propranolol on catecholamines and GABA in rat striatum
- 153P KUMAR, R., MUMFORD, L. & TEIXEIRA, A.R. Reactions of morphine-dependent rats to changes in their usual daily dose
- 153P CLINGBINE, G. (introduced by Heading, C.E.). Effect of vinblastine sulphate on the acquisition of a conditioned avoidance response in the goldfish
- 155P ALLAN, W., GASCOIGNE, K., LUDLOW, J. & SMITH, J.W. (introduced by Harris, J.B.). A modular system of instruments for simple experiments on skeletal muscle using intracellular microelectrode techniques
- 155P SPEDDING, M. A modified guinea-pig stomach preparation
- 156P BESWICK, SUSAN P., DAVIES, JACQUELINE S. & GOADBY, P. Regional perfusion of the airways of guinea-pig lung: a selective action of histamine on the smooth muscle of the small airways
- 157P IDOWU, O.A. & ZAR, M.A. The use of rat atria as a simple and sensitive *in vitro* preparation for detecting pre-synaptic actions of drugs on adrenergic transmission

- 157P SHABAYEK, H.A. & TROUNCE, J.R. Effect of vinblastine and mustine on the distribution of T and B-lymphocytes
- 158P DOWNING, I. & WILLIAMS, K.I. Differential prostaglandin production by microsomal fractions of rat pregnant uterus
- 158P BOLAM, J.P. & SMITH, M.J.H. Accumulation of platelets at acute inflammatory sites
- 159P DOW, J. & HALL, K. (introduced by Rawlins, M.D.). Estimation of plasma nicotine by combined capillary column gas chromatography-mass spectrometry

VOLUME 61 NUMBER 2 OCTOBER 1977

- 163 HISSA, R. & PYÖRNILÄ, A. Effect of intrahypothalamic phentolamine on hypothermia produced by peripheral noradrenaline in the pigeon
- 167 BENFEY, B.G. Cardiac adrenoceptors at low temperature and the adrenoceptor interconversion hypothesis
- 175 FLETCHER, J.R. & RAMWELL, P.W. Modification, by aspirin and indomethacin, of the haemodynamic and prostaglandin releasing effects of *E. coli* endotoxin in the dog
- 183 JAYASUNDAR, S. & VOHRA, M.M. Mechanism of nicotine-induced release of noradrenaline from adrenergic nerve endings
- 189 WARD, DAWN, & YOUNG, J.M. Ligand binding to muscarinic receptors in intact longitudinal muscle strips from guinea-pig intestine
- 199 McGRATH, J.C. & MacKENZIE, J.E. The effects of intravenous anaesthetics on the cardio-vascular system of the rabbit
- 213 DARGIE, H.J., FRANKLIN, S.S. & REID, J.L. Central and peripheral noradrenaline in the two kidney model of renovascular hypertension in the rat
- 217 BEDWANI, J.R., ISHIZAWA, M., PICKLES, V.T. & SUWANKRUGHASN, SURANG. Spasmogenic and potentiating actions of some amino acids on the guinea-pig myometrium
- 223 COSTA, J.L., MURPHY, D.L. & REVEILLE, J. Evaluation of the uptake of various amines into storage vesicles of intact human platelets
- 229 LEWIS, G.P. & WHITTLE, B.J.R. The inhibition of histamine release from rat peritoneal mast cells by non-steroid anti-inflammatory drugs and its reversal by calcium

- 237 GARLAND, L.G. & JOHANSEN, T. The relationship between energy metabolism and the action of inhibitors of histamine release
- 243 BONTING, S.L., DE PONT, J.J.H.H.M., KEMPEN, H.J.M., CASE, R.M., SMITH, PAMELA A. & SCRATCHERD, T. The effects of alloxanate, nicotinic acid and imidazole on secretory processes and the activities of adenylate cyclase and 3',5'-AMP phosphodiesterase in cat pancreas
- 251 JACKSON, D.M. & RICHARDS, I.M. The effects of pentobarbitone and chloralose anaesthesia on the vagal component of bronchoconstriction produced by histamine aerosol in the anaesthetized dog
- 257 JACKSON, D.M. & RICHARDS, I.M. The effects of sodium cromoglycate on histamine aerosol-induced reflex bronchoconstriction in the anaesthetized dog
- 263 ASANO, M. & HIDAKA, H. Relexation of isolated aorta of the rabbit by picolinic acids
- 271 COX, B.M. & PADHYA, REKHA. Opiate binding and effect in ileum preparations from normal and morphine pretreated guinea-pigs
- 279 BUNCE, K.T., MARSH, GILLIAN F. & PARSONS, M.E. The effect of atropine on acid secretion stimulated by acetylcholine, histamine and gastrin in the isolated whole stomach of the rat
- ATKINSON, G., BOGAN, J.A., BREEZE, R.G.
 & SELMAN, I.E. Effects of 3-methylindole in cattle
- 291 BELL, C. & MATALANIS, G. Dopamineinduced depression of adrenergic nerve-mediated contraction of smooth muscle

- 297 KEY, B.J. & KRZYWOSKINSKI, L. Electrocortical changes induced by the perfusion of noradrenaline, acetylcholine and their antagonists directly into the dorsal raphé nucleus of the cat
- 307 GOODLET, I., MIREYLEES, S.E. & SUGRUE, M.F. Effects of mianserin, a new antidepressant, on the *in vitro* and *in vivo* uptake of monoamines

SHORT COMMUNICATIONS

- 315 MARSHALL, R. J. & PARRATT, J.R. The antidysrhythmic aminosteroid, ORG 6001, reduces the ST-segment elevation produced by coronary occlusion in the dog
- 318 ÅBLAD, B., ALMGREN, O., CARLSSON, A., HENNING, M., JONASSON, J. & LJUNG, B. Reduced adrenal amine synthesis in spontaneously hypertensive rats after long-term treatment with propranolol

VOLUME 61 NUMBER 3 NOVEMBER 1977

- 325 CURRY, S.H., NICHOLSON, A.N., WHELPTON, R. & WRIGHT, C.M. Behavioural and pharmacokinetic studies in the monkey (*Macaca mulatta*) with diazepam, nordiazepam and related 1,4-benzodiazepines
- 331 CANDY, J.M. & KEY, B.J. A presynaptic site of action within the mesencephalic reticular formation for (+)-amphetamine-induced electrocortical desynchronization
- 339 TOMLINSON, D.R. The mode of action of tetrabenazine on peripheral noradrenergic nerves
- 345 BARRON, K., CARRIER, O., HAEGELE, K.D., McLEAN, A.J., McNAY, J.L. & DU SOUICH, P. Comparative evaluation of the *in vitro* effects of hydralazine and hydralazine acetonide on arterial smooth muscle
- 351 BEDDELL, C.R., CHANG, K.-J., CLARK, R.B., CUATRECASAS, P., LOWE, L.A. MILLER, R. & WILKINSON, S. A conformational analysis for leucine-enkephalin using activity and binding data of synthetic analogues
- 357 MELROSE, J., PALFREYMAN, M.G., POYSER, R.H. & WHITING, R.L. BRL 13776: A novel antihypertensive agent with interesting monoamine depleting properties
- 371 CARLINI, E.A., LINDSEY, C.J. & TUFIK, S. Cannabis, catecholamines, rapid eye movement, sleep and aggressive behaviour
- 381 SEN, A.K., SUNAHARA, F.A., TALESNIK, J. & ENDRENYI, L. Coronary reactions to cardiac hyperactivity and to hypoxia in isolated perfused heart of rat

- 395 ALTER, I., KOT, P.A., RAMWELL, P.W., ROSE, J.C. & SHNIDER, M.R. Circulatory effects of prostaglandin endoperoxide analogues studied in the dog during left ventricular bypass
- 399 DUGGAN, A.W., HALL, J.G. & HEADLEY, P.M. Enkephalins and dorsal horn neurones of the cat: effects on responses to noxious and innocuous skin stimuli
- 409 CHAPPLE, D.J., HUGHES, R. & JOHNSON, B.F. Transient changes in plasma digoxin concentration and the development of cardiotoxicity
- 415 D'MELLO, G.D. & STOLERMAN, I.P.
 Comparison of the discriminative stimulus
 properties of cocaine and amphetamine in rats
- 423 FRICKE, U. & KLAUS, W. Evidence for two different Na⁺-dependent [³H]-ouabain binding sites of a Na⁺-K⁺-ATPase of guinea-pig hearts
- 429 MARSHALL, J.M. The effect of uptake by adrenergic nerve terminals on the sensitivity of arterial vessels to topically applied noradrenaline
- 433 ANGEL, A., CLARKE, K.A. & DEWHURST, D.G. A pharmacological study of the spontaneous convulsive activity induced by 1,2-dihydroxybenzene (catechol) in the anaesthetized mouse

SHORT COMMUNICATION

- 441 VOGT, M. Histamine H₂-receptors in the brain and sleep produced by clonidine
- 445P PROCEEDINGS OF THE BRITISH PHARMA-COLOGICAL SOCIETY, Manchester, 7-9 September 1977

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY

University of Manchester, 7th-9th September, 1977

- 445P GREAVES, M.W., HENSBY, C.N., PLUMMER, N.A. & WARIN, A.P. The effect of short wavelength ultraviolet C (254 nm), irradiation on arachidonic acid and prostaglandins E_2 and $F_{2\alpha}$ concentrations in human skin
- 446P CHANG, J., LEWIS, G.P. & PIPER, PRISCILLA J. The effect of anti-inflammatory drugs on the prostaglandin system in human subcutaneous adipose tissue
- 447P WILLIAMS, T.J. (introduced by Lewis, G.P.).
 Chemical mediators of vascular responses in inflammation: a two mediator hypothesis
- 449P LEWIS, G.P., LIEBERMAN, GRETA E. & WESTWICK, J. Potentiation of ADP-ase activity of aortic rings by prostaglandin synthetase inhibitors and PGE,
- 450P FRAME, M.H. & MAIN, I.H.M. A comparison of the effects of stable endoperoxide analogues with PGE₂ and PGF_{2a} on rat gastric secretion, *in vivo* and *in vitro*
- 451P MONCADA, S., MUGRIDGE, K.G. & WHITTLE, B.J.R. The differential response of a novel bioassay tissue, the rabbit transverse stomach-strip, to prostacyclin (PGI₂) and other prostaglandins
- 452P GORDON, J.L., MacINTYRE, D.E. & McMILLAN, R.M. Effect of divalent cations on lysosomal enzyme release from macrophages
- 453P BOULLIN, D.J., GLENTON, P.A.M., MOLYNEUX, D., PETERS, J.R. & ROACH, B. Binding of 5-hydroxytryptamine to human blood platelets
- 454P HORNBY, CLAIRE & MULLEN, P.W. The effects of phenytoin on T-lymphocyte enumeration
- 455P JACKSON, H. Toxicological aspects of male antifertility α-chlorohydrins
- 456P DICKINSON, N.A., FITZPATRICK, R.W. & JACKSON, H. Antifertility mode of action of a-chlorohydrin—interaction with glyceraldehyde-3-phosphate-dehydrogenase
- 456P AARONS, L.J., BOCHNER, F. & ROWLAND, M. A chronic dose-ranging kinetic study of salicylate in man

- 457P KANE, KATHLEEN A. (introduced by Parratt, J.R.). Comparative effects of a new orally active antidysrhythmic agent, Organon 6001, on the cardiac action potential of human ventricular muscle and sheep Purkinje fibres
- 459P BARNETT, D.B., NAHORSKI, S.R. & RUGG, ELIZABETH L. Characteristics of (—)-[3H]dihydro-alprenolol binding to β-adrenoceptors on rat lung membranes
- 460P KISIN, I. (introduced by Youdim, M.B.H.). The effects of vasodilator drugs on vascular responses to sympathetic nerve stimulation
- 461P MAIN, I.H.M. & PEARCE, J.B. Histamine output from the rat isolated gastric mucosa during acid secretion stimulated by pentagastrin, methacholine and dibutyryl cyclic adenosine 3',5'-monophosphate
- 462P DALY, M.J., LONG, JANET M. & STABLES, R. Classification of the β -adrenoceptors that mediate inhibition of pentagastrin-induced gastric acid secretion in the dog
- 463P BROADLEY, K.J. & WILSON, C. A dualcomponent positive inotropic response of guineapig isolated atria to histamine
- 464P AMBACHE, N., KILLICK, S.W. & WOODLEY, JANETTE P. Evidence against purinergic motor transmission in guinea-pig urinary bladder
- 465P APPERLEY, EIRA, HUMPHREY, P.P.A. & LEVY, G.P. Two types of excitatory receptor for 5-hydroxytryptamine in dog vasculature?
- 466P FENIUK, W., HUMPHREY, P.P.A. & LEVY, G.P. Further evidence for two types of excitatory receptor for 5-hydroxytryptamine in dog vasculature
- 467P CARR, SUSAN R. & FOZARD, J.R. Differential sensitivity of neuronal stimulant responses to 5-hydroxytryptamine to inhibition by agonists at presynaptic receptor sites
- 468P DREW, G.M., GOWER, ALMA J. & MARRIOTT, A.S. Pharmacological characterization of a-adrenoceptors which mediate clonidine-induced sedation

- 469P CAVERO, I., LEFEVRE, F. & ROACH, A.G. Differential effects of prazosin on the pre- and postsynaptic α-adrenoceptors in the rat and dog
- 469P MACLAGAN, JENNIFER & NEY, URSULA M. Investigation of the bronchoconstriction induced by β-adrenoceptor blocking drugs in guinea-pigs and rats
- 470P CALLINGHAM, B.A. & PARKINSON, D. The inhibition of human heart monoamine oxidase
- 471P GIBSON, A., JAMES, T., SHAW, N. & TRACY, E. The effect of some dopamine agonists and antagonists on the rat anococcygeus muscle in vitro
- 472P DOCHERTY, J.R. & McGRATH, J.C. Potentiation of cardiac sympathetic nerve responses in vivo by pancuronium bromide
- 473P GILMORE, D.P. & McGRATH, J.C. Effects of castration on the mechanical response to motor nerve stimulation of the rat vas deferens
- 474P NICHOLSON, A.N. & WRIGHT, CATHERINE M. Behavioural studies in the monkey (*Macaca mulatta*) with sotalol and with (+)-, (±)- and (—)-propranolol
- 475P FILE, S.E. & HYDE, J.R.G. The effects of piracetam on acquisition and retention of habituation
- 476P ROBERTS, FIONA & TABERNER, P.V. Assessment of the anticonvulsant activity of inhibitors of high-affinity GABA uptake
- 477P HORTON, R.W. & MELDRUM, B.S. A comparison of the effects of allylglycine and 2-keto-4-pentenoic acid on cerebral glutamic acid decarboxylase activity and convulsions in mice
- 477P KENNEDY, A.J. & NEAL, M.J. Uptake systems for (—)-2,4-diaminobutyric acid in rat cerebral cortical slices
- 478P DAVIS, A., ROBERTS, P.J. & WOODRUFF, G.N. Uptake of 2-amino-6,7-dihydroxy-1,2,3,4-tetrahydronaphthalene (ADTN) into rat brain synaptosomes
- 479P BEVAN, P., BRADSHAW, C.M., PUN, R., SLATER, N.T. & SZABADI, E. Further observations of the effects of noradrenaline and dopamine on cortical neurones
- 480P BASHIR, A.A. & BRAMWELL, G.J. Effect of etorphine on brain stem neurones in the rat: a microiontophoretic study

- 481P DUTTA, A.S., GORMLEY, J.J., HAYWARD, C.F., MORLEY, J.S., SHAW, J.S., STACEY, G.J. & TURNBULL, M.J. Analgesia following intravenous administration of enkephalin analogues
- 482P JENNER, P., MARSDEN, C.D., PYCOCK, C. & REAVILL, C. Lack of serotoninergic involvement in turning behaviour induced by a unilateral lesion of the locus coeruleus in rats
- 483P CROSSMAN, A.R., LEE, L.A. & SLATER, P. Effects of manipulating pallidal and nigral GABA on striatally-mediated head-turning in the rat
- 484P EVANS, R.H. & HILL, R.G. The GABA-mimetic action of etomidate
- 484P HILL, R.G., MITCHELL, J.F. & PEARSON, S. Interactions of GABA antagonists on the isolated frog spinal cord
- 485P FLETCHER, A. & SUGDEN, D. (introduced by Holmes S.W.). The effect of (±)-6-fluorotryptophan on sleep and brain monoamine levels in the rat.
- 486P GLEN, J.B. (introduced by Turnbull, M.J.).
 Interactions between intravenous anaesthetic agents and suxamethonium in mice
- 488P CROSSMAN, A.R., LEE, L.A. & SLATER, P. A method for investigating neurotransmission in the basal ganglia using combined stimulation and intracerebral drug injection
- 489P CROSSLAND, N.J. & TURNBULL, M.J. Assessment of the effectiveness of drugs to substitute for morphine in the opiate-dependent rhesus monkey
- 490P CROSSLAND, N.J., HORSFALL, G.B., OXENHAM, SALLY T., SHAW, J.S. & TURNBULL, M.J. A simple device for measurement of respiratory rate in the mouse
- 491P SMALL, R.C. & WESTON, A.H. Simultaneous recording of electrical and mechanical activity from intestinal and vascular smooth muscle
- 492P SZABADI, E. The influence of the baseline on the size of pharmacological responses: a theoretical model
- 494P DIXON, J.S., FOZARD, J.R., GOSLING, J.A., MUSCHOLL, E., & RITZEL, H. Ultrastructural changes in atrial sympathetic nerves during perfusion with solutions deficient in sodium and compensated by potassium or urea

- 495P FARRANT, G., THOMPSON, SUSAN E. & SCHNIEDEN, H. Quantitative assessment of climbing behaviour in mice
- 496P COX, B., PERCIVAL, D. SHAIL, G. & TOMKINS, C. An inexpensive method for transmitting and receiving core temperature changes in unrestrained animals
- 497P CAIRNCROSS, K.D., COX, B., FORSTER, C. & WREN, A.F. The olfactory bulbectomized rat: a simple model for detecting drugs with antidepressant potential
- 498P MURCOTT, C.A. & CARPENTER, J.R. Inhibition in the rat oviduct mediated by an unidentified transmitter
- 499P FOZARD, J.R., MOBAROK ALI, A.T.M. & MUSCHOLL, E. Structure-activity relationship of compounds which block receptors for 5-hydroxytryptamine on the sympathetic nerves of the rabbit heart
- 501P HOLLINGSWORTH, M. & ISHERWOOD, CATHERINE N.M. Changes in the extensibility of the cervix of the rat in late pregnancy produced by prostaglandin F_{2a}, ovariectomy and steroid replacement
- 502P ABDELLATIF, M.M. & HOLLINGSWORTH, M. The *in vitro* and *in vivo* effects of oxotremorine on the phosphatidylchlorine content of washes of neonatal rabbit lungs

- 503P ADDISON, RAE & WILSON, T.R. Videotape recording of socioactography in rats
- 503P WATHEN, G.H. (introduced by Weston, A.H.). A versatile laboratory alarm/timer
- 504P DUMONDE, D.C., JOSE, P.J., PAGE, D.A. & WILLIAMS, T.J. (introduced by Lewis, G.P.). Production of prostaglandins by porcine endothelial cells in culture
- 505P WHALLEY, E.T. The cardiovascular and uterine effects of labetolol in conscious normotensive pregnant rats
- 506P CHIVERS, L. & WHALLEY, E.T. Action of bradykinin on isolated rat whole uterus and longitudinal myometrial strip
- 507P MAIN, I.H.M. & MELARANGE, R. Studies on indomethacin-induced gastric mucosal erosions and their inhibition by 16, 16 dimethyl prostaglandin E₂ in the rat
- 507P FOSTER, R.W. Measurement of the facility of multiple choice examinations
- 508P GEMMELL, D.K., LEWIS, A.J. & STIMSON, W.H. Studies on the anti-inflammatory properties of dapsone in a variety of animal models
- 509P COX, B. & LEE, T.F. Effects of atropine and pimozide on hypothermia induced by apomorphine or oxotremorine in rats

VOLUME 61 NUMBER 4 DECEMBER 1977

- 513 YABUUCHI, Y. The β -adrenoceptor stimulant properties of OPC-2009 on guinea-pig isolated tracheal, right atrial and left atrial preparations
- 523 AARSEN, P.N. The effects of bradykinin and the bradykinin potentiating peptide BPP_{5a} on the electrical and mechanical responses of the guineapig taenia coli
- 533 MITCHELL, H.W. & SPARROW, M.P. The effect of catecholamines on the *in vivo* and *in vitro* responses of the cat lung during anaphylaxis
- 541 NORTH, R.A. & TONINI, M. The mechanism of action of narcotic analgesics in the guinea-pig ileum

- 551 ECCLES, R. & MacLEAN, A.G. Relaxation of smooth muscle following contraction elicited by sympathetic nerve stimulation *in vivo*
- 559 DOXEY, J.C. & EVERITT, J. Inhibitory effects of clonidine on responses to sympathetic nerve stimulation in the pithed rat
- 567 WRIGHT, I.G. Kinin, kininogen and kininase levels during acute *Babesia bovis* (=B. argentina) infection of cattle
- 573 BENNETT, A. & STOCKLEY, HELEN L. The contribution of prostaglandins in the muscle of human isolated small intestine to neurogenic responses

- 579 BENNETT, A., STAMFORD, I.F. & STOCKLEY, HELEN L. Estimation and characterization of prostaglandins in the human gastrointestinal tract
- 587 HUDLICKA, O. & REIT, E. The influence of vasoactive substances on blood flow and contractile responses of cat gastrocnemius
- 597 HAWGOOD, BARBARA J. & SMITH, J.W. The mode of action at the mouse neuromuscular junction of the phospholipase A-crotapotin complex isolated from venom of the South American rattlesnake
- 607 MESSENGER, E. ANGELA & WARNER, ANNE E. The action of melatonin on single amphibian pigment cells in tissue culture
- 615 HOULT, J.R.S. & MOORE, P.K. Pathways of prostaglandin F_{2a} metabolism in mammalian kidneys
- 627 HALL, MOIRA T., MALEQUE, M.A. & WADSWORTH, R.M. The role of extracellular calcium in the contractions produced by acetylcholine in chronically denervated muscle
- 639 HUGHES, J., KOSTERLITZ, H.W. & SMITH, T.W. The distribution of methionine-enkephalin and leucine-enkephalin in the brain and peripheral tissues
- 649 JENKINS, D.A., MARSHALL, I. & NASMYTH, P.A. An inhibitory role for noradrenaline in the mouse vas deferens

- 657 DAWBORN, J.K., MACNEIL, S. & MARTIN, T.J. Diuretics and the renal adenylate cyclase system
- 669 BOOTH, D.A., D'MELLO, G.D., PILCHER, C.W.T. & STOLERMAN, I.P. Comparative potencies of amphetamine, fenfluramine and related compounds in taste aversion experiments in rats
- 679 BORISON, H.L. & McCARTHY, L.E. Respiratory and circulatory effects of saxitoxin in the cerebrospinal fluid

SHORT COMMUNICATIONS

- 691 SILINSKY, E.M. An estimate of the equilibrium dissociation constant for calcium as an *antagonist* of evoked acetylcholine release: implications for excitation-secretion coupling
- 694 JONES, R.L. & MARR, C.G. Actions of 16aryloxy analogues of prostaglandin F_{2a} on preparations responsive to prostaglandin endoperoxides
- 697 BURKA, J.F. & GARLAND, L.G. A possible modulatory role for prostacyclin (PGI₂) in IgG_a-induced release of slow-reacting substance of anaphylaxis in rats
- 700 PEARL, J. & WOODWARD, W.A. Effect of apomorphine and its N-propyl homologue on ethanol withdrawal head twitches in mice