British Journal of Pharmacology

- 399 SMITH, D.F. Lithium orotate, carbonate and chloride: pharmacokinetics, polydipsia and polyuria in rats.
- 403 KAROUM, F. MAJCHROWICZ, E. & WYATT, R.J. Brain concentrations of biogenic amine metabolites in acutely treated and ethanol-dependent rats.
- 413 EGAN, SANDRA M., GRAHAM, J.D.P. & LEWIS, M.J. The uptake of tritiated Δ^1 -tetrahydrocannabinol by the isolated vas deferens of the rat.
- 417 DRUMMOND, A.H. & GORDON, J.L. Uptake of 5-hydroxytryptamine by rat blood platelets and its inhibition by adenosine 5'-diphosphate.
- 423 MARCHAND, C. & NADEAU, D. The distribution and kinetics of sulphacetamide in leukaemic mice.
- 431 CARRUBA, M.O., GROPPETTI, A., MANTEGAZZA, P., VICENTINI, L. & ZAMBOTTI, F. Effects of mazindol, a non-phenylethylamine anorexigenic agent, on biogenic amine levels and turnover rate.
- 437 DUTTA, S., MARKS, B.H. & STEPHEN, P.M. The uptake and subcellular distribution of radio-labelled metabolites of digitoxin in the guinea-pig isolated perfused heart.
- 443 DOW, R.C. & LASZLO, I. Uptake of 5-hydroxytryptamine in different parts of the brain of the rabbit after intraventricular injection.

- 449 CARRIER, O., JR., & HESTER, R.K. The relationship between calcium and increased sensitivity of rabbit aortae four hours after reserpine.
- 457 MICHELSON, M.J. & SHELKOVNIKOV, S.A. Isotonic and isometric responses of different tonic muscles to agonists and antagonists.
- 469 FERREIRA, S.H., HERMAN, A.G. & VANE, J.R. Prostaglandin production by rabbit isolated jejunum and its relationship to the inherent tone of the preparation.
- 479 MAGOS, L. The effects of dimercaptosuccinic acid on the excretion and distribution of mercury in rats and mice treated with mercuric chloride and methylmercury chloride.
- 485 GRAY, J.A., LÜLLMANN, H., MITCHELSON, F. & REIL, G.-H. Stereoselective binding in cardiac tissue of the enantiomers of benzetimide, an antimuscarinic drug.

SHORT COMMUNICATIONS

- 491 KUMAR, A., SHARMA, H.L. & SHARMA, V.N. Effect of SAS (A new 10-N-acylaminophenothiazine) on gastric secretion and ulceration in rats.
- 494 CHIPMAN, P. & GLOVER, W.E. Histamine H₂-receptors in the human peripheral circulation.

British Journal of Pharmacology

CONTENTS

VOLUME 56 NUMBER 1 JANUARY 1976

- 3 SCHILD, H.O. Dale and the development of pharmacology
- 9 HILL, R.G., SIMMONDS, M.A. & STRAUGHAN, D.W. Antagonism of yaminobutyric acid and glycine by convulsants in the cuneate nucleus of cat
- 21 GANGULY, D.K. Antioxotremorine action of propranolol
- 25 BOSIN, T.R., HIXSON, E. JANE & MAICKEL, R.P. Pressor effects of tryptamine analogues
- 29 OSBORNE, N.N. & PENTREATH, V.W. Effects of 5,7-dihydroxytryptamine on an identified 5hydroxytryptamine-containing neurone in the central nervous system of the snail *Helix pomatia*
- 39 GRYGLEWSKI, R.J. & KORBUT, R. Bioassay of histamine in the presence of prostaglandins
- 43 ADAMS, M.D., CHAIT, L.D. & EARNHARDT, J.T. Tolerance to the cardiovascular effects of Δ⁹tetrahydrocannabinol in the rat
- 49 GILBERT, J.C. & WYLLIE, M.G. Effects of anticonvulsant and convulsant drugs on the ATPase activities of synaptosomes and their components
- 59 JOHNSON, A.M., LOEW, D.M. & VIGOURET, J.M. Stimulant properties of bromocriptine on central dopamine receptors in comparison to apomorphine, (+)-amphetamine and -DOPA
- 69 BUCKINGHAM, R.E., HAMILTON, T.C. & MOORE, R.A. Prolonged effects of p-chlorophenylalanine on the blood pressure of conscious normotensive and DOCA/saline hypertensive rats

- 77 MILSON, J.A. & PYCOCK, C.J. Effects of drugs acting on cerebral 5-hydroxytryptamine mechanisms on dopamine-dependent turning behaviour in mice
- 87 JOHNSON, F.N. The effect of lithium chloride on one-trial passive avoidance learning in rats
- 93 BARBER, H.E., CALVEY, T.N., MUIR, K.T. & TAYLOR, K. The effects of edrophonium on erythrocyte acetylcholinesterase and neuromuscular function in the rat
- 101 STONE, T.W. Responses of neurones in the cerebral cortex and caudate nucleus to amantadine, amphetamine and dopamine
- 111 FELTZ, ANNE & LARGE, W.A. Effect of atropine on the decay of miniature end-plate currents at the frog neuromuscular junction
- 115 DANILOV, A.F., IVANOV, YU.J. & MICHELSON, M.J. The influence of motor nerve tetanization on the effect of organophosphorus cholinesterase inhibitors on neuromuscular transmission

SHORT COMMUNICATIONS

- 125 BAKHLE, Y.S. & YOUDIM, M.B.H. Metabolism of phenylethylamine in rat isolated perfused lung: evidence for monoamine oxidase 'type B' in lung
- 128 BROWN, D.A. & KWIATKOWSKI, D. A note on the effect of dithiothreitol (DTT) on the depolarization of isolated sympathetic ganglia by carbachol and bromo-acetylcholine

VOLUME 56 NUMBER 2 FEBRUARY 1976

- 133 MARLEY, E. & WHELAN, JENNIFER E. Some pharmacological effects of p-chlorophenylalanine unrelated to tryptophan hydroxylase inhibition.
- 145 BUTTAR, H.S. Impairment in the hepatic clearance of [35S]-bromosulphophthalein in paracetamol-intoxicated rats.

- 155 BRANDTZAEG, P., GAUTVIK, K.M., NUSTAD, K. & PIERCE, J.V. Rat submandibular gland kallikreins: purification and cellular localization.
- 169 JURKIEWICZ, A. & JURKIEWICZ, N.H. Dual effect of α-adrenoceptor antagonists in rat isolated vas deferens.
- 179 ALPS, B.J., DEVOY, P.W. & WATERFALL, J.F. The evaluation of the novel pressor activity of γ-piperidinobutyramide (Wy 20051, DF480).
- 187 SAXENA, P.N. Sodium and calcium ions in the control of temperature set-point in the pigeon.
- 193 EVANS, JANE P.M., GRAHAME-SMITH, D.G., GREEN, A.R. & TORDOFF, ANN F.C. Electroconvulsive shock increases the behavioural responses of rats to brain 5-hydroxytryptamine accumulation and central nervous system stimulant drugs.

- 201 SEIDLER, F.J. & SLOTKIN, T.A. Effects of chronic nicotine administration on the denervated rat adrenal medulla.
- 209 MICHAL, F. & MOTAMED, MINA. Shape change and aggregation of blood platelets: interaction between the effects of adenosine diphosphate, 5-hydroxytryptamine and adrenaline.
- 219 ABAITEY, A.K. & PARRATT, J.R. Cardiovascular effects of diethylcarbamazine citrate.
- 229 FLOWER, R.J., HARVEY, E.A. & KINGSTON, W.P. Inflammatory effects of prostaglandin D₂ in rat and human skin.
- 235 BUCKINGHAM, JULIA C. & HODGES, J.R. Hypothalamo-pituitary adrenocortical function in the rat after treatment with betamethasone.

VOLUME 56 NUMBER 3 MARCH 1976

- 245 KOSS, M.C. & NAKANO, J. Reflex bradycardia and hypotension produced by prostaglandin $F_{2\alpha}$ in the cat
- 255 ASHFORD, J. & JONES, B.J. The effects of intraamygdaloid injections of 6-hydroxydopamine on avoidance responding in rats
- 263 LEES, P. & SERRANO, L. Effects of azaperone on cardiovascular and respiratory functions in the horse
- 271 CLARKE, D.E. ROMANYSHYN, W.M. Blood pressure responses to adrenal field stimulation as a measure of adrenal catecholamine release
- 279 DORRIS, R.L. & SHORE, P.A. On the mechanism of action of clozapine on the adrenergic neurone
- 285 GUTMAN, Y. & MAZUR-RUDER, M. Rat uterus renin-like activity: effect of stimuli and hormones
- 293 HIMORI, N. & TAIRA, N. A method for recording smooth muscle and vascular responses of the blood-perfused dog trachea in situ

- 301 RIVERA-CALIMLIM LEONOR. Impaired absorption of chlorpromazine in rats given trihexyphenidyl
- 307 CURTIS, D.R., GAME, C.J.A. & LODGE, D. Benzodiazepines and central glycine receptors
- 313 DICK, W.C., GRENNAN, D.M. & ZEITLIN, I.J. Studies on the relative effects of prostaglandins, bradykinin, 5-hydroxytryptamine and histamine on the synovial microcirculation in dogs
- 317 CHAHL, LORIS A. & LADD, R.J. The effects of prostaglandins E_1 , E_2 and $F_{2\alpha}$ on the cutaneous vasculature of the rat
- 323 BOWERY, N.G. & JONES, G.P. A comparison of γ-aminobutyric acid and the semi-rigid analogues 4-aminotetrolic acid, 4-aminocrotonic acid and imidazole-4-acetic acid on the isolated superior cervical ganglion of the rat
- 331 ANDERSON, A.A. & LEES, G.M. Investigation of occurrence of tolerance to bronchodilator drugs in chronically pretreated guinea-pigs
- 339P PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY, London, 17-19 December, 1975

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY

Royal College of Surgeons, 17th-19th December, 1975

- 339P JONES, R.L. Selectivity of action of some C15modified prostaglandins D
- 340P WHITTLE, B.J.R. Prostaglandins and changes in the gastric mucosal barrier and blood flow during indomethacin- and bile salt-induced mucosal damage
- 341P WILLIAMS, T.J. (introduced by Lewis, G.P.). The pro-inflammatory activity of E-, A-, D- and F-type prostaglandins and enalogues 16, 16-dimethyl-PGE₂ and (15S)-15-methyl-PGE₂ in rabbit skin; the relationship between potentiation of plasma exudation and local blood flow changes
- 342P CHANG, J., LEWIS, G.P. & PIPER, PRISCILLA J. The effects of anti-inflammatory steroids on levels of prostaglandin in adipose tissue in vitro
- 343P BLACKWELL, G.J. & FLOWER, R.J. Effects of steroid hormones on tissue levels of prostaglandin 15-hydroxydehydrogenase in the rat
- 244P BUNTING, S., MONCADA, S., NEEDLEMAN, P. & VANE, J.R. Formation of prostaglandin endoperoxides and rabbit aorta contracting substance (RCS) by coupling two enzyme systems
- 345P FORD-HUTCHINSON, A.W., SMITH, M.J.H. & WALKER, J.R. Chemotactic activity of solutions of prostaglandin E_1
- 346P BAKER, DOROTHEA J, TRIST, D.G. & WEATHERALL, M. Inhibition of phagocytosis by mepacrine
- 347P ASSEM, E.S.K. Inhibition by antigen and by histamine antagonists of the uptake of histamine by isolated human leucocytes
- 349P BAKHLE, Y.S. The nature of the bradykinin inactivating system in isolated lungs
- 350P MORTON, I.K.M., ROSE, G.E., SAVERYMUTTU, S.H. & WOOD, J.R. Effects of some fatty acids on gallbladder function
- 351P AMBACHE, N. & KILLICK, S.W. Species variation in motor transmission to the retractor penis muscle
- 352P NISTRI, A. Effects of morphine on acetylcholine release from the frog spinal cord

- 353P GARTHWAITE, J. (introduced by Brown, D.A.).
 The uptake of weak acids and bases into isolated rat superior cervical ganglia in relation to intracellular pH
- 354P CHAPPLE, D.J., ENDERBY, D.H., HUGHES, R. & PAYNE, J.P. Neuromuscular and cardiovascular studies with dimethyl tubocurarine in anaesthetized cats, rhesus monkeys and man
- 355P HIROM, P.C., MILLBURN, P. & PARKER, R.J. (introduced by Williams, R.T.). The enterohepatic circulation of ¹H-phenolphthalein in the rat
- 356P RICHARDSON, B.P. (introduced by Berde, B.).
 The effects of cyproheptadine pretreatment on insulin release from isolated pancreatic islets
- 357P WAN, BEATRICE Y.C. (introduced by Black, J.W.). Effects of dibutyryl cyclic AMP and phosphodiesterase inhibitors on acid secretion by mouse stomach *in vitro*
- 358P RICHARDSON, P.D.I. The effects of intravenous secretin on the small intestinal vasculature of the cat
- 359P DUNCAN, A.J. & WILSON, W.S. Some preservatives in eyedrop preparations hasten the formation of dryspots in the rabbit cornea
- 360P HOLMES, S.W. & SUGDEN, D. The effect of melatonin on pinealectomy-induced hypertension in the rat
- 361P MELROSE, JOANNE, PALFREYMAN, M.G., POYSER, R.H. & WHITING, R.L. BRL 13776: a novel antihypertensive agent with interesting noradrenaline-depleting properties
- 362P BILSKI, A. & WALE, J. (introduced by Dawes, P.M.). Two types of intrinsic sympathomimetic activity with β -adrenoceptor blocking drugs
- 362P KOLLER, K. (introduced by Jenkinson, D.H.). An interaction between the α and β actions of catecholamines in guinea-pig liver slices
- 363P COLLIER, P.S. & SHANKS, R.G. Alterations to vasodilator effects of isoprenaline in the dog following intra-arterial infusions with isoprenaline, salbutamol and orciprenaline

- 364P BLAKELEY, A.G.H. & SUMMERS, R.J. The effects of AH 5158 on the overflow of transmitter and the uptake of [³H]-(-)-noradrenaline in the cat spleen
- 365P DARGIE, H.J., FRANKLIN, S.S. & REID, J.L. The sympathetic nervous system and renovascular hypertension in the rat
- 366P FINCH, L. & HERSOM, A. Studies on the centrally mediated cardiovascular effects of apomorphine in the anaesthetized rat
- 366P BARASI, S., PARRY, O. & ROBERTS, M.H.T.
 The interpretation of responses of motoneurone field potentials to 5-hydroxytryptamine
- 367P GOODLET, I., MIREYLEES, S.E. & SUGRUE, M.F. The selective inhibition of 5-hydroxy-tryptamine re-uptake by Org 6582
- 368P CURZON, G. & MARSDEN, C.A. Effect of LSD on rat brain 5-hydroxytryptamine metabolism at elevated environmental temperature
- 370P LITTLETON, J.M. & MACLEAN, K.I. (introduced by Brownlee, G.). Alterations in dopamine uptake in rat corpus striatum induced by combinations of stress and Δ^8 -tetrahydrocannabinol (Δ^8 -THC)
- 371P JATON, A.L., LOEW, D.M. & VIGOURET, J.M. CF 25-397 (9, 10-Didehydro-6-methyl-8β-[2-pyridylthiomethyl]ergoline), a new central dopamine receptor antagonist
- 372P FRY, J.P., SHARMAN, D.F. & STEPHENS, D.B. The ontogenesis of cerebral dopamine metabolism in the pig
- 373P DONALDSON, I.M., JENNER, P., MARSDEN, C.D., MILLER, R. & PERINGER, E. Is meto-clopramide a directly acting dopamine receptor antagonist?
- 374P CANDY, J.M. & KEY, B.J. Blockade of the electrocortical changes induced by perfusion of amphetamine in the brain stem reticular formation
- 375P YOUDIM, M.B.H. Monoamine oxidase active site; the binding to and titration of monoamine oxidase with [14C]-selective inhibitors
- 375P HILLIDGE, C.J. & LEES, P. Influence of etorphine acepromazine and diprenorphine on cardiovascular function in ponies

- 376P GRANT, L. & POWIS, G. The effect of inhibitors of alcohol metabolism on the changes in the hepatic microsomal metabolism of foreign compounds produced by a single dose of ethanol in the rat
- 377P ABU-MURAD, C., GRIFFITHS, P.J. & LITTLETON, J.M. (introduced by Brownlee, G.). Catecholamine metabolism and liver dysfunction during induction of ethanol dependence
- 378P FILE, SANDRA E. (introduced by Neal, M.J.). Are central cholinergic pathways involved in the habituation of exploration and distraction?
- 379P AMADUCCI, L., MANTOVANI, P. & PEPEU, G. Effect of some phospholipids on acetylcholine output from the cerebral cortex in the rat
- 380P NAHORSKI, S.R., PATTON, WENDY & ROGERS, K.J. Developmental changes in the sensitivity of neurohormone-stimulated cyclic AMP formation in chick cerebral hemispheres
- 381P ANLEZARK, G.M., MARSDEN, C.D. & MELDRUM, B.S. A primate model of acute dystonic reaction to neuroleptics
- 382P COLLIER, H.O.J. & FRANCIS, D.L. Stereospecific suppression by opiates of the quasimorphine abstinence syndrome elicited by 3-isobutyl-l-methylxanthine (IBMX)
- 382P HOLZBAUER, MARGARETHE. Physiological aspects of the hypnotic properties of steroid hormones.
- 383P ANLEZARK, G.M., HORTON, R.W., MELDRUM, B.S., SAWAYA, M.C.B. & STEPHENSON, J.D. y-Aminobutyric acid metabolism and the anticonvulsant action of ethanolamine-o-sulphate and di-n-propylacetate
- 385P LEWIS, A.J. The assessment of systemically and topically administered anti-inflammatory drugs using u.v. erythema production in the rat
- 386P CUTHBERT, N.J., DINNEEN, L.C., FRANCIS, D.L. & SCHNEIDER, C. A rapid *in vivo* test for dependence potential of analgesic drugs
- 386P HAEUSLER, G. & LEWIS, P.J. Sympathetic nerve recording in the conscious rabbit
- 387P BRADLEY, N.J. & POULTER, L.W. (introduced by Lewis, G.P.). *In vitro* methods of assessing the physiological activation of macrophages *in vivo*

- 388P FRY, J.P., SHARMAN, D.F. & STEPHENS, D.B. The effect of apomorphine on oral behaviour in piglets
- 388P FARRINGTON, HELEN E. & OWEN, D.A.A. Measurement of vascular changes in acute inflammatory responses
- 389P BUSHMAN, J.A., ENDERBY, D.H., FOWLER, K.T. & PAYNE, J.P. The use of a mass spectrometer for the analysis and measurement of anaesthetic vapours
- 390P ENDERBY, D.H., HUGHES, R., PAYNE, J.P. & WORSLEY, R. Assessment of neuromuscular blockade in man by use of tetanic and single twitch contractions of the adductor pollicis muscle
- 391P HUTCHINGS, R.T., LEWIS, G.P., SABIKOWSKI, Z.T. & WESTWICK, J. Measurement of changes in the microvasculature
- 391P NIEDERHAUSER, U. & WHITTLE, B.J.R. A simple perfusion system for the study of histamine release from rat peritoneal mast cells
- 392P ADEBANJO, A.O., AMBACHE, N. & VERNEY, J. The inhibitory transmission to the internal anal sphincter

- 394P EDWARDS, J.H., EVANS ELIZABETH, EVANS, P.H., NICHOLLS, P.J. & RAJAN, K.T. Effect of a purified cotton dust extract on human lung in culture
- 395P DOLPHIN, A.C., ELLIOTT, P.N.C. & JENNER, P. Reduction of locomotor activity in mice by dopamine-β-hydroxylase inhibitors evidence against the involvement of non-specific irritation
- 395P McGRATH, J.C. & MacKENZIE, J.E. A pithed rabbit preparation for stimulation of different segments of the autonomic outflow
- 396P BAKER, J.B.E. The episcope for large screen projection of tracings on opaque media during their recording for demonstrations
- 396P PECK, M.J. & WILLIAMS, T.J. (introduced by Lewis, G.P.). Measurement of inflammatory exudation and local blood flow changes in rabbit skin, using [131I]-albumin and 133Xe
- 396P LEWIS, G.P., PECK, M.J., WILLIAMS, T.J. & YOUNG, BEVERLEY A. Measurement of blood flow in rabbit skin homografts and autografts using a ¹³³Xe-clearance technique
- 396P McCALL ELAINE & YOULTEN, L.J.F.
 Prostaglandin production by rat polymorphonuclear leucocytes

VOLUME 56 NUMBER 4 APRIL 1976

- 399 SMITH, D.F. Lithium orotate, carbonate and chloride: pharmacokinetics, polydipsia and polyuria in rats.
- 403 KAROUM, F. MAJCHROWICZ, E. & WYATT, R. Brain concentrations of biogenic amine metabolites in acutely treated and ethanol-dependent rats.
- 413 EGAN, SANDRA M., GRAHAM, J.D.P. & LEWIS, M.J. The uptake of tritiated Δ^1 -tetrahydrocannabinol by the isolated vas deferens of the rat.
- 417 DRUMMOND, A.H. & GORDON, J.L. Uptake of 5-hydroxytryptamine by rat blood platelets and its inhibition by adenosine 5'-diphosphate.

- 423 MARCHAND, C. & NADEAU, D. The distribution and kinetics of sulphacetamide in leukaemic mice.
- 431 CARRUBA, M.O., GROPPETTI, A., MANTEGAZZA, P., VICENTINI, L. & ZAMBOTTI, F. Effects of mazindol, a non-phenylethylamine anorexigenic agent, on biogenic amine levels and turnover rate.
- 437 DUTTA, S., MARKS, B.H. & STEPHEN, P.M. The uptake and subcellular distribution of radio-labelled metabolites of digitoxin in the guinea-pig isolated perfused heart.
- 443 DOW, R.C. & LASZLO, I. Uptake of 5-hydroxytryptamine in different parts of the brain of the rabbit after intraventricular injection.

- 449 CARRIER, O., JR., & HESTER, R.K. The relationship between calcium and increased sensitivity of rabbit aortae four hours after reserpine.
- 457 MICHELSON, M.J. & SHELKOVNIKOV, S.A. Isotonic and isometric responses of different tonic muscles to agonists and antagonists.
- 469 FERREIRA, S.H., HERMAN, A.G. & VANE, J.R. Prostaglandin production by rabbit isolated jejunum and its relationship to the inherent tone of the preparation.
- 479 MAGOS, L. The effects of dimercaptosuccinic acid on the excretion and distribution of mercury in rats and mice treated with mercuric chloride and methylmercury chloride.

485 GRAY, J.A., LÜLLMANN, H., MITCHELSON, F. & REIL, G.-H. Stereoselective binding in cardiac tissue of the enantiomers of benzetimide, an antimuscarinic drug.

SHORT COMMUNICATIONS

- 491 KUMAR, A., SHARMA, H.L. & SHARMA, V.N. Effect of SAS (A new 10-N-acylaminophenothiazine) on gastric secretion and ulceration in rats.
- 494 CHIPMAN, P. & GLOVER, W.E. Histamine H₂-receptors in the human peripheral circulation.