VOLUME 60(1)

MAY 1977

British Journal of Pharmacology

- 3 AGARWAL, R.A., LAPIERRE, Y.D., RASTOGI, R.B. & SINGHAL, R.L. Alterations in brain 5-hydroxytryptamine metabolism during the 'withdrawal' phase after chronic treatment with diazepam and bromazepam.
- BIANCHETTI, G., BONACCORSI, AURORA, CHIODAROLI, A., FRANCO, R., GARATTINI, S., GOMENI, R. & MORSELLI, P.L. Plasma concentrations and cardiotoxic effects of desipramine and protriptyline in the rat.
 - BONACCORSI, AURORA, FRANCO, R., GARATTINI, S., MORSELLI, P.L. & PITA, E. Plasma nortriptyline and cardiac responses in young and old rats.
 - BARASI, S. & ROBERTS, M.H.T. Responses of motoneurones to electrophoretically applied dopamine.
 - HAYASHI, S. & TODA, N. Inhibition by Cd²⁺, verapamil and papaverine of Ca²⁺-induced contractions in isolated cerebral and peripheral arteries of the dog.
 - MORRISON, J.D. The generation of nerve and muscle repetitive activity in the rat phrenic nervediaphragm preparation following inhibition of cholinesterase by ecothiopate.
- 55 MESSIHA, F.S. Possible mechanism of adverse reaction following levodopa plus benserazide treatment.
- 9 ROSENTHAL, R.N. & SLOTKIN, T.A. Development of nicotinic responses in the rat adrenal medulla and long-term effects of neonatal nicotine administration.

- 65 FENNESSY, M.R. & TAYLOR, D.A. The effect of Δ^9 -tetrahydrocannabinol on body temperature and brain amine concentrations in the rat at different ambient temperatures.
- 73 VANDONGEN, R. Intrarenal stimulation of renin secretion by frusemide in the isolated kidney of the rat.
- 77 BHARGAVA, K.P., KULSHRESTHA, V.K. & SRIVASTAVA, Y.P. Central mechanism of vasopressin-induced changes in antidiuretic hormone release.
- 83 PAUL, C.J. & WHITEHOUSE, L.W. Metabolic basis for the supra-additive effect of the ethanol-diazepam combination in mice.
- 91 DOXEY, J.C., SMITH, C.F.C. & WALKER, JULIE M. Selectivity of blocking agents for preand postsynaptic α-adrenoceptors.
- 97 KIRSTEN, E.B. & LUSTIG, KAREN C. Prenylamine-induced contracture of frog skeletal muscle.
- 107 IMMS, F.J., NEAME, R.L.B. & POWIS, D.A. Responses of the cardiovascular system of the rat to α and β -adrenoceptor agonists.
- 115 IMMS, F.J., NEAME, R.L.B. & POWIS, D.A. Responses of the cardiovascular system of the rat to noradrenaline infusions and their modification by adrenoceptor blocking agents.
- 123 RICHARDSON, P.D.I. & WITHRINGTON, P.G. A comparison of the effects of bradykinin, 5-hydroxytryptamine and histamine on the hepatic arterial and portal venous vascular beds of the dog: histamine H₁ and H₂-receptor populations.

- 135 EAKINS, K.E. & KULKARNI, P.S. Selective inhibitory actions of sodium-p-benzyl-4-[1-oxo-2-(4-chlorobenzyl)-3-phenyl propyl] phenyl phosphonate (N-0164) and indomethacin on the biosynthesis of prostaglandins and thromboxanes from arachidonic acid.
- 141 GIBSON, A. & JAMES, T.A. The nature of potassium chloride-induced relaxations of the rat anococcygeus muscle.
- 147 IWATSUKI, N., KATO, K. & NISHIYAMA, A. The effects of gastrin and gastrin analogues on pancreatic acinar cell membrane potential and resistance.
- 155 MACKENZIE, J.E. & PARRATT, J.R. Comparative effects of glyceryl trinitrate on venous and arterial smooth muscle *in vitro*; relevance to antianginal activity.

British Journal of Pharmacology

CONTENTS

VOLUME 60 NUMBER 1 MAY 1977

- 3 AGARWAL, R.A., LAPIERRE, Y.D., RASTOGI, R.B. & SINGHAL, R.L. Alterations in brain 5-hydroxytryptamine metabolism during the 'withdrawal' phase after chronic treatment with diazepam and bromazepam.
- 11 BIANCHETTI, G., BONACCORSI, AURORA, CHIODAROLI, A., FRANCO, R., GARATTINI, S., GOMENI, R. & MORSELLI, P.L. Plasma concentrations and cardiotoxic effects of desipramine and protriptyline in the rat.
- 21 BONACCORSI, AURORA, FRANCO, R., GARATTINI, S., MORSELLI, P.L. & PITA, E. Plasma nortriptyline and cardiac responses in young and old rats.
- 29 BARASI, S. & ROBERTS, M.H.T. Responses of motoneurones to electrophoretically applied dopamine.
- 35 HAYASHI, S. & TODA, N. Inhibition by Cd²⁺, verapamil and papaverine of Ca²⁺-induced contractions in isolated cerebral and peripheral arteries of the dog.
- 45 MORRISON, J.D. The generation of nerve and muscle repetitive activity in the rat phrenic nervediaphragm preparation following inhibition of cholinesterase by ecothiopate.
- 55 MESSIHA, F.S. Possible mechanism of adverse reaction following levodopa plus benserazide treatment.
- 59 ROSENTHAL, R.N. & SLOTKIN, T.A. Development of nicotinic responses in the rat adrenal medulla and long-term effects of neonatal nicotine administration.
- 65 FENNESSY, M.R. & TAYLOR, D.A. The effect of Δ^9 -tetrahydrocannabinol on body temperature and brain amine concentrations in the rat at different ambient temperatures.
- 73 VANDONGEN, R. Intrarenal stimulation of renin secretion by frusemide in the isolated kidney of the rat.

- 77 BHARGAVA, K.P., KULSHRESTHA, V.K. & SRIVASTAVA, Y.P. Central mechanism of vasopressin-induced changes in antidiuretic hormone release.
- 83 PAUL, C.J. & WHITEHOUSE, L.W. Metabolic basis for the supra-additive effect of the ethanol-diazepam combination in mice
- 91 DOXEY, J.C., SMITH, C.F.C. & WALKER, JULIE M. Selectivity of blocking agents for preand postsynaptic α -adrenoceptors.
- 97 KIRSTEN, E.B. & LUSTIG, KAREN C. Prenylamine-induced contracture of frog skeletal muscle.
- 107 IMMS, F.J., NEAME, R.L.B. & POWIS, D.A. Responses of the cardiovascular system of the rat to α and β -adrenoceptor agonists.
- 115 IMMS, F.J., NEAME, R.L.B. & POWIS, D.A. Responses of the cardiovascular system of the rat to noradrenaline infusions and their modification by adrenoceptor blocking agents.
- 123 RICHARDSON, P.D.I. & WITHRINGTON, P.G. A comparison of the effects of bradykinin, 5-hydroxytryptamine and histamine on the hepatic arterial and portal venous vascular beds of the dog: histamine H₁ and H₂-receptor populations.
- 135 EAKINS, K.E. & KULKARNI, P.S. Selective inhibitory actions of sodium-p-benzyl-4-[1-oxo-2-(4-chlorobenzyl)-3-phenyl propyl] phenyl phosphonate (N-0164) and indomethacin on the biosynthesis of prostaglandins and thromboxanes from arachidonic acid.
- 141 GIBSON, A. & JAMES, T.A. The nature of potassium chloride-induced relaxations of the rat anococcy eus muscle.
- 147 IWATSUKI, N., KATO, K. & NISHIYAMA, A. The effects of gastrin and gastrin analogues on pancreatic acinar cell membrane potential and resistance.
- 155 MACKENZIE, J.E. & PARRATT, J.R. Comparative effects of glyceryl trinitrate on venous and arterial smooth muscle *in vitro*; relevance to antianginal activity.

VOLUME 60 NUMBER 2 JUNE 1977

- 165 FAMAEY, J.P., FONTAINE, J. & REUSE, J. The effects of non-steroidal anti-inflammatory drugs on cholinergic and histamine-induced contractions of guinea-pig isolated ileum
- 173 JOHNSTON, BARBARA M. & OWEN, D.A.A.
 Tissue blood flow and distribution of cardiac output in cats: changes caused by intravenous infusions of histamine and histamine receptor agonists
- 181 BRAVO, MARÍA E., MONCKEBBERG, F. & URBINA, J. The effect of sulpamethoxy-pyridazine on liver and plasma levels of vitamin A in rats
- 185 HAAS, H.L. & RYALL, R.W. An excitatory action of iontophoretically administered lithium on mammalian central neurones
- 197 DOWD, H., KEH, G.S. & RAPER, C. Catecholsubstituted phenoxypropanolamines: adrenoceptor activity in the anaesthetized cat
- 205 DEPORTER, D.A. Cyclic adenosine 3',5'-monophosphate and leucocyte chemotaxis in vivo
- 209 PARRATT, J.R. & STURGESS, R.M. The possible roles of histamine, 5-hydroxytryptamine and prostaglandin F_{2a} as mediators of the acute pulmonary effects of endotoxin

- 221 OHGA, A. & TANEIKE, T. Dissimilarity between the responses to adenosine triphosphate or its related compounds and non-adrenergic inhibitory nerve stimulation in the longitudinal smooth muscle of pig stomach
- 233 FERRY, C.B. & GEH, SOO LIN. An electrophysiological study of the action of crude Enhydrina schistosa venom
- 239 RICHARDSON, P.D.I. & WITHRINGTON, P.G. The role of β -adrenoceptors in the responses of the hepatic arterial vascular bed of the dog to phenylephrine, isoprenaline, noradrenaline and adrenaline
- 251 GRENNAN, D.M., MITCHELL, W., MILLER, W. & ZEITLIN, I.J. The effects of prostaglandin E₁, bradykinin and histamine on canine synovial vascular permeability
- 255 O'DONNELL, STELLA R. & WANSTALL, JANET C. The use of functional antagonism to determine whether β-adrenoceptor agonists must have a lower efficacy than isoprenaline to be trachea-atria selective *in vitro* in guinea-pigs
- 263 PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY, Liverpool, 30th-31st March, 1977

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY Liverpool, 30th-31st March, 1977

- 263P WADDINGTON, J.L. (introduced by Crow, T.J.). GABA-like properties of flurazepam and baclofen suggested by rotational behaviour following unilateral intranigral injection: a comparison with the GABA agonist muscimol
- 264P HUOT, SYLVIE, LIPPERT, B., PALFREYMAN, M.G. & SCHECHTER, P.J. Inhibition of dopaminergic activity in the extrapyramidal and limbic systems by γ -acetylenic GABA
- 265P CROW, T.J. & WADDINGTON, J.L. Rotational responses to the putative serotonin agonist 5MeODMT following unilateral 5,6-DHT lesions of the median forebrain bundle: a possible role for 5-HT in the control of rotational behaviour

- 266P COSTALL, B., FORTUNE, D.H. & NAYLOR, R.J. 5-HT antagonists inhibit neuroleptic and morphine antagonism of the hyperactivity induced by DA from the nucleus accumbens
- 267P CARTER, C.J. & PYCOCK, C.J. Possible importance of 5-hydroxytryptamine in neuroleptic-induced catalepsy in rats
- 268P CLOW, A., ELLIOTT, P.N.C., JENNER, P., MARSDEN, C.D. & PYCOCK, C. Interactions of substituted benzamide drugs with cerebral dopamine pathways
- 269P KOC, BARBARA A. & MARLEY, E. Antipodal central effects of dopamine and apomorphine

- 270P EMSON, P.C. & KOOB, G. (introduced by Iversen, L.L.). Origin of dopaminergic afferents to the rat frontal cortex
- 271P KEMP, J.A., WALKER, R.J. & WOODRUFF, G.N. The actions of cholinomimetics and cate-cholamines on rat substantia nigra neurones
- 272P GENT, J.P. SMYTH, D.G., SNELL, C.R. & WOLSTENCROFT, J.H. Effects of C-fragment on brain stem neurones in the cat
- 273P FOSTER, A.C. & ROBERTS, P.J. Glutamic acid: High-affinity binding to cerebellar membranes
- 273P EVANS, R.H. Effects of central depressant drugs on the isolated hemisected spinal cord of the immature rat
- 274P HILL, R.G., MITCHELL, J.F. & ROBERTS, FIONA. The effect of 40 mm potassium and electrical simulation on the efflux of [3H]-GABA from rat dorsal medulla *in vivo* and *in vitro*
- 275P BOWERY, N.G., COLLINS, J.F., HILL, R.G. & PEARSON, S. t-Butyl bicyclo phosphate: a convulsant and GABA antagonist more potent than bicuculline
- 276P KUMAR, R., MUMFORD, L. & TEIXEIRA, A.R. Influencing morphine self-administration in dependent rats
- 277P BLOXAM, D.L., CURZON, G., KANTAMANENI, B.D. & TRICKLEBANK, M.D. Effects of tryptophan and portocaval anastomosis on activity and brain tryptophan metabolism
- 278P BLUMGART, L.H., HARPER, A.M., LEIBERMAN, D.P. & MATHIE, R.T. (introduced by Powis, G.). Liver blood flow measurement with 85krypton clearance by portal venous and hepatic arterial routes of injection
- 279P BACK, D.J., BRECKENRIDGE, A.M., GAY, FRANCESCA E., ORME, M.L'E., ROWE, P.H. & SMITH, EILEEN. The pharmacokinetics of norethisterone in the rabbit and rat after systemic and oral administration: Effect of phenobarbitone
- 280P BAILLIE, T.A., BOOBIS, A.R., DAVIES, D.S., JONES, D.H., MURRARY, S. & REID, J.L. Studies on the metabolic fate of 3-methoxy-4-hydroxyphenylethylene glycol (MHPG) in man
- 280P GOTTFRIED, S., PARKE, D.V., SACRA, P.J. & THORNTON, P.C. Studies of the interaction of carbenoxolone sodium and warfarin sodium in vivo

- 281P HUSAIN, A. & JONES, C.W. (introduced by Tomlinson, D.R.). Rat brain iso-renin
- 282P KEENAN, A.K. (introduced by Cannon, P.J.). The role of transmembrane calcium flux in the adrenergic response of the isolated frog heart
- 283P RICHARDSON, P.D.I. & WITHRINGTON, P.G. Responses of the sympathetically-innervated hepatic arterial vascular bed of the dog to intraarterial injections of dopamine
- 284P ALABASTER, C.T., BLACKBURN, K.J., JOICE, J.R., MASSINGHAM, R. & SCHOLFIELD, P.C. UK-14,257, a novel orally-active cardiac stimulant
- 285P OWEN, D.A.A. Histamine-induced changes in heart rate in anaesthetized cats
- 286P BACQ, Z.M., BLAKELEY, A.G.H. & SUMMERS, R.J. The effects of L9394 on adrenergic transmission in the cat spleen
- 287P BENEDICT, C.R., FILLENZ, MARIANNE, STANFORD, CLARE & VALERO, INMACULATA. Plasma noradrenaline levels as a measure of noradrenaline release
- 287P BROWN, R.A., SOLCA, ANNE M. & WILSON, J. Effects of uptake blockade on cardiac responses of anaesthetized dogs to isoprenaline, noradrenaline, and sympathetic nerve stimulation
- 288P CAVERO, I., FÉNARD, S., FINCH, L., LEFEVRE, F. & ROACH, A. Studies on the rebound hypertension after clonidine withdrawal in conscious hypertensive cats, rats, and dogs
- 289P CONWAY, F.J. & HATTON, R. The effects of β -adrenoceptor blockade on the development of deoxycorticosterone acetate (DOCA) hypertension in the dog
- 290P BONTA, I.L., BULT, H. & PARNHAM, M.J. The presence of prostaglandin-like material in carrageenin induced rat hind paw inflammation
- 291P WILLIAMS, T.J. (introduced by Lewis, G.P.).
 Potentiation of bradykinin-induced exudation
 following intradermal injection of particulate or
 colloidal materials in the rabbit: evidence for
 prostaglandin release and action in inflammation
- 292P LEFORT, J. & VARGAFTIG, B.B. Salicylic acid prevents inhibition by aspirin of arachidonic acid-induced hypotension, bronchoconstriction and thrombocytopenia

- 293P MacINTYRE, D.E. Selective inhibition of platelet responses to bisenoic prostaglandins
- 294P BAKHLE, Y.S. Some characteristics of the metabolism of β -phenylethylamine in rat isolated lung
- 295P CALDWELL, J., CROFT, JANE E., SMITH, R.L. & SNEDDEN, W. The metabolic fate of [14C]-phenobarbitone in the rat and the effect of chronic administration and dose size
- 296P LIVINGSTON, A. & WATERMAN, A.E. Self induction of metabolism by ketamine in the rat
- 297P JONDORF, W.R. & MOSS, M.S. On the detectability of anabolic steroids in horse urine
- 298P BUCKINGHAM, JULIA C. & HODGES, J.R. Hypothalamic polypeptides and analogues on corticotrophin production by rat adenohypophysial tissue *in vitro*
- 299P LEWIS, D.M., PARDOE, MARGARET J. & WEBB, SANDRA N. Effect of adrenaline on intracellularly recorded action potentials of mammalian skeletal muscle
- 300P LAMBERT, M.B.T., MOLLOY, T. & WILSON, C.W.M. The effect of aspirin on the protein binding of ascorbic acid
- 300P GILBERT, J.C. & WYLLIE, M.G. Synaptosome transmitter release and ATPase activity
- 301P BURGESS, E.J. & PRINCE, A.K. (introduced by Brownlee, G.). Effect of reserpine on choline acetyltransferase and high affinity cholein uptake in the rat brain
- 302P McLEAN, W.G. & SJÖSTRAND, J. The effects of chloroquine and other retinotoxic drugs on axonal transport of proteins in rabbit vagus nerve
- 303P TOMLINSON, D.R. An examination of the action of tetrabenazine on peripheral noradrenergic neurones
- 304P MARSHALL, I., NASMYTH, P.A. & SHEPPERSON, N.B. The influence of presynaptic α-adrenoceptors on the overflow of noradrenaline in the stimulated mouse vas deferens
- 305P McGRATH, J.C. & OLVERMAN, H.J. Release of [3H]-noradrenaline by field stimulation and by drugs from the anococcygeus muscle

- 306P CALLINGHAM, B.A. & FOWLER, C.J. Monoamine oxidation in tissues of the developing chick
- 307P CURZON, G. & MARSDEN, C.A. Role of tryptamine in the behavioural changes caused by a monoamine oxidase inhibitor and L-tryptophan
- 308P GEORGE, A.J. Monoamine oxidase activity at different levels of rat spinal cord
- 309P FLUDDER, JOAN M. & TONGE, SALLY R. (introduced by Leonard, B.E.). Modification by ethinyloestradiol and progesterone of the effects of imipramine on 5-hydroxytryptamine metabolism in discrete areas of rat brain
- 310P KENDALL, D.A. & TONGE, SALLY R. (introduced by Leonard, B.E.). Effects of testosterone and ethinyloestradiol on the synthesis and uptake of noradrenaline and 5-hydroxy-tryptamine in rat hindbrain: evidence for a presynaptic regulation of monoamine synthesis?
- 312P GILBERT, J.C. & WYLLIE, M.G. Studies of the actions of drugs affecting the central nervous system and of the relationship between nerve terminal ATPase activities and neurotransmitter release
- 312P FRANCIS, G.R. & WHITING, R.L. On-line computation of peripheral resistance and stroke volume in the conscious cat obtained by the use of a chronically-implanted electromagnetic flow transducer
- 314P WILSON, H. & YATES, M.S. The effects of the α -adrenoceptor antagonist phentolamine on the responses of the nasal vasculature and nictitating membrane of the cat to cervical sympathetic stimulation
- 315P JONES, R.L. & WILSON, N.H. Prostaglandins D and F with highly selective agonist actions
- 316P ABDUL-CADER, Z. CHARNOCK, J., FIELD, JOANNA L., PARRY, J. & NOWELL, P.T. Inhibition of Na⁺ + K⁺-ATPase by quaternary ammonium compounds and stimulation of acetylcholine release
- 317P ADOLFS, M.J.P., PARNHAM, M.J., VINCENT, J.E. & ZIJLSTRA, F.J. Detection of small amounts of prostaglandin (PG)-like material and rabbit aorta contracting substance (RCS) released into the blood of the rat
- 318P PEARSON, S. (introduced by Hill, R.G.). A versatile device which resets drifting baselines

319P ORTON, T.C. & LOWERY, C. (introduced by Lindup, W.E.). Irreversible protein binding of [14C]-practolol metabolite(s) to hamster liver

microsomes

320P CROW, T.J. & DEAKIN, J.F.W. Do 5-HT neurones support self-stimulation?

VOLUME 60 NUMBER 3 JULY 1977

- 323 OKA, T. Role of 5-hydroxytryptamine in morphine-, pethidine-, and methadone-induced hypothermia in rats at low ambient and room temperature
- 331 AKASU, T. & KOKETSU, K. Effects of dibutyryl cyclic adenosine 3',5'-monophosphate and theophylline on the bullfrog sympathetic ganglion cells
- 337 BROWN, F.F. & GOODFORD, P.J. The interaction of some *bis*-arylhydroxysulphonic acids with a site of known structure in human haemoglobin
- 343 GREEN, A.R., MITCHELL, B.D., TORDOFF, ANN F.C. & YOUDIM, M.B.H. Evidence for dopamine deamination by both type A and type B monoamine oxidase in rat brain in vivo and for the degree of inhibition of enzyme necessary for increased functional activity of dopamine and 5-hydroxytryptamine
- 351 GARDINER, J.E. & GWEE, M.C.E. Effect of two hemicholiniums on the disposition and distribution of endogenous free choline in anaesthetized rabbits
- 357 IMBS, J.L., LECLERC, G., MANN, A., MIESCH, F., SCHWARTZ, J., VELLY, J. & WERMUTH, C.G. A potent new β_2 -adrenoceptor blocking agent
- 363 HUANG, JEN-TZAW & WAJDA, ISABEL J. The effects of morphine on the accumulation of homovanillic and 5-hydroxyindoleacetic acids in the choroid plexus of rats
- 369 McLEAN, A.J. Anaphylactic reactions to endotoxin in guinea-pig tissues: relationship to endotoxin toxicity
- 375 MUIR, C.K. & SCOTT, N.C. Comparison of the effects of caffeine and a 2-alkyl-1,2,3-benzo-triazinium iodide on frog rectus abdominis
- CONDORELLI, M., RASETTI, G., RENGO, F.,
 RICCIARDELLI, B., SACCÀ, L., TRIMARCO,
 B. & VOLPE, M. Effects of guanethidine on histamine release during reflex vasodilatation in the dog

- 385 ISMAHAN, G. PARVEZ, H. PARVEZ, S. & YOUDIM, M.B.H. Comparative effects of hypophysectomy and adrenalectomy upon plasma and adrenal monoamines in pregnant and non-pregnant rats
- 393 CHAMBERS, D.M. & JEFFERSON, G.C. Some observations on the mechanism of benzo-diazepine-barbiturate interactions in the mouse
- 401 CURZON, G. & FERNANDO, J.C.R. Drugs altering insulin secretion: effects on plasma and brain concentrations of aromatic amino acids and on brain 5-hydroxytryptamine turnover
- 409 DOGGETT, N.S. & JAWAHARLAL, K. Some observations on the anorectic activity of prostaglandin $F_{2\alpha}$
- 417 DOGGETT, N.S. & JAWAHARLAL, K. Anorectic activity of prostaglandin precursors
- 425 McDOUGALL, A.N., MAULE WALKER, FELICITY M. & WATSON, J. The effect of cloprostenol on human luteal steroid and prostaglandin secretion *in vitro*
- 433 BERDEAUX, A., BOISSIER, J.R. & GIUDICELLI, J.F. Effects of atenolol on regional myocardial blood flow and ST segment elevation in the canine myocardium
- DALE, M. MAUREEN. The effects of metiamide on cell-mediated immune reactions in the guineapig
- 445 FELDBERG, W. & SMYTH, D.G. C-fragment of lipotropin—an endogenous potent analgesic peptide
- 455 WHITTLE, B.J.R. Mechanisms underlying gastric mucosal damage induced by indomethacin and bile-salts, and the actions of prostaglandins
- 461 BUCKINGHAM, R.E., HAMILTON, T.C. & ROBSON, D. Studies on the cardiovascular effects of pindolol in DOCA/saline hypertensive rats

- 471 AL-KAISI, NAHLA, PARRATT, J.R. SIDDIQUI, H.H. & ZEITLIN, I.J. Feline endotoxin shock: effects of methylprednisolone on kininogen-depletion, on the pulmonary circulation and on survival
- 477 BOONYAVIROJ, PUNYA, FEUERSTEIN, GIORA & GUTMAN, YEHUDA. Reversal of prostaglandin E₂ effect on adrenal catecholamine release after hypophysectomy

VOLUME 60 NUMBER 4 AUGUST 1977

- 481 LANGER, S.Z. Presynaptic receptors and their role in the regulation of transmitter release
- 499 BENNETT, A. & CURWAIN, B.P. Effects of aspirin-like drugs on canine gastric mucosal blood flow and acid secretion
- 505 CLAASSEN, V., DAVIES, J.E., HERTTING, G. & PLACHETA, P. Fluvoxamine, a specific 5-hydroxytryptamine uptake inhibitor
- 517 BLOXHAM, P.A. & PUGH, D.M. Tamoxifen inhibition of an *in vitro* Oestradiol-induced surface coat change on mouse blastocysts
- 521 VAN RIEZEN, H., SCHNIEDEN, H. & WREN, ALLISON F. Olfactory bulb ablation in the rat: behavioural changes and their reversal by antidepressant drugs
- 529 HONDA, F., KATSUKI, S., MIYAHARA, J.T. & SHIBATA, S. Effect of isoprenaline and phenylephrine on the adenosine 3',5'-monophosphate content and mechanical activity of cold-stored and fresh taenia caecum from the guinea-pig
- 537 COWAN, A., LEWIS, J.W. & MACFARLANE, I.R. Agonist and antagonist properties of buprenorphine, a new antinociceptive agent
- 547 COWAN, A., DOXEY, J.C. & HARRY, E.J.R. The animal pharmacology of buprenorphine, an oripavine analgesic agent
- 555 MILLER, R.D. & RODERICK, LAURA. Ligated renal pedicles and duration of action of neostigmine and pyridostigmine

- 559 PERTWEE, R.G. & TAVENDALE, R. Effects of Δ^9 -tetrahydrocannabinol on the rates of oxygen consumption of mice
- 569 COOLING, M.J. & SIM, M.F. An investigation of the sex difference in the diuretic response to ethacrynic acid in mice
- 573 JOHNS, E.J., MURDOCK, R. & SINGER, BERTHA. The effect of angiotensin I converting enzyme inhibitor (SQ 20881) on the release of prostaglandins by rabbit kidney, in vivo
- 583 FRANCIS, D., GREAVES, M.W. & YAMAMOTO, S. Enzymatic histamine degradation by human skin
- 589 ALEXANDER, F. The effect of diuretics on the faecal excretion of water and electrolytes in horses
- 595 LEWIS, M.J. The uptake and overflow of radiolabelled β -adrenoceptor blocking agents by the isolated vas deferens of the rat
- 601 VELLUCCI, SANDRA V. The effects of ether stress and betamethasone treatment on the concentrations of noradrenaline and dopamine in various regions of the rat brain

SHORT COMMUNICATION

607 CHO, C.H., DAI, S. & OGLE, C.W. The effect of zinc on anaphylaxis *in vivo* in the guinea-pig