

BRITISH JOURNAL OF PHARMACOLOGY

Contents

Page

Obituary

- 1 BAIN, WILLIAM ALEXANDER

Systematic Pharmacology

- 13 GRUNDY, H. F. and TRITTHART, H. Effects of pethidine and nalorphine on the mechanical and electrical activities of mammalian isolated ventricular muscle. (SP1)
 23 FRANK, G. B. and OHTA, M. Blockade of the reticulospinal inhibitory pathway by nitrous oxide and tetrodotoxin. (SP2)
 32 MODIGH, K. and SVENSSON, T. H. On the role of central nervous system catecholamines and 5-hydroxytryptamine in the nialamide-induced behavioural syndrome. (SP2)
 46 BOND, VALERIE J., SHILLITO, ELIZABETH E. and VOGT, MARTHE. Influence of age and of testosterone on the response of male rats to parachlorophenylalanine. (SP2)
 56 CHURCH, M. K., COLLIER, H. O. J. and JAMES, G. W. L. The inhibition by dexamethasone and disodium cromoglycate of anaphylactic bronchoconstriction in the rat. (SP3, AP2)
 66 BENZ, L., ECKSTEIN, B., MATTHEWS, E. K. and WILLIAMS, J. A. Control of pancreatic amylase release *in vitro*: effects of ions, cyclic AMP, and colchicine. (SP3, M)

Autopharmacology

- 78 LEES, G. M. and NISHI, S. Analysis of the mechanism of action of some ganglion-blocking drugs in the rabbit superior cervical ganglion. (AP1, DM1)
 89 GAGNON, D. J. and SIROIS, P. The rat isolated colon as a specific assay organ for angiotensin. (AP2)
 94 JOHANSSON, IRENE, LUNDELL, L. and SVENSSON, S. E. Inhibitory and stimulatory effects of secretin on gastric secretion in conscious rats. (AP3)

Pharmacokinetics

- 101 BUSTOS, G. and ROTH, R. H. Release of monoamines from the striatum and hypothalamus: effect of γ -hydroxybutyrate. (PK3, DM1)

Drug Mechanisms

- 116 BOND, P. A., JENNER, F. A., LEE, C. R., LENTON, ELIZABETH, POLLITT, R. J. and SAMPSON, GWYNETH A. The effect of lithium salts on the urinary excretion of α -oxoglutarate in man. (DM1)
 124 CARROLL, BERNARD J. and SHARP, PETER T. Monoamine mediation of the morphine-induced activation of mice. (DM1, DM2, PP)
 140 McCULLOCH, M. W. and STORY, D. F. Antagonism of noradrenaline and histamine by desipramine in the isolated artery of the rabbit ear. (DM2, AP1)

Contents—continued

Psychopharmacology

- 151 MORRISON, CATHLEEN F. and STEPHENSON, JANE A. The occurrence of tolerance to a central depressant effect of nicotine. (PP, DM2)

Miscellaneous

- 157 EISEN, V. and LOVEDAY, C. Activation of arginine and tyrosine esterase in serum from patients with hereditary angio-oedema. (M, AP2)

SHORT COMMUNICATIONS

- 167 GARCÍA DE JALÓN, P. D., MORATINOS, J. P. and SERRANO, J. S. Experimentally induced automatism in rat isolated ventricle. (SP1)
170 DANHOF, I. E. and GEUMEI, AIDA. Effect of propranolol on gastric acid secretion in rats. (AP1, SP3)
172 GREAVES, M. W. and McDONALD-GIBSON, WENDY. Prostaglandin biosynthesis by human skin and its inhibition by corticosteroids. (AP2)

Systematic Pharmacology

Cardiovascular system SP1
Central nervous system SP2
Other physiological systems SP3

Pharmacokinetics

Storage, distribution, fate PK1
Synthesis, metabolism PK2
Uptake, release PK3

Clinical Pharmacology, Experimental

Therapy CP
Chemotherapy CT
Miscellaneous M

Autopharmacology

Adrenergic, cholinergic transmission AP1
Histamine, kinins, prostaglandins, etc. AP2
Hormones AP3

Drug Mechanisms

Molecular, cellular, biochemical, biophysical DM1
Receptors, antagonism, potentiation, tolerance DM2

Pharmacometrics PM

Psychopharmacology PP
Toxicology TX

CONTENTS

VOLUME 46 No. 1 SEPTEMBER 1972

Obituary

- 1 BAIN, WILLIAM ALEXANDER

Systematic Pharmacology

- 13 GRUNDY, H. F. and TRITTHART, H. Effects of pethidine and nalorphine on the mechanical and electrical activities of mammalian isolated ventricular muscle. (SP1)
23 FRANK, G. B. and OHTA, M. Blockade of the reticulospinal inhibitory pathway by nitrous oxide and tetrodotoxin. (SP2)
32 MODIGH, K. and SVENSSON, T. H. On the role of central nervous system catecholamines and 5-hydroxytryptamine in the nialamide-induced behavioural syndrome. (SP2)
46 BOND, VALERIE J., SHILLITO, ELIZABETH E. and VOGT, MARTHE. Influence of age and of testosterone on the response of male rats to parachlorophenylalanine. (SP2)
56 CHURCH, M. K., COLLIER, H. O. J. and JAMES, G. W. L. The inhibition by dexamethasone and disodium cromoglycate of anaphylactic bronchoconstriction in the rat. (SP3, AP2)
66 BENZ, L., ECKSTEIN, B., MATTHEWS, E. K. and WILLIAMS, J. A. Control of pancreatic amylase release *in vitro*: effects of ions, cyclic AMP, and colchicine. (SP3, M)

Autopharmacology

- 78 LEES, G. M. and NISHI, S. Analysis of the mechanism of action of some ganglion-blocking drugs in the rabbit superior cervical ganglion. (AP1, DM1)
89 GAGNON, D. J. and SIROIS, P. The rat isolated colon as a specific assay organ for angiotensin (AP2)
94 JOHANSSON, IRENE, LUNDELL, L. and SVENSSON, S. E. Inhibitory and stimulatory effects of secretin on gastric secretion in conscious rats. (AP3)

Pharmacokinetics

- 101 BUSTOS, G. and ROTH, R. H. Release of monoamines from the striatum and hypothalamus: effect of γ -hydroxybutyrate. (PK3, DM1)

Drug Mechanisms

- 116 BOND, P. A., JENNER, F. A., LEE, C. R., LENTON, ELIZABETH, POLLITT, R. J. and SAMPSON, GWYNETH A. The effect of lithium salts on the urinary excretion of α -oxoglutarate in man. (DM1)
124 CARROLL, BERNARD J. and SHARP, PETER T. Monoamine mediation of the morphine-induced activation of mice. (DM1, DM2, PP)
140 McCULLOCH, M. W. and STORY, D. F. Antagonism of noradrenaline and histamine by desipramine in the isolated artery of the rabbit ear. (DM2, AP1)

Psychopharmacology

- 151 MORRISON, CATHLEEN F. and STEPHENSON, JANE A. The occurrence of tolerance to a central depressant effect of nicotine. (PP, DM2)

Miscellaneous

- 157 EISEN, V. and LOVEDAY, C. Activation of arginine and tyrosine esterase in serum from patients with hereditary angio-oedema. (M, AP2)

SHORT COMMUNICATIONS

- 167 GARCÍA DE JALÓN, P. D., MORATINOS, J. P. and SERRANO, J. S. Experimentally induced automatism in rat isolated ventricle. (SP1)
170 DANHOF, I. E. and GEUMEI, AIDA. Effect of propranolol on gastric acid secretion in rats. (AP1, SP3)
172 GREAVES, M. W. and McDONALD-GIBSON, WENDY. Prostaglandin biosynthesis by human skin and its inhibition by corticosteroids. (AP2)

Page

Systematic Pharmacology

- 177 GREENWAY, C. V. and MURTHY, V. S. Effects of vasopressin and isoprenaline infusions on the distribution of blood flow in the intestine; criteria for the validity of microsphere studies. (SP1)
- 189 CHILD, K. J., DAVIS, B., DODDS, M. G. and TWISSELL, D. J. Anaesthetic, cardiovascular and respiratory effects of a new steroidal agent CT 1341: a comparison with other intravenous anaesthetic drugs in the unrestrained cat. (SP1, SP2, PM)
- 201 BISCOE, T. J., DUGGAN, A. W. and LODGE, D. Effect of etorphine, morphine and diprenorphine on neurones of the cerebral cortex and spinal cord of the rat. (SP2)
- 213 BABBINI, M. and DAVIS, W. M. Time-dose relationships for locomotor activity effects of morphine after acute or repeated treatment. (SP2, PP)
- 225 CURWAIN, B. P. and HOLTON, PAMELA. The effects of isoprenaline and noradrenaline on pentagastrin-stimulated gastric acid secretion and mucosal blood flow in the dog. (SP3, SP1, AP1)
- 234 BURNSTOCK, G., SATCHELL, D. G. and SMYTHE, ANNE. A comparison of the excitatory and inhibitory effects of non-adrenergic, non-cholinergic nerve stimulation and exogenously applied ATP on a variety of smooth muscle preparations from different vertebrate species. (SP3, AP2)

Autopharmacology

- 243 BURNSTOCK, G., McCULLOCH, M. W., STORY, D. F. and WRIGHT, M. E. Factors affecting the extraneuronal inactivation of noradrenaline in cardiac and smooth muscle. (AP1)
- 254 FÖLDI-BÖRCSÖK, ETHEL. Effect of external lymph drainage and of coumarin treatment on thermal injury in the rat hind leg. (AP2)
- 260 HICKS, R. and SACKEYFIO, A. C. The nature of adrenergic mechanisms involved in anaphylatoxin activity in the guinea-pig. (AP2, AP1)
- 270 BERG, B., GRANERUS, G., JOHANSSON, MAJ-BRITT, WESTLING, H. and WHITE, T. Histamine formation from ¹⁴C-L-histidine in man. (AP2, PK2, PK1)

Pharmacokinetics

- 281 CASALS, J. BOU. Pharmacokinetic and toxicological studies of antimony dextran glycoside (RL-712). (PK1)
- 289 BOADLE-BIBER, MARGARET C., HUGHES, J. and ROTH, R. H. Acceleration of catecholamine biosynthesis in sympathetically innervated tissues by angiotensin-II-amide. (PK2, AP1, AP3)

Drug Mechanisms

- 300 BARLOW, R. B., FRANKS, FIONA M. and PEARSON, J. D. M. A comparison of the affinities of antagonists for acetylcholine receptors in the ileum, bronchial muscle and iris of the guinea-pig. (DM2)
- 315 PARKES, M. W. and PARKS, JENNIFER C. Supersensitivity of salivation in response to pilocarpine after withdrawal of chronically administered hyoscine in the mouse. (DM2, AP1)

Clinical Pharmacology

- 324 BASU, J. Effect on reproductive organs of three clomiphene analogues. (CP, CT)

Toxicology

- 329 FREEMAN, SHIRLEY E. and TURNER, R. J. A myotoxin secreted by some piscivorous *Conus* species. (TX)

SHORT COMMUNICATIONS

- 344 AMBANI, LALIT M. and WOERT, MELVIN H. VAN. Modification of the tremorigenic activity of physostigmine. (AP1, SP2)
- 348 DREW, G. M. and LEVY, G. P. Characterization of the coronary vascular β -adrenoceptor in the pig. (SP1, DM2)
- 351 CURWAIN, B. P., HOLTON, PAMELA and SPENCER, JAN. The effect of betahistine on gastric acid secretion and mucosal blood flow in conscious dogs. (SP3, SP1)
- 355 BACK, D. J. and CALVEY, T. N. The removal of ¹⁴C-edrophonium from the circulation. (PK1)
- 358 CRIPPS, HEATHER, DEARNALEY, D. P. and HOWE, P. R. C. Enhancement of noradrenaline depletion in the cat spleen by phenoxybenzamine and phentolamine. (PK3, AP1)

Page

Systematic Pharmacology

- 363 KELLIHER, G., LUOTO, JOANNE and ROBERTS, J. The effect of certain β -adrenoceptor antagonists on overdrive suppression. (SP1, AP1, DM2)
- 375 GWEE, M. C. E., NOTT, M. W., RAPER, C. and RODGER, I. W. Pharmacological actions of a new β -adrenoceptor agonist, MJ-9184-1, in anaesthetized cats. (SP1, SP3)
- 386 HAMILTON, T. C. The effects of some phosphodiesterase inhibitors on the conductance of the perfused vascular beds of the chloralosed cat. (SP1)
- 395 KADOWITZ, P. J. Effect of prostaglandins E_1 , E_2 and A_2 on vascular resistance and responses to noradrenaline, nerve stimulation and angiotensin in the dog hindlimb. (SP1, AP1, AP2)
- 401 DUTTA, S. and MARKS, B. H. Species and ionic influences on the accumulation of digitalis glycosides by isolated perfused hearts. (SP1)
- 409 HUTCHINS, D. A., RAYEVSKY, K. S. and SHARMAN, D. F. The effect of sodium γ -hydroxybutyrate on the metabolism of dopamine in the brain. (SP2, DM1)
- 416 FAHIM, I., ISMAIL, M. and OSMAN, O. H. The role of 5-hydroxytryptamine and noradrenaline in the hyperthermic reaction induced by pethidine in rabbits pretreated with pargyline. (SP2, DM2)

Autopharmacology

- 423 HATTORI, K., KURAHASHI, K., MORI, J. and SHIBATA, S. The effect of cold storage on the adrenergic mechanisms of intestinal smooth muscle. (AP1)
- 438 FUKUDA, H. and SHIBATA, S. The effect of cold storage on the inhibitory action of isoprenaline, phenylephrine and nicotine on the mechanical and membranal activities of guinea-pig taenia caecum. (AP1)
- 449 GRYGLEWSKI, R. and VANE, J. R. The generation from arachidonic acid of rabbit aorta contracting substance (RCS) by a microsomal enzyme preparation which also generates prostaglandins. (AP2)

Pharmacokinetics

- 458 CONOLLY, M. E., DAVIES, D. S., DOLLERY, C. T., MORGAN, C. D., PATERSON, J. W. and SANDLER, M. Metabolism of isoprenaline in dog and man. (PK1, DM2, CP)
- 473 SHARKAWI, M. Effects of some centrally acting drugs on acetylcholine synthesis by rat cerebral cortex slices. (PK2, SP2)

Drug Mechanisms

- 480 BUEDING, E., LIU, C. L. and ROGERS, S. H. Inhibition by metrifonate and dichlorvos of cholinesterases in schistosomes. (DM1)
- 488 GODFRAIND, T. and LESNE, M. The uptake of cardiac glycosides in relation to their actions in isolated cardiac muscle. (DM1, DM2, SP1)
- 498 BLABER, L. C. The mechanism of the facilitatory action of edrophonium in cat skeletal muscle. (DM2, AP1)

SHORT COMMUNICATIONS

- 508 DHASMANA, K. M., FOKKER, W. A. B. and SPILKER, B. A. Peripheral cardiovascular effects, in the pithed rat, of compounds used in the treatment of hypertension. (SP1)
- 511 BUÑAG, R. and MULLENIX, PHYLLIS. Augmentation of drug-induced blood pressure increases in rats by amobarbital. (SP1, AP1, DM2)
- 514 CLANACHAN, A. S. and MUIR, T. C. A technique for the study of muscle relaxants by stimulating the spinal motor nerve outflow in the pithed rat. (SP3, SP1, AP1)
- 517 LEVY, J. V. Effect of synthetic bradykinin on contractile tension of human saphenous vein strips. (AP2, SP1, DM2)

Proceedings of the British Pharmacological Society, Bradford
6—8 September, 1972

Communications

- 519P ASSEM, E. S. K. and FEIGENBAUM, J. J. I. Effect of adrenergic drugs on histamine forming capacity of human leucocytes
- 520P BOUHUYS, A., DOUGLAS, J. S. and LEWIS, A. J. (introduced by EYRE P.). Hypersensitivity to adrenoceptor agents in the guinea-pig *in vitro* and *in vivo*
- 522P HOLFORD, N. H. G. (introduced by H. SCHNIEDEN). Antagonism of some spasmogens of the rat seminal vesicle
- 523P MCCULLOCH, M. W., RAND, M. J. and STORY, D. F. Inhibition of ^3H -noradrenaline release from sympathetic nerves of guinea-pig atria by a presynaptic α -adrenoceptor mechanism

- 524P HENDERSON, G., HUGHES, J. and THOMPSON, J. W. The variation of noradrenaline output with frequency of nerve stimulation and the effect of morphine on the cat nictitating membrane and on the guinea-pig myenteric plexus
- 525P GILLESPIE, J. S. and McGRATH, J. C. The effect of nerve stimulation on the depletion of noradrenaline by reserpine in the heart, vas deferens and anococcygeus muscle of the rat
- 526P GEORGE, A. and LEACH, G. D. H. The effect of cations on the spontaneous and drug induced efflux of ^3H -L-noradrenaline from the mesenteric arteries
- 527P ALLEN, G. S., GLOVER, A. B., RAND, M. J. and STORY, D. F. Effects of acetylcholine on vasoconstriction and release of ^3H -noradrenaline in response to sympathetic nerve stimulation in the isolated artery of the rabbit ear
- 528P COLEMAN, R. A. and LEVY, G. P. Mechanisms of 6-hydroxydopamine-induced supersensitivity in guinea-pig isolated intact trachea
- 529P KEEN, P. and McLEAN, W. G. The effect of N^6, O^2 -dibutyl adenosine $3':5'$ -cyclic monophosphate on noradrenaline synthesis in isolated superior cervical ganglia
- 530P CALLINGHAM, B. A. and CORTE, LAURA DELLA. The influence of growth and of adrenalectomy upon some rat heart enzymes
- 531P BHOOLA, K. D., EVANS, R. H. and SMITH, J. W. Catecholamine induced contractures in denervated muscle
- 533P GREENGRASS, PAMELA M. and TONGE, SALLY R. (introduced by LEONARD, B. E.). Brain monoamine metabolism in the mouse during the immediate post-partum period
- 534P HICKS, R. A theoretical model for antigen aerosol provoked anaphylactic reactions *in vivo*
- 535P MCCORMICK, J. T. and SENIOR, JUDITH. Cellulose sulphate, a tool in the evaluation of the plasma kininogen level in the rat
- 536P FARMER, J. B., FARRAR, D. G. and WILSON, J. The effect of indomethacin on the tracheal smooth muscle of the guinea-pig
- 537P HANSON, JENNIFER M., MORLEY, J. and SORIA, C. Anti-inflammatory property of 401, a peptide from the venom of the bee (*Apis mellifica* L)
- 538P EVANS, MARION E., PATERSON, J. W., SHENFIELD, GILLIAN M. and WALKER, S. R. The fate of salbutamol administered by intermittent positive pressure breathing
- 539P CALNE, D. B., GEORGE, C. F., REID, J. L. and VAIKL, S. D. Changes in baroreflexes induced by L-dopa
- 539P KINGSLEY, P. J., LITTLEJOHNS, D. W. and PRICHARD, B. N. C. Isoprenaline-induced tachycardia in man
- 541P DORAN, B. R. H., FUZZEY, G. J. J., HOPE, C. E. and PAYNE, J. P. Observations on the effect of intravenous methoxamine on limb blood flow
- 542P DOLLERY, C. T., GEORGE, C. F. and LEWIS, P. J. Double blind controlled trial of indoramin in the treatment of essential hypertension
- 543P BAKHLE, Y. S. and SMITH, T. W. Release of spasmogenic substances induced by vasoactive amines from isolated lungs
- 544P SACKEYFO, A. C. (introduced by HICKS, R.). Anaphylatoxin-induced release of a substance with prostaglandin-like activity in isolated perfused guinea-pig lungs
- 546P WHITTLE, B. J. R. (introduced by MAIN, I. H. M.). Studies on the mode of action of cyclic $3'5'$ -AMP and prostaglandin E^2 on rat gastric acid secretion and mucosal blood flow
- 547P DAVISON, P., RAMWELL, P. W. and WILLIS, A. L. Inhibition of intestinal tone and prostaglandin synthesis by 5, 8, 11, 14 tetraynoic acid
- 548P DASCOMBE, M. J. and MILTON, A. S. The effect of caffeine on the antipyretic action of aspirin administered during endotoxin induced fever
- 550P FELDBERG, W., GUPTA, K. P., MILTON, A. S. and WENDLANDT, SABINE. Effect of bacterial pyrogen and antipyretics on prostaglandin activity in cerebrospinal fluid of unanaesthetized cats
- 551P COLLIER, J. G., KARIM, S. M. M., ROBINSON, B. and SOMERS, K. Effect of prostaglandins A_1 , A_2 , B_1 , E_2 and $\text{F}_{2\alpha}$ on the forearm arterial bed of man
- 552P LUSCOMBE, D. K., NICHOLLS, P. J., OWENS, D. R. and RUSSELL, A. D. Preliminary studies of serum levels and the excretion of a new cephalosporin derivative, the sodium salt of 7-cyanacetamido-cephalosporanic acid (CIBA 36,278A-Ba) in normal human subjects and rabbits
- 551P COLLIER, J. G., KARIM, S. M. M., ROBINSON, B. and SOMERS, K. Effect of prostaglandins A_1 , A_2 , B_1 , E_2 and $\text{F}_{2\alpha}$ on the forearm arterial bed of man
- 552P LUSCOMBE, D. K., NICHOLLS, P. J., OWENS, D. R. and RUSSELL, A. D. Preliminary studies of serum levels and the excretion of a new cephalosporin derivative, the sodium salt of 7-cyanacetamido-cephalosporanic acid (CIBA 36,278A-Ba) in normal human subjects and rabbits
- 553P JONES, JENNIFER, PAYNE, J. P. and PERRY, I. R. Some clinical pharmacological effects of althesin (CT 1341)
- 554P TWYXCROSS, R. G. (introduced by VERE, D. W.). The equipotent dose ratio of diamorphine and morphine administered by mouth
- 555P CRANSTON, W. I., FOLEY, T. H., LUFF, R. H. and RAWLINS, M. D. Effects of chlorpromazine on thermoregulatory reflexes in man

Page

- 556P GILBERT, J. C. The distribution of solutes in cerebral cortex slices and the effects of drugs on the permeability of intracellular compartments to glucose
- 557P CLARKE, G., HILL, R. G. and STRAUGHAN, D. W. Some characteristics of cortical inhibition induced by local stimulation and by an acute seizure focus in the cat
- 559P LEWIS, P. J., RAWLINS, M. D. and REID, J. L. (introduced by BRECKENRIDGE, A. M.). Acute thermoregulatory and cardiovascular effects of 6-hydroxydopamine administered centrally in rabbits and cats
- 560P LEONARD, B. E. The effect of some synthetic analogues of ACTH on the metabolism of biogenic amines in the rat brain
- 561P COOPER, F., LEONARD, B. E. and SCHNIEDEN, H. The role of catecholamines in the reversal of reserpine-induced hypothermia in mice by desipramine and chlorpromazine
- 562P GOODLET, I. and SUGRUE, M. F. Effects of acutely administered analgesic drugs on rat brain 5-hydroxytryptamine turnover
- 563P BRIANT, ROBIN H. and REID, J. L. (introduced by DOLLERY, C. T.). Desmethylinipramine and the hypotensive action of clonidine in the rabbit
- 564P DAVIES, H. ff. S., HARTLEY, ROSE and SCHILD, H. O. Mode of action of permeability factor obtained from the spleen
- 565P DAVIES, H. ff. S., HARTLEY, ROSE and SCHILD, H. O. Chemical modification of spleen permeability factor
- 566P CURWAIN, B. P., HOLTON, PAMELA and SPENCER, JAN. The effects of β_2 -adrenoceptor stimulants, salbutamol and terbutaline on gastric acid secretion and mucosal blood flow in conscious dogs with Heidenhain pouches
- 567P HOWARD, R. O. and WILSON, W. S. (introduced by POLLOCK, D.). Development of acetylcholine, choline acetyltransferase and acetylcholinesterase in rabbit corneal epithelium
- 568P DOXEY, J. C., METCALF, G., SMITH, M. H. and WHITTLE, B. A. Some pharmacological properties of RX 67668—a new anticholinesterase
- 569P KOSTERLITZ, H. W. and WATERFIELD, ANGELA A. Differential effects of drugs on the acetylcholine output from the myenteric plexus and the responses of the longitudinal muscle of the guinea-pig ileum

Demonstrations

- 571P SENIOR, JUDITH and WHALLEY, E. T. Kininogen levels in rat pseudopregnancy
- 571P HEWITT, P. J. and HICKS, R. The retention of some metallic elements in tissues of rats exposed to welding fumes
- 572P NAYLOR, I. (introduced by LEACH, G. D. H.). Toxicological evaluation of surgical dressings
- 572P WING, J. F. W. (introduced by LEACH, G. D. H.). The effect of experimental conditions on total urinary catecholamine excretion in the rat
- 573P BALLARD, J. R. (introduced by LEACH, G. D. H.). Estimation of angiotensin II blood concentrations in hypertensive rats
- 574P DREW, M. (introduced by LEACH, G. D. H.). The isolated blood perfused rat tail preparation
- 575P COX, B. and WILLIAMS, C. S. Cardiovascular responses to amantadine hydrochloride in the rat and rabbit
- 575P KELLY, M. J. (introduced by SCHNIEDEN, H.). Receptors for dopamine in some isolated vascular tissues of the dog
- 577P BALLANTYNE, B. and SWANSTON, D. W. Ocular irritation tests
- 578P CARNEY, I., PUGH, I. and SHEARD, P. Application of an inexpensive analogue computer for the continuous determination of airways dynamic compliance and resistance
- 579P NUNN, BARBARA (introduced by STACEY, R. S.). The role of adenosine diphosphate (ADP) in collagen-induced platelet aggregation
- 581P ALABASTER, C. T. (introduced by ADAM, K. R.). A method of producing permanent, complete atrioventricular block in the rat
- 581P GILLET, G. B., HEDGES, A., METCALF, G., RICHENS, A. and ROYDS, R. B. Reversal of competitive neuromuscular blockade by RX 67668 in normal volunteers
- 582P WILLIS, A. L. Simplified extraction, chromatography and bioassay of prostaglandins in biological extracts (T)
- 582P OLLEY, J. E. and WEIR, M. E. Automatic programme control for Skinner box experiments (T)
- 582P MILNE, H. B. and WHYTE, C. R. Clinical interviews with drug abusers (T)
- 582P LINLEY, P. A. and SENIOR, JUDITH. Histochemical fluorescence studies on the human fallopian tube (T)
- 583P HICKS, R. and SATTI, A. K. Some effects of corticosteroids in relation to hepatotoxicity (T)
- 583P SYKES, A. J. (introduced by LEACH, G. D. H.). An inexpensive rat holder for blood pressure recording in the conscious animal (T)
- 583P MCCURRIE, J. R. (introduced by LEACH, G. D. H.). Effect of magnesium ions on drug-induced contractions of vascular smooth muscle (T)
- 583P GOODYEAR, J. M. and HALL, G. H. A simple system allowing repeated intravenous injection in the conscious rat (T)
- 583P FOY, J. M. The use of a feed-back classroom in pharmacology teaching (T)

Systematic Pharmacology

- 585 PARRATT, J. R. and WADSWORTH, R. M. The effects of dipyridamole on the myocardial vasodilator actions of noradrenaline, isoprenaline and adenosine. (SP1, DM1)
 594 PARRATT, J. R. and WADSWORTH, R. M. The effects of dipyridamole on coronary post-occlusion hyperaemia and on myocardial vasodilatation induced by systemic hypoxia. (SP1, DM1)
 602 FELDBERG, W. and SHALIGRAM, S. V. The hyperglycaemic effect of morphine. (SP2)
 619 MARLEY, E. and NISTICO, G. Effects of catecholamines and adenosine derivatives given into the brain of fowls. (SP2 AP1)

Autopharmacology

- 637 CALDWELL, R. W., HEIFFER, M. H. and HERMAN, E. H. The cardiovascular actions of WR-149,024 (1,18-diamino-7,13-diaza-9,10-dithiaoctadecane tetrahydrochloride) (AP1, SP1, DM2)
 647 IVERSEN, L. L., SALT, P. J. and WILSON, H. A. Inhibition of catecholamine uptake in the isolated rat heart by haloalkylamines related to phenoxybenzamine. (AP1, PK3)
 658 DAVIS, HEATHER A. and HORTON, E. W. Output of prostaglandins from the rabbit kidney, its increase on renal nerve stimulation and its inhibition by indomethacin. (AP2, SP3, PK3)
 676 RADMANOVIĆ, B. and TORRES, SONIA H. The effect of bradykinin on denervated tongue. (AP2)

Pharmacokinetics

- 688 HÅKANSON, R. and LIEBERG, G. Effects of brocresine (NSD-1055) and cycloheximide on amino acid decarboxylase activities in gastric mucosa of normal and vagally denervated rats. (AP2)
 696 BOADLE-BIBER, MARGARET C. and ROTH, R. H. Effect of drugs on the synthesis of noradrenaline in guinea-pig vas deferens. (PK2, AP1)
 708 RIVERA-CALIMLIM, LEONOR. Effect of chronic drug treatment on intestinal membrane transport ¹⁴C-L-DOPA. (PK3, CP)

Drug Mechanisms

- 714 HEFFRON, P. F. Actions of the selective inhibitor of cholinesterase tetramonoisopropyl pyrophosphortetramide on the rat phrenic nerve-diaphragm preparation. (DM1, AP1)
 725 SALAKO, L. A. The actions of dehydroemetine on isolated guinea-pig atria. Influence of ouabain and calcium. (DM1, SP1)
 736 BARTHOLINI, G., HAEFELY, W., JALFRE, M., KELLER, H. H. and PLETSCHER, A. Effects of clozapine on cerebral catecholaminergic neurone systems. (DM1, DM2)
 741 MONGAR, J. L. and SVEC, P. The effect of phospholipids on anaphylactic histamine release. (DM2, AP2)
 753 PERTWEE, R. G. The ring test: a quantitative method for assessing the 'cataleptic' effect of cannabis in mice. (DP, PM)

SHORT COMMUNICATIONS

- 764 HENDERSON, G., HUGHES, J. and KOSTERLITZ, H. W. A new example of a morphine-sensitive neuro-effector junction: adrenergic transmission in the mouse vas deferens. (AP1, PK3, DM2)
 767 FOREMAN, J. C. and MONGAR, J. L. Effect of calcium on dextran-induced histamine release from isolated mast cells. (DM2, AP2)