BRITISH JOURNAL OF **PHARMACOLOGY**

Contents

Systema	tic i	Pharm	acology

- 6... HOLMAN, R. B., SHILLITO, ELIZABETH E. and VOGT, MARTHE. Sleep produced by clonidine, (2-(2,6-dichlorophenylamino)-2-imidazoline hydrochloride). (SP2) KRIP, G. and VAZQUEZ, J. Effects of some sympathomimetic drugs and their antagonists on 696 afterdischarges elicited in chronically isolated slabs of cerebral cortex. (SP2, AP1)
- 706 PLEUVRY, BARBARA J. and TOBIAS, M. A. Comparison of the antinociceptive activities of physostigmine, oxotremorine and morphine in the mouse. (SP2, DM2)
 Moir, A. T. B. Interaction in the cerebral metabolism of the biogenic amines: Effect of intra-
- venous infusion of L-tryptophan on the metabolism of dopamine and 5-hydroxyindoles in brain and cerebrospinal fluid. (SP2, PK1, PK2)
- 724 Moir, A. T. B. Interaction in the cerebral metabolism of the biogenic amines: Effect of intravenous infusion of L-tryptophan on tryptophan and tyrosine in brain and body fluids. (SP2, PK1, PK2)
- LEONARD, B. E. and SHALLICE, SUSAN A. Effect of p-nitromethylamphetamine on biogenic amines and their amino-acid precursors in rat brain. (SP2, PK2, AP1)
- HASHIMOTO, K., SATOH, S., and Такеисні, O. Effect of dopamine on pancreatic secretion in the dog. (SP3, AP1)

Autopharmacology

- 747 Andén, N.-E. and Fuxe, K. A new dopamine-β-hydroxylase inhibitor: effects on the noradrenaline concentration and on the action of L-DOPA in the spinal cord.
- 757 BENFEY, B. G. Lack of relationship between myocardial cyclic AMP concentrations and inotropic effects of sympathomimetic amines.
- FEUERSTEIN, GIORA and GUTMAN, YEHUDA. Preferential secretion of adrenaline or noradren-764 aline by the cat adrenal in vivo in response to different stimuli. (AP1, SP1)
- 776 MALIK, K. U. and McGiff, J. C. Modification by choline of adrenergic transmission in rat-(AP1, SP1) mesenteric arteries.
- BHOOLA, K. D. and DOREY, GUNDULA. Kallikrein, trypsin-like proteases and amylase in 784 mammalian submaxillary glands. (AP2)
 BEDWANI, J. R. and HORTON, E. W. Interaction between prostaglandins and gonadotrophins
- 794 in the rabbit ovary. (AP2, AP3)
- HODGES, J. H. and MITCHLEY, SUSAN. Effect of prolonged treatment with tetracosactrin on hypothalamo-pituitary-adrenal function in the rat. (AP3) 804

Pharmacokinetics

- 814 GORIDIS, C. and NEFF, N. H. Monoamine oxidase in sympathetic nerves: a transmitter specific enzyme type.
- BHAGAT, B., BURKE, W. J. and DAVIS, J. W. Effect of reserpine on the activity of adrenal 819 enzymes involved in the synthesis of adrenaline.
- BACHUR, N. R. and HUFFMAN, D. H. Daunorubicin metabolism: estimation of daunorubicin 828
- reductase. (PK2, PM, CT) SNEDDON, J. M. Relationship between internal N⁺/K⁺ and the accumulation of ¹⁴C-5-hydroxy-834 (PK3, DM1) tryptamine by rat platelets.
- Tyersen, L. L., Jarrott, B. and Simmonds, M. A. Differences in the uptake, storage and metabolism of (+)- and (-)-noradrenaline. (PK3, PK1, AP1) 845

Contents-contd.

Psychopharmacology

856 Grahame-Smith, D. G. Inhibitory effect of chlorpromazine on the syndrome of hyperactivity produced by L-tryptophan or 5-methoxy-N,N-dimethyltryptamine in rats treated with a monoamine oxidase inhibitor. (PP, DM1)

SHORT COMMUNICATIONS

- 865 FARA, J. W. Escape from tension induced by noradrenaline or electrical stimulation in isolated mesenteric arteries. (SP1)
- MASSINGHAM, R. and SHEVDE, S. Aortic reactivity and electrophysiology in normotensive rats, spontaneously hypertensive rats and rats made hypertensive with desoxycorticosterone plus salt. (SP1)
- 871 Bradshaw, C. M., Roberts, M. H. T. and Szabadi, E. Effect of mescaline on single cortical neurones. (SP2, DM2)
- 874 BARBER, H. E. and BOURNE, G. R. Determination of the renal clearance of inulin in rats: lowered values at low urine flow rates. (SP3, PK1)
- 877 SAYERS, A. and SPENCER, P. S. J. Effect of some amphetamine analogues on α-methyl-p-tyrosine-induced catalepsy in rats.
 881 CUTHBERT, A. W., IND, P. W. and Wong, P. Y. D. Increased concentrations of cyclic 3',5'-
- 881 CUTHBERT, A. W., IND, P. W. and Wong, P. Y. D. Increased concentrations of cyclic 3',5'-adenosine monophosphate without a physiological response after antidiuretic hormone.
- 885 Index to Volume 43

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

VOLUME 43 No. 1 (continued)

SHORT COMMUNICATIONS

- BADOLA, R. P., BHARGAVA, K. P., DIXIT, K. S. and RATRA, C. K. Role of the chemoreceptor trigger zone in cyclopropane induced emesis in dogs. (SP2, DM2, TX)
 BHAGAT, B. and RANA, M. W. Effect of chronic administration of nicotine on the concentra-
- tions of adrenal enzymes involved in the synthesis and metabolism of adrenaline.
- 252 BAKHLE, Y. S. Inhibition of angiotensin I converting enzyme by venom peptides. (PK2, AP2)
- 255 Breese, G. R., Howard, J. L. and Leahy, J. P. Effect of 6-hydroxydopamine on electrical self stimulation of the brain. (PP, SP2, AP1)

Systematic Pharmacology

- 259 Greenway, C. V. and Murthy, V. S. Mesenteric vasoconstriction after endotoxin administration in cats pretreated with aspirin. (SP1)
- 270 CHERNOFF, N. and GRABOWSKI, C. T. Responses of the rat foetus to maternal injections of adrenaline and vasopressin. (SP1, AP3)
- 279 MADAN, B. R. Effect of glucagon on ventricular arrhythmias after coronary artery occlusion and on ventricular automaticity in the dog. (SP1, AP3)

Autopharmacology

- 287 ELIASH, SARAH and WEINSTOCK, MARTA. Role of adrenergic neurone blockade in the hypotensive action of propranolol. (AP1, DM2)
- 295 BURNSTOCK, G., EVANS, BARBARA, GANNON, B. J., HEATH, J. W. and JAMES, VICKI. New method of destroying adrenergic nerves in adult animals using guanethidine. (AP2)

(AP2)

302 Eyre, P. Pharmacology of bovine pulmonary vein anaphylaxis *in vitro*.

Pharmacokinetics

- 312 McQueen, E. G. and Wardell, W. M. Drug displacement from protein binding: isolation of a redistributional drug interaction in vivo. (PK1)
- 325 WARDELL, W. M. Drug displacement from protein binding: source of the sulphadoxine liberated by phenylbutazone. (PK1)
- 335 OLATUNDE, I. A. Chloroquine concentrations in the skin of rabbits and man. (PK1, CP)
- 341 Hobbiger, F. and Peck, A. W. Relative importance of the enzymic hydrolysis of suxamethonium in plasma and tissues: studies in cats. (PK2, PK1)
- 349 REILLY, MARGARET A. and SCHAYER, R. W. Further studies on histamine catabolism in vivo. (PK2, PK1, AP2)
- 359 KIRPEKAR, S. M. and Puig, Margarita. Effect of flow-stop on noradrenaline release from normal spleens and spleens treated with cocaine, phentolamine or phenoxybenzamine.

 (PK3, AP1)

Drug Mechanisms

- 370 GREEN, A. L. and MARSHALL, I. G. Nicotinic stimulant action of some tolyl and xylyl analogues of 1,1-dimethyl-4-phenylpiperazinium (DMPP). (DM1, DM2, AP1)
- 379 KALSNER, S. Mechanism of potentiation of contractor responses to catecholamines by methylxanthines in aortic strips. (DM2, DM1, PK2)

Clinical Pharmacology, Experimental Therapy

CONOLLY, M. E., DAVIES, D. S., DOLLERY, C. T. and GEORGE, C. F. Resistance to β-adrenoceptor stimulants (a possible explanation for the rise in asthma deaths). (CP, AP1)

Chemotherapy

403 Evans, D. P., Hossack, Margaret and Thomson, D. S. Inhibition of contact sensitivity in the mouse by topical application of corticosteroids. (CT

SHORT COMMUNICATIONS

- 409 GAGNON, D., PARK, W. K. and REGOLI, D. Specific antagonists for the myotropic action of angiotensin II and angiotensin I on the isolated rat colon. (DM2)
- 411 ORMEROD, L. P. and WESTON, A. H. Adrenoceptors in the guinea-pig colon. (AP1, DM2)

Proceedings of the British Pharmacological Society, Oxford, 15-17 September, 1971

Communications

- 415P WALKER, R. J. and Woodruff, G. N. Structure-activity studies on a 5-hydroxytryptamine receptor of *Helix aspersa* neurones
- 416P CUTHBERT, A. W. and Wong, P. Y. D. The amiloride receptor
- 417P FEWTRELL, CLARE and RANG, H. P. Distribution of bound ³H-benzilylcholine mustard in subcellular fractions of smooth muscle from guinea-pig ileum
- 418P PARK, W. K. and REGOLI, D. Specific inhibitors for angiotensin II and angiotensin I
- 419P FERREIRA, S. H. and Moncada, S. Inhibition of prostaglandin synthesis augments the effects of sympathetic nerve stimulation on the cat spleen
- 420P GRYGLEWSKI, R. and VANE, J. R. Rabbit-aorta contracting substance (RCS) may be a prostaglandin precursor
- 421P McCormick, J. T. and Senior, Judith. Effect of sex hormones on the concentrations of plasma kiningen in the female rat
- 422P GINSBURG, M., MACLUSKY, N. J., MORRIS, I. D. and THOMAS, P. J. Oestradiol binding in hypothalamic cytosol

- LIVETT, B. G. and PARRY, H. B. (introduced by Hope, D. B.). Accumulation of neurophysin 423P in the median eminence and the cerebellum of sheep with natural scrapie
- SACKEYFIO, A. C. (introduced by HICKS, R.). Definition of the histaminic component of the 424P bronchoconstrictor and cardiovascular effects of anaphylatoxin in the guinea-pig
- KOBAYASHI, Y. and MAUDSLEY, D. V. Inhibition of histidine decarboxylase in rat stomach 426P by aminoguanidine
- 427P BEILIN, L. J. and ZIAKUS, G. Vascular reactivity in 'post-DOCA' hypertension
- 428P WESTON, A. H. Inhibition of the longitudinal muscle of rabbit duodenum
- CASTELLS, R., HENDRICKX, H. and VEREECKEN, R. (introduced by BÜLBRING, EDITH). Effects 429P of catecholamines on the electrical and mechanical activity of the guinea-pig ureter
- GILLESPIE, J. S. The rat anococcygeus; a new, densely innervated smooth muscle preparation 430P
- 430P JONES, MARGARET E. L. and SPRIGGS, T. L. B. Pharmacological observations on the vas deferens of the mouse
- 431P LAITY, J. L. H. and WHITTAKER, M. Neuromuscular actions of lignocaine and prilocaine
- GINSBORG, B. L. and HIRST, G. D. S. Theophylline and adenosine at the neuromuscular junction
- 433P EVANS, R. H. (introduced by MITCHELL, J. F.). Accumulation of calcium at the motor endplate
- SOUTHGATE, P. J. and WILSON, A. B. Pharmacological interaction of lorazepam with 434P thiopentone sodium and skeletal neuromuscular blocking drugs
- FERRY, C. B. and MARSHALL, A. R. Action of edrophonium on acetylcholinesterase at the 435P mammalian neuromuscular junction
- HENDERSON, G. (introduced by BLAKELEY, A. G. H.). Effect of monoamine oxidase (MAO) 436P inhibition upon the N. P and LN potentials of the rabbit superior cervical ganglia
- COTTRELL, G. A. Action of imipramine on 5-hydroxytryptaminergic transmission and on 5-hydroxytryptamine uptake in the snail (Helix pomatia) brain
- 438P Spector, R. G. Influence of folic acid on noradrenaline stimulation of rat brain synapto-
- 438P JUORIO, A. V. and MOLINOFF, P. B. Distribution of octopamine in nervous tissues of Octopus
- KERKUT, G. A. and TABERNER, P. V. Hypnogenic properties of succinic semialdehyde and its fatty acid derivatives
- 441P JORDAN, C. C. and Webster, R. A. Release of acetylcholine and ¹⁴C-glycine from the cat spinal cord in vivo
- 442P NEAL, M. J. and WHITE, R. D. Uptake of ¹⁴C-L-glutamate by rat retina
- BOAKES, R. J., BRADLEY, P. B. and CANDY, J. M. Supersensitivity of central noradrenaline receptors after reserpine
- MILTON, A. S. and PATERSON, ANNA T. Microinjection study of the rôle of adrenergic transmission in the control of the secretion of antidiuretic hormone
- BENNETT, T., COBB, J. L. S. and MALMFORS, T. (introduced by BIRMINGHAM, A. T.). Differential effects of 6-hydroxydopamine on the terminals and non-terminal axons of adrenergic neurones
- 447P WRIGHT, P. M. (introduced by MAIN, I. H. M.). Influence of ouabain, DNP and DMSO on amino-acid transfer out of the subarachnoid space
- 448P HALLIDAY, J. and Moir, A. T. B. Effect of drugs used in status-epilepticus on the potassium fluxes of cerebrospinal fluid in the conscious dog
- McQueen, D. S. and Ungar, A. Can drugs replace hypoxic drive in respiratory depression? Foster, R. W. and O'Donnell, S. Evidence for an active uptake of noradrenaline in the 449P
- 450P guinea-pig isolated trachea
- 451P BLAKELEY, A. G. H., Powis, G. and Summers, R. J. Effect of the monoamine oxidase inhibitor pargyline on the uptake of labelled noradrenaline by the cat's spleen
- BAINBRIDGE, PENELOPE A., BURDEN, D. T. and PARKES, M. W. Attempt to assess the selectivity 452P of β -adrenoceptive blocking agents towards the effects of electrical stimulation of the spinal cord on different organs
- 453P HARRY, J. D., LINDEN, R. J. and Snow, H. M. Effects of β -adrenoreceptor blocking drugs on isolated skeletal and cardiac muscle
- FOZARD, J. R. and MUSCHOLL, E. Effects of several muscarinic agonists on cardiac perform-454P ance and the release of noradrenaline from the sympathetic nerves of the rabbit heart
- CHALMERS, J. P., DAVIES, D. S., DRAFFAN, G. H., REID, J. L. and THORGEIRSSON, S. S. 455P Demethylation of 3-O-methyldopa
- 456P DONAHUE, J. D., JOHNSON, R. K. and JONDORF, W. R. (introduced by Muir, T. C.). Comparison of effects exerted by isomers and analogues of (\pm) -2,3-dehydroemetine on protein synthesis in rat liver
- LE SERVE, A. W. (introduced by Hellmann, K.). Vascular changes in tumours after treatment with ICRF 159
- 458P BOOBIS, A. R. and POLLOCK, D. (introduced by GILLESPIE, J. S.). Influence of phenobarbitone on liver regeneration and microsomal N-demethylating activity in partially hepatectomized rats

page

- 459P NICHOLS, P. J. and ORTON, T. C. Absorption, distribution and excretion of methsuximide in male rats
- 460P OTT, H. and SMITH, G. M. Anti-thrombotic activity of a benzo[c][1,6]naphthyridine
- 461P COWAN, A., LEWIS, J. W. and MACFARLANE, I. R. (introduced by WHITTLE, B. A.). Analgesic and dependence studies with oripavine partial agonists
- 462P GOODE, P. G. and WHITE, A. C. (introduced by GREEN, D.). Some properties of WY 22811, a new analgesic compound

Clinical Pharmacology Section

- 464P Crow, T. J. and Grove-White, I. G. (introduced by Kelman, G. R.). Differential effect of atropine and hyoscine on human learning capacity
- 464P ALLEN, J. G., CALNE, D. B., DAVIES, C. A. and REID, J. L. Relationship of plasma concentrations of levodopa to clinical response in Parkinsonism
- 465P CAMPBELL, D. B. (introduced by TURNER, P.). Plasma concentrations of fenfluramine and its metabolite, norfenfluramine, after single and repeated oral administration
- 466P EVANS, MARION E., PATERSON, J. W., RICHARDS, A. J. and WALKER, S. R. Pharmacokinetics of inhaled salbutamol in asthmatic patients
- 467P COLTART, D. J., LOCKHART, J. D. F., ROYDS, R. B. and TURNER, P. Human pharmacology of indoramin
- 468P BRIANT, R. H., DOLLERY, C. T., FENYVESI, T. and GEORGE, C. F. Pharmacology of M & B 17803A in man and dog
- 469P FUZZEY, G. J. J., HOPE, C. E. and PAYNE, J. P. Effect of practolol on limb blood flow in anaesthetized patients with cardiac dysrhythmias
- 470P SHARMA, B. and TAYLOR, S. H. Comparison of the symptomatic, electrocardiographic and haemodynamic effects of acute and long term β -blockade in angina pectoris
- 471P CUTHBERT, M. F. and VERE, D. W. Potentiation of the cardiovascular effects of some catecholamines by a monoamine oxidase inhibitor
- 472P BARAR, F. S. K., BOAKES, A. J., BENEDIKTER, L. B., LAURENCE, D. R., PRICHARD, B. N. C.and TEOH, P. C. Interactions between catecholamines and tricyclic and monoamine oxidase inhibitor antidepressive agents in man
- 473P GRAYSON, M. F., SMITH, A. J. and SMITH, R. N. Absorption, distribution and elimination of ¹⁴C-amiloride in normal human subjects

Demonstrations

- 475P BURDOCK, MARIE, MORLEY, J. and WILLIAMS, T. J. Photometric method for the measurement of cell migration inhibition
- 475P EISEN, V. and LOVEDAY, C. Non-traumatic blood collection from rat tail vessels. Application in *Mycoplasma* (arthritis)
- 476P NEAT, MARIAN L. and PEACOCK, R. (introduced by Brittain, R. T.). Implantation of electrodes in the dentine of an upper canine tooth in the dog
- 477P COWAN, A. and COWAN, P. (introduced by Whittle, B. A.). Automatic recording of the mouse abstinence syndrome
- 478P HAYES, J. and QUINTON, R. M. Routine assessment of drug-related induction of liver microsomal enzymes during toxicity trials in animals
- 478P Dow, R. C., PARK, JUDITH K., PRYOR, HELEN M. and Townsend, H. R. A. Method for the production and detection of epileptogenic lesions in rat cerebral cortex
- 479P ARBAB, A. G. and TURNER, P. Influence of pH on absorption of thymoxamine through buccal mucosa in man
- 480P VERE, D. W. Methods to linearize the lower end of a dose-response curve
- 481P Knowles, B. R., Lucas, S. B., Mawer, G. E., Stirland, R. M. and Tooth, J. A. Use of a digital computer programme as a guide to the prescribing of kanamycin in patients with renal insufficiency
- 482P MILLER, K. W., PATON, W. D. M., SMITH, E. B. and SMITH, R. A. Pressure reversal of anaesthesia (T)
- 482P JOHNSON, SHEENA and MILLER, K. W. Effect of general anaesthetics on the permeability of single bilayer phospholipid vesicles and the antagonism of high pressure (T)
- 482P PATON, W. D. M. and PERTWEE, R. G. Pharmacology of cannabis: catalepsy: hypothermia: inhibition of drug metabolism (T)

Systematic Pharmacology

- 483 KENNEDY, BARBARA L., NOOKHWUN, CHONGKOL, SADAVONGVIVAD, CHIRAVAT and TANCHAIJA, S. Inotropic actions of lignocaine and phenytoin. (SP1)
- 497 Dhawan, B. N. and Dua, P. R. Evidence for the presence of α-adrenoceptors in the central thermoregulatory mechanism of rabbits. (SP2, AP1)
- 504 HUTCHINS, D. A. and ROGERS, K. J. Effect of receptor blocking drugs on the depletion of brain glycogen by amphetamine. (SP2, DM2)
- 514 Bonta, I. L., De Vos, C. J., Grijsen, H., Hillen, F. C., Noach, E. L. and Sim, A. W. 1-Hydroxy-3-amino-pyrrolidone-2 (HA-966): a new GABA-like compound, with potential use in extrapyramidal diseases. (SP2, PP)

Autopharmacology

- 536 RAND, M. J. and VARMA, B. Effects of the muscarinic agonist McN-A-343 on responses to sympathetic nerve stimulation in the rabbit ear artery.

 (AP1, SP1, PK3)
- 543 FELDBERG, W. and SAXENA, P. N. Effects of adrenoceptor blocking agents on body temperature.
 (AP1, SP2, DM2)
- 555 GRAHAM, J. D. P., IVENS, CAROLINE, JOÓ, F., LEVER, J. D., MOTTRAM, D. R. and SPRIGGS, T. L. B. ³H-Noradrenaline-accumulating ability of cholinergic nerve terminals in cat sympathetic ganglia. (API, PKI)
- 560 HOLZBAUER, MARGARETHE. In vivo production of steroids with central depressant actions by the ovary of the rat. (AP3)

Pharmacokinetics

570 Costa, E., Naimzada, K. M. and Revuelta, A. Effect of phenmetrazine, aminorex and (±) p-chloramphetamine on the motor activity and turnover rate of brain catecholamines. (PK2, PP)

Drug Mechanisms

- 580 BEGENT, NICOLA A. and BORN, G. V. R. Comparison of the effects of drugs on the aggregation of hamster platelets in vivo and in vitro. (DM1)
- 593 WESTON, A. H. Effects of isoprenaline and phenylephrine on energy-rich phosphate compounds and glucose-6 phosphate in smooth and cardiac muscle. (DM1, DM2, AP1)
- MITTAG, T. W. and TORMAY, ANNE. Effects of isoxazolium cations on some isolated muscle preparations. (DM2)
- 612 PARRATT, J. R. and Winslow, Eileen. Actions of quazodine (MJ1988) on smooth muscle.
 (DM2)
- 624 DALY, M. J., FARMER, J. B. and LEVY, G. P. Comparison of the bronchodilator and cardiovascular actions of salbutamol, isoprenaline and orciprenaline in guinea-pigs and dogs. (DM2, SP1, SP3)

Clinical Pharmacology, Experimental Therapy

639 CUTHBERT, M. F. and OWUSU-ANKOMAH, K. Effect of M & B 17803A, a new β-adrenoceptor blocking agent, on the cardiovascular responses to tilting and to isoprenaline in man.

(CP, AP1, SP1)

Chemotherapy

649 CHYLIŃSKA, J. B., JANOWIEC, M. and URBAŃSKI, T. Antibacterial activity of dihydro-1,3-oxazine derivatives condensed with aromatic rings in positions 5, 6. (CT)

Psychopharmacology

658 Christie, Janice E. and Crow, T. J. Turning behaviour as an index of the action of amphetamines and ephedrines on central dopamine-containing neurones. (PP, SP1, AP1)

SHORT COMMUNICATIONS

- 668 OWEN, D. A. A. Responses to pressor substances in conscious and anaesthetized cats. (SP1)
- 671 Breese, G. R. and Howard, J. L. Effect of central catecholamine alterations on the hypothermic response to 6-hydroxydopamine in desipramine-treated rats. (SP2, AP1)
- 675 CHIBA, S., HASHIMOTO, K., KUBOTA, K. and SATOH, S. Blocking effect of McN-A-343 on cardiac slowing produced by vagal stimulation. (AP1, SP1)
- 677 COHEN, J. L., JAO, J. Y. and JUSKO, W. J. Pharmacokinetics of cyclophosphamide in man. (PK1, PK2)
- 681 Evans, M. H. Comparison of the actions of saxitoxin and tetrodotoxin on the motor end-plate of frog muscle. (TX. SP3 DM2)

Systematic Pharmacology

- 685 HOLMAN, R. B., SHILLITO, ELIZABETH E. and VOGT, MARTHE. Sleep produced by clonidine, (2-(2,6-dichlorophenylamino)-2-imidazoline hydrochloride). (SP2)
- 696 Krip, G. and VAZQUEZ, J. Effects of some sympathomimetic drugs and their antagonists on afterdischarges elicited in chronically isolated slabs of cerebral cortex. (SP2, AP1)
- 706 PLEUVRY, BARBARA J. and Tobias, M. A. Comparison of the antinociceptive activities of physostigmine, oxotremorine and morphine in the mouse. (SP2, DM2)
- 715 Moir, A. T. B. Interaction in the cerebral metabolism of the biogenic amines: Effect of intravenous infusion of L-tryptophan on the metabolism of dopamine and 5-hydroxyindoles in brain and cerebrospinal fluid. (SP2, PK1, PK2)
- 724 Moir, A. T. B. Interaction in the cerebral metabolism of the biogenic amines: Effect of intravenous infusion of L-tryptophan on tryptophan and tyrosine in brain and body fluids.

 (SP2. PK1, PK2)
- 732 LEONARD, B. E. and SHALLICE, SUSAN A. Effect of p-nitromethylamphetamine on biogenic amines and their amino-acid precursors in rat brain. (SP2, PK2, AP1)
- 739 HASHIMOTO, K., SATOH, S., and TAKEUCHI, O. Effect of dopamine on pancreatic secretion in the dog. (SP3, AP1)

Autopharmacology

- 747 Andén, N.-E. and Fuxe, K. A new dopamine-β-hydroxylase inhibitor: effects on the nor-adrenaline concentration and on the action of L-DOPA in the spinal cord. (AP1)
- 757 Benfey, B. G. Lack of relationship between myocardial cyclic AMP concentrations and inotropic effects of sympathomimetic amines. (AP1)
- 764 FEUERSTEIN, GIORA and GUTMAN, YEHUDA. Preferential secretion of adrenaline or noradrenaline by the cat adrenal in vivo in response to different stimuli. (AP1, SP1)
- 776 MALIK, K. U. and McGIFF, J. C. Modification by choline of adrenergic transmission in rat mesenteric arteries. (AP1, SP1)
- 784 BHOOLA, K. D. and DOREY, GUNDULA. Kallikrein, trypsin-like proteases and amylase in mammalian submaxillary glands. (AP2)
- 794 BEDWANI, J. R. and HORTON, E. W. Interaction between prostaglandins and gonadotrophins in the rabbit ovary. (AP2, AP3)
- HODGES, J. H. and MITCHLEY, SUSAN. Effect of prolonged treatment with tetracosactrin on hypothalamo-pituitary-adrenal function in the rat. (AP3)

Pharmacokinetics

- GORIDIS, C. and NEFF, N. H. Monoamine oxidase in sympathetic nerves: a transmitter specific enzyme type. (PK2)
- BHAGAT, B., BURKE, W. J. and DAVIS, J. W. Effect of reserpine on the activity of adrenal enzymes involved in the synthesis of adrenaline. (PK2, AP1)
- BACHUR, N. R. and HUFFMAN, D. H. Daunorubicin metabolism: estimation of daunorubicin reductase. (PK2, PM, CT)
- 834 SNEDDON, J. M. Relationship between internal N^+/K^+ and the accumulation of 14 C-5-hydroxy-tryptamine by rat platelets. (PK3, DM1)
- 845 IVERSEN, L. L., JARROTT, B. and SIMMONDS, M. A. Differences in the uptake, storage and metabolism of (+)- and (-)-noradrenaline. (PK3, PK1, AP1)

Psychopharmacology

856 Grahame-Smith, D. G. Inhibitory effect of chlorpromazine on the syndrome of hyperactivity produced by L-tryptophan or 5-methoxy-N,N-dimethyltryptamine in rats treated with a monoamine oxidase inhibitor. (PP, DM1)

SHORT COMMUNICATIONS

- 865 FARA, J. W. Escape from tension induced by noradrenaline or electrical stimulation in isolated mesenteric arteries. (SP1)
- MASSINGHAM, R. and Shevde, S. Aortic reactivity and electrophysiology in normotensive rats, spontaneously hypertensive rats and rats made hypertensive with desoxycorticosterone plus salt. (SP1)
- 871 Bradshaw, C. M., Roberts, M. H. T. and Szabadi, E. Effect of mescaline on single cortical neurones. (SP2, DM2)
- BARBER, H. E. and BOURNE, G. R. Determination of the renal clearance of inulin in rats: lowered values at low urine flow rates. (SP3, PK1)
- 877 SAYERS, A. and SPENCER, P. S. J. Effect of some amphetamine analogues on α-methyl-p-tyrosine-induced catalepsy in rats. (PP, SP2, DM2)
- 881 CUTHBERT, A. W., IND, P. W. and Wong, P. Y. D. Increased concentrations of cyclic 3',5'adenosine monophosphate without a physiological response after antidiuretic hormone.

 (DM, AP3)
- 885 Index to Volume 43