

BRITISH JOURNAL OF PHARMACOLOGY

Contents

Page

Systematic Pharmacology

- 169 MASON, P. A. and STURMAN, GILLIAN. Some pharmacological properties of piperazine. (SP1, SP3, CT)
- 177 GREENWAY, C. V. and LAUTT, W. W. Effects of infusions of catecholamines, angiotensin, vasopressin and histamine on hepatic blood volume in the anaesthetized cat. (SP1, AP1, AP3)
- 185 GREENWAY, C. V. and LAUTT, W. W. Effects of adrenaline, isoprenaline and histamine on transsinusoidal fluid filtration in the cat liver. (SP1, AP1, AP3)
- 192 DAY, M. D., HALL, J. M. and OWEN, D. A. A. Selective inhibition of angiotensin pressor responses in the pithed rat by tetraethylthiuram disulphide (disulfiram) and sodium diethyl-dithiocarbamate (DDC). (SP1, AP3, DM2)
- 203 CASHIN, C. H. Effect of sympathomimetic drugs in eliciting hypertensive responses to reserpine in the rat, after pretreatment with monoamineoxidase inhibitors. (SP1, PK3, DM2)
- 210 BREESE, G. R. and TRAYLOR, T. D. Developmental characteristics of brain catecholamines and tyrosine hydroxylase in the rat : effects of 6-hydroxydopamine. (SP2)
- 223 HARRIS, CAROL A. and JENNER, F. A. Some aspects of the inhibition of the action of antidiuretic hormone by lithium ions in the rat kidney and bladder of the toad *Bufo marinus*. (SP3, AP3)

Automatic Pharmacology

- 233 CLARK, D. W. J., LAVERTY, R. and PHELAN, E. L. Long-lasting peripheral and central effects of 6-hydroxydopamine in rats. (AP1, SP1, PP)

Pharmacokinetics

- 244 FREUDENTHAL, R. I., MARTIN, J. and WALL, M. E. Distribution of Δ^9 -tetrahydrocannabinol in the mouse. (PK1)
- 250 PATON, W. D. M. and PERTWEE, R. G. Effect of cannabis and certain of its constituents on pentobarbitone sleeping time and phenazone metabolism. (PK2, DM1, PP)
- 262 BININI, R., BONACCORSI, A., GARATTINI, S., MORSELLI, P. L. and MUSCETTOLA, G. Uptake of desipramine by rat vas deferens. (PK3, DM2, AP1)

Drug Mechanisms

- 271 GLYNN, I. M. and WARNER, ANNE E. Nature of the calcium dependent potassium leak induced by (+)-propranolol, and its possible relevance to the drug's antiarrhythmic effect. (DM1)
- 279 SPECTOR, R. G. Effects of formyl tetrahydrofolic acid and noradrenaline on the oxygen consumption of rat brain synaptosome-mitochondrial preparations. (DM1)

Clinical Pharmacology, Experimental Therapy

- 286 COLLIER, J. G., DAWNAY, N. A. H., NACHEV, CH. and ROBINSON, B. F. Clinical investigation of an antagonist at α - and β -adrenoceptors-AH 5158A. (CP, DM2, AP1)
- 294 COLLIER, J. G., NACHEV, CH. and ROBINSON, B. F. Comparison of blockade at α -adrenoceptors by thymoxamine and phentolamine in peripheral arteries and veins of man. (CP, DM2, AP1)

Contents-contd.

Psychopharmacology

- 301 BOWERS, M. M. JUN. and ROTH, R. H. Interaction of atropine-like drugs with dopamine-containing neurones in rat brain. (PP)

SHORT COMMUNICATIONS

- 307 DAIRMAN, W. Catecholamine concentrations and the activity of tyrosine hydroxylase after an increase in the concentration of tyrosine in rat tissues. (AP1, PK2, DM1)
311 EYRE, P. and LEWIS, A. J. Production of kinins in bovine anaphylactic shock. (AP2)
314 HANAHOE, T. H. P. Effects of calcium on dextran anaphylactoid oedema in the rat. (AP2)
317 BILLINGHAM, M. E. J. and ROBINSON, B. V. Separation of irritancy from the anti-inflammatory component of inflammation exudate. (AP2, AP3)
321 DELITHEOS, A. K., KARABALI, S. B. and VARONOS, D. D. Inhibition of streptolysin O-induced haemolysis by theobromine sodium salicylate. (M)

Proceedings of the British Pharmacological Society, London, 4-7 January, 1972

Communications

- 323P LEDINGHAM, I. MCA., MCARDLE, C. S. and PARRATT, J. R. Comparison of a coronary vasodilator drug (carbochromen) and a cardiac stimulant (oxyfedrin) on blood flow and oxygen extraction in experimental myocardial infarcts.
324P GARDINER, J. E. and GWEE, M. C. E. Effects of two hemicholiniums on the concentrations of plasma choline in the rabbit.
325P HOLMES, LINDA, LEWIS, G. P., PETERS, JUDY and WHITE, A. M. Effect of hydrocortisone and indomethacin on changes in LDH isoenzymes in skin after thermal injury.
326P FOREMAN, J. C. and MONGAR, J. L. Activation of anaphylactic histamine release by calcium and strontium ions.
327P MONGAR, J. L. and SVEC, P. Effect of phospholipids on histamine release.
327P FREEMAN, PATRICIA C. and WEST, G. B. Resistance of rats to carrageenan and to adjuvant-induced arthritis.
328P FERREIRA, S. H., HERMAN, A. and VANE, J. R. Prostaglandin generation maintains the smooth muscle tone of the rabbit isolated jejunum.
330P HIGGS, G. A. and YOULTEN, L. J. F. Prostaglandin production by rabbit peritoneal polymorphonuclear leukocytes *in vitro*.
331P MAIN, I. H. M. and WHITTLE, B. J. R. Effects of prostaglandin E₂ on rat gastric mucosal blood flow, as determined by ¹⁴C-aniline clearance.
332P CURWAIN, B. P. and HOLTON, PAMELA. Effects of isoprenaline on gastric acid secretion and mucosal blood flow during stimulation by pentagastrin or feeding.
333P BEZNAK, MARGARET, PATERSON, R. A. and VALADARES, J. R. E. (introduced by M. J. DAVIS). Cardiac responses to pituitary and thyroid hormones.
334P MORLEY, J. and WOLSTENCROFT, R. A. Mitogenic and inflammatory activities produced by antigen activation of guinea-pig lymphocytes.
336P BUCKLEY, G. A. and CHRISTINE E. Persistence of neostigmine-like activity in tissues of the rat after prolonged oral administration.
337P ADCOCK, JENNIFER J. and GILBERT, J. C. Effects of phenobarbitone and leptazol on rat brain lysosomes.
338P GILBERT, J. C. Effects of phenobarbitone on glucose transport and membrane ATP-ase activities of cerebral cortex.
339P HARRIS, M., HOPKIN, JUDY and NEAL, M. J. Effect of centrally acting drugs on the uptake of γ -aminobutyric acid by the brain.
340P CEASAR, P. M. and SHARMAN, D. F. Studies on the glycol metabolites of noradrenaline in mouse brain.
341P HUTCHINS, D. A., RAYEVSKY, K. S. and SHARMAN, D. F. Effect of γ -hydroxybutyric acid on dopamine metabolism in the brain.
342P EVERITT, B. J. and HACKET, N. B. (introduced by M. J. RAND). Central stimulant action of fenfluramine in the rat.
343P BOND, A. J. and LADER, M. H. Residual effects of a new benzodiazepine: flurazepam.
344P CLARKE, G., DAVIES, J. and STRAUGHAN, D. W. Iontophoretic study of the central anticholinergic properties of BRL 1288.
345P BRAMWELL, G. J. (introduced by D. W. STRAUGHAN). Effect of imipramine on unit activity in the midbrain raphe of rats.
346P PATON, W. D. M. and TEMPLE, DIANA M. Effects of chronic and acute cannabis treatment upon thiopentone anaesthesia in rabbits.
347P GULDBERG, H. C. and MARSDEN, C. A. Brain monoamines and the increase in motor activity in the rat after amphetamine.
348P BEATTIE, I. A., BERRY, P. A. and LISTER, R. E. Effect of oxypertine on anxiety-induced behaviour in baboons.

Contents-contd.

- 349P U'PRICHARD, D. C. and STEINBERG, HANNAH. Selective effects of lithium on two forms of spontaneous activity.
- 350P KATZ, D. M. and STEINBERG, HANNAH. Previous environment and responses to morphine.
- 351P TOMKIEWICZ, M. (introduced by HANNAH STEINBERG). Amylobarbitone abolishes social dominance hierarchies in laboratory rats.
- 352P ALHAVA, EEVA and MATTILA, M. J. Amphetamine toxicity and brain amphetamine concentrations in adult and developing mice.
- 353P COWAN, A. and WHITTLE, B. A. Inability of antidepressants and morphine to reverse reserpine-induced hypothermia in adrenalectomized mice.
- 354P DEPOORTERE, H. and LOEW, D. M. (introduced by B. BERDE). Alterations in the sleep/wakefulness cycle in rats after administration of (-)-LSD or BOL-148: a comparison with (+)-LSD.
- 355P HOLZBAUER, MARGARETHE and YODIM, M. B. H. Influence of endocrine glands on central and peripheral monoamine oxidase activity.
- 356P FINCH, L., HAEUSLER, G. and THOENEN, H. Failure to induce experimental hypertension in rats after intraventricular injection of 6-hydroxydopamine.
- 357P FINCH, L., HAEUSLER, G., KUHN, H. and THOENEN, H. The recovery of vascular adrenergic nerve function in the rat after chemical sympathectomy with 6-hydroxydopamine.
- 359P GILLESPIE, J. S. and TOWART, R. Uptake kinetics and ion requirements for extraneuronal uptake of noradrenaline by arterial smooth muscle.
- 359P AMBACHE, N., DUNK, LINDA P., VERNEY, J. and ZAR, M. ABOO. Inhibitory nature of the adrenergic innervation in the guinea-pig vas deferens.
- 361P NICOL, C. J. M. and RAE, R. M. (introduced by W. R. BUCKETT). Inhibition of accumulation of adrenaline and noradrenaline in arterial smooth muscle by steroids.
- 362P FAWKE, LINDA (introduced by D. F. WEETMAN). Is thymoxamine a specific α -adrenoceptor blocking agent?
- 363P AHTEE, LIISA and MICHAL, F. Effects of sympathomimetic amines on rabbit platelet aggregation *in vitro*.
- 364P IJIMA, ALLAN T. and REIFFENSTEIN, R. J. (introduced by M. J. NEAL). Possible allosteric interaction between pharmacological receptors in guinea-pig vas deferens.
- 365P COTTRELL, G. A. and TWAROG, BETTY M. Active factors in the venom duct of *Conus californicus*.
- 366P MACKAY, D. and MCKIRDY, H. C. (introduced by B. R. MACKENNA). Effect of vasopressin and of adenosine triphosphate on the flat preparation of rabbit rectum.
- 367P BARLOW, R. B. and PEARSON, J. D. M. Relationships between stereospecificity and chemical structure (T).
- 367P BLABER, L. C. Mechanism of the facilitatory action of edrophonium in cat skeletal muscle (T).

Clinical Pharmacology Section

- 368P HOLLAND, P., PARKES, D. and SHAKESPEARE, J. Concentrations of the oxime 2-hydroxyiminomethyl pyridinium methyl methane sulphonate (P2S) after intramuscular injection in humans.
- 369P CAMPBELL, H., CLINE, W., EVANS, M., LLOYD, J. and PECK, A. W. Comparison of the effects of dexamphetamine and 1-benzylpiperazine in former addicts.
- 370P CURRY, S. H., LADER, M. H., MOULD, G. P. and SAKALIS, G. Clinical pharmacology of chlorpromazine.
- 371P MOIR, D. C., CROOKS, J., SAWYER, P., TURNBULL, M. J. and WEIR, R. D. Cardiotoxicity of tricyclic antidepressants.
- 372P O'MALLEY, K., SAWYER, P. R., STEVENSON, I. H. and TURNBULL, M. J. Effects of tricyclic antidepressants on drug metabolism.
- 373P DETTLI, L., OHNHAUS, E. E. and SPRING, P. (introduced by W. H. AELIG). Digoxin dosage in patients with impaired kidney function.
- 373P COLTART, D. J., CREE, J. E. and HOWARD, M. R. (introduced by D. A. CHAMBERLAIN). Plasma digoxin concentrations in children in heart failure.
- 374P COLLIER, J. G., KARIM, S. M. M., ROBINSON, B. and SOMERS, K. Action of prostaglandins A₂, B₁, E₂ and F₂ α on superficial hand veins of man.
- 375P FUZZEY, G. J. J., HOPE, C. E. and PAYNE, J. P. Biphasic response of limb blood flow to intravenous methoxamine in anaesthetized man.
- 377P HICKS, DEBORAH C. and PHILLIPS, EILEEN M. (introduced by P. TURNER). Preliminary studies of Ro 3-3528, a β -adrenoceptor blocking agent, in man.
- 378P BOAKES, A. J., PRICHARD, B. N. C. and TEOH, P. C. α -Adrenoceptor inhibition from indoramin in man.
- 379P ROYDS, R. B. (introduced by P. TURNER). Initial clinical experience with indoramin, a new antihypertensive agent.
- 380P KNOWLES, B. R., LUCAS, S. B., MAWER, G. E., STIRLAND, R. M. and TOOTH, J. A. Computer-assisted prescribing of kanamycin for patients with renal insufficiency (T).

Demonstrations

- 381P GARDINER, D. G. and PARKES, M. W. Device for cycle-by-cycle spirometry, applied to the continuous recording of air overflow.

Contents-contd.

- 382P BALLANTYNE, B., BOARDMAN, S. P., BRIGHT, J., COFFEE, D. J., WEBBER, T. D. and WILLIAMS, P. (introduced by F. W. BESWICK). Tissue cyanide concentrations and cytochrome oxidase activities in experimental cyanide poisoning.
- 383P COLLIER, J. G. (introduced by J. R. VANE). New dialysis technique for the continuous measurement of the concentration of vaso-active hormones.
- 384P TONKS, R. S. and WILLIAMS, P. H. New method of recording responses of isolated tissues, organs and intact preparations.
- 384P MORLEY, J. and WILLIAMS, T. J. Inflammatory response produced by a factor released from lymphocytes.
- 386P JONES, D. G., LENMAN, J. A. R., ROBERTSON, M. A. H. and TURNBULL, M. J. Effect of amantadine on the urinary excretion of some monoamines and metabolites in normal and Parkinsonian subjects.
- 387P COLTART, D. J. and ROYDS, R. B. (introduced by J. HAMER). Haemodynamic effects of indoramin: a non-invasive technique for the cardiovascular evaluation of drugs.
- 388P BURMAN, A. S. (introduced by P. TURNER). Peripheral blood scintillometry in psychophysiological research.
- 389P HILL, R. G. and SIMMONDS, M. A. Can meaningful dose-response curves be obtained by measuring the firing-rate responses of cells to iontophoretically applied substances? (T).
- 389P METCALFE, J. and ROBINSON, B. V. Pharmacology of the autonomic nervous system—a new film (T).
- 390P GROVE, J., IRVINE, R. E., TOSELAND, P. and TROUNCE, J. R. Effect of age on the hydroxylation of amylobarbitone sodium in man (T).
- 390P MORRIS, R. W. and SHANKS, D. Comparison of ultrasonic and caliper methods of measuring subcutaneous fat thickness in humans (T).
- 390P BRECKENRIDGE, A. M. and SALLOCH, R. R. Liver blood flow measurements by internal calorimetry in rats (T).
- 390P CLARE, R. A., DRAFFAN, G. H., GEORGE, C. F. and WILLIAMS, FAITH M. Rapid identification of drugs in cases of self poisoning by means of combined GC-MS-Computer system (T).
- 390P LEAVER, D. G., PRIDE, N. B. and TATTERSFIELD, A. E. Effect of beta-adrenoceptor blockade and stimulation on the airways of normal subjects (T).
- 390P BRIANT, R. H., BUDDEN, M. L. and DOLLERY, C. T. Metabolism of drugs in the isolated perfused dog lung (T).

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