

BRITISH JOURNAL OF PHARMACOLOGY

Contents

- | | |
|-------------|---|
| <i>Page</i> | Systematic Pharmacology |
| 183 | BAGWELL, E. E., POLSTER P. and VAUGHAN WILLIAMS, E. M. The effects on cardiac muscle and nerve of a fluorinated decahydroquinoline derivative, L7810, rapidly absorbed after oral administration. (SP1, CP) |
| 194 | CALNE, D. B. and REID, J. L. Actions of levodopa on the blood pressure of conscious rabbits. (SP1, CP) |
| 198 | BASIL, B., JORDAN, R., LOVELESS, A. H. and MAXWELL, D. R. β -Adrenoceptor blocking properties and cardioselectivity of M & B 17,803A. (SP1, DM2, AP1) |
| 212 | BRADLEY, P. B. and DRAY, A. Modification of the responses of brain stem neurones to transmitter substances by anaesthetic agents. (SP2) |
| | Autopharmacology |
| 225 | DAWES, P. M. and VIZI, E. S. Acetylcholine release from the rabbit isolated superior cervical ganglion preparation. (AP1, PK3) |
| 233 | de GROAT, W. C. and LALLEY, P. M. Interaction between picrotoxin and 5-hydroxytryptamine in the superior cervical ganglion of the cat. (AP1, SP2, DM2) |
| 245 | BARZAGHI, F., BAUMGARTNER, H. R., CARRUBA, M., MANTEGAZZA, P. and PLETSCHER, A. The 5-hydroxytryptamine-like actions of 5,6-dihydroxytryptamine. (AP2) |
| 255 | MALONE, M. H. and TROTTER, JR., R. W. Evaluation of cryogenine on rat paw thermal oedema and rat isolated uterus. (AP2, DM2) |
| 263 | BISSET, G. W., ERRINGTON, M. L. and RICHARDS, C. D. The distribution of vasopressin and oxytocin in the hypothalamoneurohypophyseal system of the guinea-pig. (AP3, SP2) |
| | Pharmacokinetics |
| 273 | CONKLIN, J. D., SOBERS, R. J. and WAGNER, D. L. Further studies on nitrofurantoin excretion in dog hepatic bile. (PK1) |
| 278 | BUTTAR, H. S., COLDWELL, B. B. and THOMAS, B. H. The effect of salicylate on the biliary excretion of ^{14}C -bishydroxycoumarin in rat. (PK1, TX) |
| | Drug Mechanisms |
| 288 | PARK, W. K., REGOLI, D. and RIOUX F. Characterization of angiotensin receptors in vascular and intestinal smooth muscles. (DM2) |
| 302 | WESTON, A. H. Nerve-mediated inhibition of mechanical activity in rabbit duodenum and the effects of desensitization to adenosine and several of its derivatives. (DM2, AP1, AP2) |
| | Clinical Pharmacology, Experimental Therapy |
| 309 | MOYLAN-JONES, R. J. and PRICE THOMAS, D. Cyclopentolate in treatment of sarin miosis. (CP) |
| | SHORT COMMUNICATIONS |
| 314 | GULATI, O. D., MAKOL, RENU and SHAH, D. S. Some characteristics of the adrenergic neurone blocking action of dehydroemetine. (AP1, DM2) |
| 318 | EARL, JANET and LARGE, W. A. Effect of penicillin on the increase in membrane conductance induced by γ -aminobutyric acid at the crab neuromuscular junction. (DM1, DM2) |
| 321 | EYRE, P. Histamine H_2 -receptors in the sheep bronchus and cat trachea: the action of buri-
namide. (DM2, AP2) |

Contents—Continued

Proceedings of the British Pharmacological Society, Leeds, 28-30 March, 1973

Communications

- 325P D'ARCY, P. F. and HARPUR, E. S. Laboratory testing for ototoxic effects of drugs.
- 326P DUNDEE, J. W., GUPTA, P. K. and JONES, C. J. Modification of the analgesic action of pethidine and morphine by three opiate antagonists, a respiratory stimulant (doxapram) and an anaesthetic (nikethamide); a study using an experimental pain stimulus in man.
- 326P ODUMOSU, A. and WILSON, C. W. M. Ascorbic acid and cholesterol mobilization by fenfluramine.
- 327P FOY, J. M. and STANDING, V. F. The effect of glibenclamide on two enzymes important in gluconeogenesis.
- 328P GHOSH, M. N. and PARVATHY, S. The effect of cyproheptadine on water and food intake and on body weight in the fasted adult and weanling rats.
- 329P BARBER, H. E. and BOURNE, G. R. Pyridostigmine pharmacokinetics: evidence for an apparent capacity limited urinary elimination of the metabolites of pyridostigmine.
- 330P BUTTERWORTH, K. R. and PELLING, D. The effect of acrylic bone cement on the circulation in the rabbit.
- 331P CHU, D. and STUERMER, E. (introduced by BERDE, B.) Studies on the mechanism of action of dihydroergotamine (DHE) on the vascular bed of cat skeletal muscle.
- 332P RICHARDSON, P. D. I. (introduced by MASON, D. F. J.) The actions of histamine on blood flow and capillary filtration coefficient (C.F.C.) in the cat small intestine.
- 333P BUTLER, K. and LEWIS, G. P. Biochemical and cellular changes in the Arthus reaction.
- 334P JASANI, M. K. A new approach for studying the influence of cyclophosphamide upon the rejection of rabbit skin homografts.
- 335P GREEN, K. L. (introduced by GINSBURG, M.) A pro-inflammatory effect of adrenaline in thermal injury.
- 336P GARNHAM, J., HICKS, DEBORAH C., RAYMOND, K., SHOTTON, E. (introduced by TURNER, P.) Some observations on blood level data following oral administration of aspirin as tablets and capsules.
- 336P BRECKENRIDGE, A., BURANAPONG, P., DOLLERY, C. T., GEORGE, C. F., MACERLEAN, D. and ORME, M. L'E. Hepatic clearance of propranolol in dogs.
- 337P ASSEM, E. S. K. and ATKINSON, G. Histamine release by MCDP (401), a peptide from the venom of the honey bee.
- 338P DAY, M. D. and MOORE, A. F. Potentiation by angiotensin II of noradrenaline-induced contractions of a rabbit isolated thoracic aorta.
- 340P BARRETT, A. M., CARTER, J., FITZGERALD, J. D., HULL, R. and LE COUNT, D. A new type of cardioselective adrenoceptive blocking drug.
- 340P HARRY, J. D., KNAPP, M. F. and LINDEN, R. J. The action of ICI-66082 on the heart.
- 341P CURWAIN, B. P., HOLTON, PAMELA and SPENCER, JAN. Enhancement by propranolol of gastric acid secretion in response to pentagastrin in conscious dogs.
- 342P HAINSWORTH, R., KARIM, F. and STOKER, J. B. (introduced by HARRY, J. D.) The blocking effects of propranolol, practolol and ICI-66082 on the peripheral vascular responses to isoprenaline.
- 343P DOLLERY, C. T., LEWIS, P. J., MYERS, M. G. and REID, J. L. Central hypotensive effect of propranolol in the rabbit.
- 343P BLACKHAM, A., FARMER, J. B., RADZIWIWNIK, H. and WESTWICK, J. Rabbit monoarticular arthritis and synovial prostaglandins.
- 344P RAO, V. S. N. and SHARMA, P. L. Effect of intraperitoneal administration of (+)-INPEA on oxytocin and prostaglandin evoked responses of the isolated rat uterus.
- 345P CLARK, E. R., EVANS, J. G. and JORDAN, V. C. Anti-oestrogenic activity in compounds related to ethamoxotriphenol (MER 25), clomiphene and MRL 37.
- 346P BARLOW, S. M., MORRISON, P. J. and SULLIVAN, F. M. Plasma corticosterone levels during pregnancy in the mouse.
- 346P VIZI, E. S. Does stimulation of $\text{Na}^+\text{-K}^+\text{-Mg}^{2+}$ -activated ATP-ase inhibit acetylcholine release from nerve terminals?
- 347P FERRES, HELEN M., NICHOLSON, A. N. and WRIGHT, CATHERINE M. (introduced by BRIMBLECOMBE, R.) Impaired performance of delayed matching in monkeys by heptabarbitalone, pentobarbitalone sodium and quinalbarbitalone sodium.
- 348P SPEIZER, ZIPORA, and WEINSTOCK, MARTA. The influence of propranolol on abnormal behaviour induced in rats by prolonged isolation—an animal model for mania?
- 349P BRIMBLE, M. J. and WALLIS, D. I. Atropine sensitivity of transmission and facilitation in the rabbit superior cervical ganglion.
- 350P BAXTER, M. G., MILLER, A. A. and WEBSTER, R. A. Some studies on the convulsant action of folic acid.
- 351P LEONARD, B. E. and RIGTER, H. Changes in brain monoamine metabolism associated with CO_2 -induced amnesia in rats.
- 352P CURZON, G. and KNOTT, P. J. Drugs influencing plasma and brain tryptophan. λ

Contents—continued

- 353P EDWARDS, C., NAHORSKI, S. R. and ROGERS, K. J. *In vivo* changes in the concentration of cerebral cyclic AMP, phosphorylase α and glycogen induced by biogenic amines.
- 354P GRIFFITHS, P. J., LITTLETON, J. M. and ORTIZ, A. (introduced by BROWNEE, G.) Evidence of a role for brain monoamines in ethanol dependence.
- 355P ATTERWILL, C. K. and NEAL, M. J. The subcellular distribution of ^{14}C - γ -aminobutyric acid GABA and ^3H -dopamine in the rabbit retina.
- 356P KEEN, P., MITCHELL, J. F. and ROBERTS, P. J. Application of the dansyl technique to an investigation into the identity of the primary sensory transmitter in the spinal cord.
- 357P BRAMWELL, G. J. and GONYE, T. (introduced by STRAUGHAN, D. W.) Responses of midbrain neurones to iontophoretically applied 5-hydroxytryptamine.
- 358P BRADSHAW, C. M., ROBERTS, M. H. T. and SZABADI, E. Comparison of the effects of imipramine and desipramine on single cortical neurones.
- 359P BENNETT, A. and STOCKLEY, HELEN L. Electrically induced contractions of guinea-pig isolated ileum resistant to tetrodotoxin.
- 360P COLEMAN, R. A. (introduced by LEVY, G. P.) Evidence for a non-adrenergic inhibitory nervous pathway in guinea-pig trachea.
- 361P BRIMBLECOMBE, R. W. and WEBB, SANDRA N. Further studies on the interaction between acetylcholine antagonists and anticholinesterases on cat soleus muscle.
- 362P AMBACHE, N. KILLICK, S. W. and ZAR, M. ABOO. Antagonism by burimamide of inhibitions induced by histamine in plexus-containing longitudinal muscle preparations from guinea-pig ileum.
- 363P JONES, R. L., KANE, KATHLEEN A. and UNGAR, A. The cardiovascular actions of prostaglandins C_1 and C_2 in the cat (T).
- 363P BLACK, J. W., OWEN, D. A. A. and PARSONS, M. E. Vascular histamine receptors in the rabbit (T).

Demonstrations

- 363P BEDELL, C. R., GOODFORD, P. J. NORRINGTON, F. E. and WILKINSON, S. A 'working' model of the haemoglobin molecule as a receptor for 2,3-diphosphoglycerate.
- 364P TONGE, SALLY R. (introduced by LEONARD, B. E.) Some persistent effects of the pre- and neonatal administration of psychotropic drugs on noradrenaline metabolism in discrete areas of rat brain.
- 365P BEVAN, P. and BRADSHAW, C. M. (introduced by ROBERTS, M. H. T.) A simple low-cost circuit for the programmed application of ejecting and retaining currents in microelectrophoresis experiments.
- 366P BARBER, H. E. and BOURNE, G. R. Scintillation counting: channels ratio and external standard channels ratio for the determination of counting in Triton X-100 based scintillants.
- 367P BALLANTYNE, B. and SWANSTON, D. W. (introduced by BESWICK, F. W.) Screening tests for assessing the relative potency of sensory irritant materials.
- 368P PULLMAN, L. G. and SCHOLFIELD, P. C. (introduced by ADAM, K. R.) The assessment of β -adrenoceptor blocking compounds in the conscious dog (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