

# British Journal of Pharmacology

- 5 TORDA, CLARA. Hypothalamic adrenaline synthesis after stimulation of the medial forebrain bundle
- 9 HIMORI, N. & TAIRA, N. Assessment of the selectivity of OPC-2009, a new  $\beta_2$ -adrenoceptor stimulant, by the use of the blood-perfused trachea *in situ* and of the isolated blood-perfused papillary muscle of the dog
- 19 BENTFELD, M., LÜLLMANN, H., PETERS, T. & PROPPE, D. Interdependence of ion transport and the action of ouabain in heart muscle
- 29 ARTUNKAL, AKGÜL A., MARLEY, E. & STEPHENSON, J.D. Some effects of intravenous prostaglandin  $E_1$  and endotoxin in young chickens
- 39 ARTUNKAL, AKGÜL A., MARLEY, E. & STEPHENSON, J.D. Some effects of prostaglandins  $E_1$  and  $E_2$  and of endotoxin injected into the hypothalamus of young chicks: dissociation between endotoxin fever and the effects of prostaglandins
- 47 BRITTAIN, R.T., JACK, D. & TYERS, M.B. Pharmacological and certain chemical properties of AH 10407, an unusually short-acting, competitive neuromuscular blocking drug, and some related compounds
- 57 MILLER, K.W. & YU, S-C. T. The dependence of the lipid bilayer membrane: buffer partition coefficient of pentobarbitone on pH and lipid composition
- 65 DUGGAN, A.W., HALL, J.G. & HEADLEY, P.M. Suppression of transmission of nociceptive impulses by morphine: selective effects of morphine administered in the region of the substantia gelatinosa
- 77 CHAI, C.Y. & LIN, M.T. The enhancement of chlorpromazine-induced hypothermia by lesions in the anterior hypothalamus
- 83 COX, B. & LEE, T.F. Do central dopamine receptors have a physiological role in thermoregulation?
- 87 BORN, G.V.R. & FOULKS, J.G. Inhibition by a stable analogue of adenosine triphosphate of platelet aggregation by adenosine diphosphate
- 91 RUDY, T.A. & YAKSH, T.L. Hyperthermic effects of morphine: set point manipulation by a direct spinal action
- 97 MORISSET, J., NG, K.H. & POIRIER, G.G. Comparative inhibitory effects of 3-quinuclidinyl benzilate (QNB) and atropine on amylase release from rat pancreas
- 101 FLYNN, SHEILA B., JOHNSTON, BARBARA M. & OWEN, D.A.A. The cardiovascular response to dimaprit, a selective histamine  $H_2$ -receptor agonist
- SHORT COMMUNICATION**
- 109 PICKLES, V.R. Effects of *N*-benzyl-L-valine on contractions of guinea-pig myometrium *in vitro*
- 111 PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY, Newcastle upon Tyne, 13th–15th July, 1977

PROCEEDINGS OF THE BRITISH PHARMACOLOGICAL SOCIETY  
Newcastle upon Tyne, 13th–15th July, 1977

- 111P ATTERWILL, C.K. & PRINCE, A.K. (introduced by Brownlee, G.). Ontogenesis of the multiple forms of choline acetyltransferase: uptake and acetylation of choline in rat brain
- 112P HIGGINS, A.J. & NEAL, M.J. Activation of high affinity choline uptake in sympathetic ganglia by potassium depolarization
- 113P AMBACHE, N., DALY, SUSAN, KILLICK, S.W. & WOODLEY, JANETTE P. Differentiation of neurogenic inhibition from ATP-responses in guinea-pig taenia caeci
- 115P HINDMARSH, J.R., IDOWU, O.A., YEATES, W.K. & ZAR, M.A. Pharmacology of electrically evoked contractions of human bladder
- 115P TURNER, N. & WEETMAN, D.F. Temperature-dependent effects of autonomic drugs on the response of the guinea-pig isolated bladder to parasympathetic nerve stimulation
- 116P BENTLEY, SUSAN M., DREW, G.M. & WHITING, SUSAN B. Evidence for two distinct types of postsynaptic  $\alpha$ -adrenoceptor
- 117P CROCKER, ANN D., MAYEKA, I.M. & WILSON, K.A. Calcium, cyclic amp and the response of rat descending colon to angiotensin, to prostaglandin  $E_2$  and to potassium chloride
- 118P CALLINGHAM, B.A. Substrate selective inhibition of monoamine oxidase by mexiletine
- 119P CHIU, A., ECCLESTON, D. & PALOMO, T. (introduced by Yates, C.M.). A model to test the relative potencies of phosphodiesterase inhibitors in brain (*in vivo*)
- 120P ARGENT, B.E., CASE, R.M., SMITH, P.A. & SUNTER, J.P. (introduced by Zar, M.A.). The effect of chronic administration of D-penicillamine on the rat pancreas
- 121P O'BRIEN, M.J., ALLIN, C.N., BIRCH, N.J. & HULLIN, R.P. Inhibition of rabbit muscle pyruvate kinase by lithium
- 122P GIBSON, A. & STREET, CAROLINE V. Tissue variability and some properties of the accumulation of [ $^3H$ ]-corticosterone by isolated organs
- 123P CLARKE, G., HERRING, LYNDIA P. & LINCOLN, D.W. Two separate cholinergic mechanisms for regulation of oxytocin release
- 124P MAIN, I.H.M. & PEARCE, J.B. Effect of calcium on acid secretion by the isolated rat gastric mucosa
- 124P BLOWER, P.R., FLACK, J.D. & DAY, M.D. The effects of some gastrointestinal hormones and metoclopramide on cardiovascular dopamine receptors
- 125P FLYNN, SHEILA B., GRISTWOOD, R.W. & OWEN, D.A.A. The effects of histamine and selective histamine receptor agonists on the isolated working guinea-pig heart preparation
- 126P BELL, G.J., HILEY, C.R. & YATES, M.S. The effects of four general anaesthetic agents on the regional distribution of cardiac output in the rat
- 128P MARSHALL, I., NASMYTH, P.A. & SHEPPERSON, N.B. The relationship between pre-synaptic  $\alpha$ -adrenoceptors, stimulation frequency and calcium
- 129P MARSHALL, I., NASMYTH, P.A., RUSSELL, G.K. & SHEPPERSON, N.B. Ergometrine: a pre-synaptic  $\alpha$ -adrenoceptor agonist
- 130P BORKOWSKI, K.R. & FINCH, L. Cardiovascular responses to centrally administered adrenaline in spontaneous hypertensive rats
- 130P FOZARD, J.R., MOBAROK ALI, A.T.M. & NEWGROSH, G. Selective blockade of pre-synaptic tryptamine receptors by (–)-cocaine and (+)-cocaine
- 131P FRENCH, A. McK. & SCOTT, N.C. A benzotriazinium salt as a potential antiarrhythmic agent
- 133P HARRIS, J.B. JOHNSON, MARGARET A. & MACDONELL, CHARLOTTE. Taipoxin, a pre-synaptically active neurotoxin, destroys mammalian skeletal muscle
- 133P TAYLOR, W. & LESNA, MILENA. (introduced by Zar, M.A.). The hepatotoxicity of lithocholic acid in male mice

- 134P GOLDBERG, A., MEREDITH, P.A., MILLER, S., MOORE, M.R. & THOMPSON, G.G. Haem biosynthesis and hepatic drug metabolism in lead poisoned rats
- 135P CALDWELL, J., NOTARIANNI, LIDIA J., SMITH, R.L. & SNEDDEN, W. The metabolism of bupivacaine in the rat
- 136P ARMSTRONG, J.M., CHAPPLE, D., DUSTING, G.J., HUGHES, R., MONCADA, S. & VANE, J.R. Cardiovascular actions of prostacyclin (PGI<sub>2</sub>) in chloralose anaesthetized dogs
- 137P HIGGS, G.A., MONCADA, S. & VANE, J.R. Prostacyclin (PGI<sub>2</sub>) inhibits the formation of platelet thrombi induced by adenosine diphosphate (ADP) *in vivo*
- 138P WESTWICK, J. (introduced by Lewis, G.P.). Modulation of thrombus formation *in vivo* by prostaglandins
- 139P MAIN, I.H.M. & MELARANGE, R. Inhibition of bile salt-induced gastric mucosal erosions by 16,16 dimethyl prostaglandin E<sub>2</sub> in the rat
- 140P ANDERSON, A.A., FLETCHER, THELMA C. & SMITH, G.M. The presence of a prostaglandin-like substance in the skin of the plaice, *Pleuronectes platessa* L.
- 140P GORDON, J.L., MacINTYRE, D.E. & McMILLAN, R.M. Stimulation of platelets and macrophages by carrageenin
- 142P JENNER, P., MARSDEN, C.D. & PYCOCK, C.J. Chronic amphetamine administration and central dopamine receptor sensitivity
- 142P GORDON, J.L. & OLVERMAN, H.J. Transport of dopamine by rat blood platelets
- 144P CAIRNCROSS, K.D., COX, B., SCHNIEDEN, H. & WREN, ALLISON. Modification by antidepressant drugs of plasma corticosterone levels in the stressed bulbectomized rat
- 145P CAIRNCROSS, K.D., COX, B., FORSTER, C. & WREN, A. The ability of local injection of 6-OHDA, 5,6-DHT and 5,7-DHT into the olfactory bulbs, to mimic the effects of bilateral bulbectomy in the rat
- 146P BUCKETT, W.R., CROSSLAND, N.J., GALT, R.H.B., MATUSIAK, Z., PEARCE, R.J., SHAW, J.S. & TURNBULL, M.J. The xanthene-spiropiperidines: a new group of centrally-active drugs
- 147P BRADLEY, P.B., GAYTON, R.J. & LAMBERT, LYNN A. A microiontophoretic study of enkephalin and enkephalin analogues on brain stem neurones in the rat
- 148P CURTIS, D.R., JOHNSTON, G.A.R. & LODGE, D. *In vivo* effects of GABA uptake inhibitors on the response of cat spinal neurones to GABA analogues
- 149P DUGGAN, A.W. & HEADLEY, P.M. The effects of noradrenaline and 5-hydroxytryptamine on the responses of dorsal horn neurones to noxious and innocuous skin stimuli
- 149P BELCHER, G. (introduced by Ryall, R.W.). Correlation between effects of brain-stem stimulation and effects of 5-hydroxytryptamine and noradrenaline on non-nociceptive and nociceptive spinal interneurons
- 150P MUNDAY, K.A., POAT, JUDITH A., WATLING, K.J. & WOODRUFF, G.N. On the structural requirements for dopamine-like activity in homogenates of rat nucleus accumbens
- 151P BAKER, G.B., MARTIN, I.L. & MITCHELL, P.R. (introduced by Bradley, P.B.). The effects of some indolalkylamines on the uptake and release of 5-hydroxytryptamine in rat striatum
- 152P MORINAN, A. & LEONARD, B.E. Effects of chronic (±)propranolol on catecholamines and GABA in rat striatum
- 153P KUMAR, R., MUMFORD, L. & TEIXEIRA, A.R. Reactions of morphine-dependent rats to changes in their usual daily dose
- 153P CLINGBINE, G. (introduced by Heading, C.E.). Effect of vinblastine sulphate on the acquisition of a conditioned avoidance response in the goldfish
- 155P ALLAN, W., GASCOIGNE, K., LUDLOW, J. & SMITH, J.W. (introduced by Harris, J.B.). A modular system of instruments for simple experiments on skeletal muscle using intracellular micro-electrode techniques
- 155P SPEDDING, M. A modified guinea-pig stomach preparation

- 56P BESWICK, SUSAN P., DAVIES, JACQUELINE S. & GOADBY, P. Regional perfusion of the airways of guinea-pig lung: a selective action of histamine on the smooth muscle of the small airways
- 57P IDOWU, O.A. & ZAR, M.A. The use of rat atria as a simple and sensitive *in vitro* preparation for detecting pre-synaptic actions of drugs on adrenergic transmission
- 57P SHABAYEK, H.A. & TROUNCE, J.R. Effect of vinblastine and mustine on the distribution of T and B-lymphocytes
- 158P DOWNING, I. & WILLIAMS, K.I. Differential prostaglandin production by microsomal fractions of rat pregnant uterus
- 158P BOLAM, J.P. & SMITH, M.J.H. Accumulation of platelets at acute inflammatory sites
- 159P DOW, J. & HALL, K. (introduced by Rawlins, M.D.). Estimation of plasma nicotine by combined capillary column gas chromatography–mass spectrometry