Edited for the British Pharmacological Society by

A.W. Cuthbert (Chairman) A. Ungar (Secretary)

Margaret Day (Press Editor)

A. Ungar (Secretary)

J.D. Stephenson (Assistant Press Editor)

A.M. Barrett R. McBurney A.T. Birmingham D.S. McQueen C.A. Marsden G.W. Bissett A.G.H. Blakeley I. Marshall K. Martin T.B. Bolton D.F.J. Mason N.G. Bowery Julia Buckingham

S. Moncada

T.C. Maiir T.C. Muir J.B. Caldwell B.A. Callingham J.R. Parratt Maureen M. Dale M.E. Parsons J.C. Foreman Priscilla J. Piper . N.L. Poyser A.R. Green C.D. Richards R. Hoult T.W. Robbins J. Hughes L. Iversen G.C.K. Roberts T.W. Stone R. Jones E. Szabadi B.J. Large

G.M. Lees E.M. Vaughan Williams

W.E. Lindup P. Withrington

G.N. Woodruff

Papers will be considered for publication on all aspects of drug action, including chemotherapy.

Manuscripts (two copies) should be sent to Dr A. Ungar, Department of Pharmacology, University of Edinburgh Medical School, 1 George Square, Edinburgh EH8 9JZ. Authors should consult the instructions inside the back cover.

The British Journal of Pharmacology is published monthly by Scientific & Medical Division, Macmillan Publishers Ltd, Houndmills, Basingstoke, Hampshire RG21 2XS. Telephone: Basingstoke 29242. ISSN 0306-5251.

Annual subscription UK £97.50; USA & Canada, US \$245, Airmail US \$330; Rest of world, £115, Airmail £140 (or equivalent in any other currency). (Orders must be accompanied by remittance. Prices correct at time of publication.)

Cheques should be made payable to Macmillan Journals Limited: Subscription Department, Brunel Road, Basingstoke, Hampshire RG21 2XS, England.

Overseas subscribers may make payments into UK Post Office Giro Account No. 519 2455. Full details must accompany the payment.

Enquiries concerning advertising space and rates should be addressed to: Advertisement Department, Macmillan Journals Limited, 4 Little Essex Street, London WC2R 3LF. Telephone: 01-836 6633.

Copyright © 1981 by the *British Journal of Pharmacology*. All rights of reproduction are reserved in respect of all papers, articles, illustrations, etc., published in this journal in all countries of the world.

Second class postage paid at New York, N.Y. US Mailing Agent: Expeditors of the Printed Word, Inc., Suite 1217, 527 Madison Avenue, New York, NY 10022.

Registered Office: 4 Little Essex Street, London WC2R 3LF

British Journal of Pharmacology

CONTENTS

VOLUME 72 NUMBER 1 JANUARY 1981

SHORT COMMUNICATIONS

- 5 RUSSELL, D.C. Haemodynamic effects of sulphinpyrazone in experimental myocardial ischaemia
- 8 MARY, P.L. & RAO, J. PRAKASA Type of adrenoceptors involved in induction by adrenaline of hepatic alkaline phosphatase in mice in vivo
- 10 KARANIAN, J.W., MORAN, F.M., RAMEY, E.R. & RAMWELL, P.W. Gender differences in prostaglandin receptors of rat aorta
- 13 GILLAN, MAUREEN G.C., KOSTERLITZ, HANS W. & MAGNAN, JACQUES Unexpected antagonism in the rat vas deferens by benzomorphans which are agonists in other pharmacological tests

- 17 FELDBERG, W. & ROCHA E. SILVA, M. Inhibition of vasopressin release to carotid occlusion by γ-amino-butyric acid and glycine
- 25 FRICKE, UWE, KLAUS, WOLFGANG & ROGATTI, MICHAEL Active site-directed alkylation of Na⁺-K⁺-ATPase by digitalis sulphonate derivatives of different lipophilicity
- 31 AUNIS, DOMINIQUE & GARCÍA, ANTONIO G. Correlation between catecholamine secretion from bovine isolated chromaffin cells and [3H]-ouabain binding to plasma membranes
- 41 DURANT, NICHOLAS N. & LAMBERT, JEREMY J. The action of polymyxin B at the frog neuromuscular junction
- 49 DALY, M.J., HUMPHRAY, JANET M. & STABLES, R. Some in vitro and in vivo actions of the new histamine H₂-receptor antagonist, ranitidine
- 55 DALY, M.J., HUMPHRAY, JANET M. & STABLES, R. Antagonism of vasodepressor and gastric secretory responses to histamine by the H₂-receptor antagonists, ranitidine and cimetidine, in the anaesthetized dog
- 61 ITO, S., NAKAZATO, Y. & OHGA, A. Further evidence for the involvement of Na⁺ channels in the release of adrenal catecholamine: the effect of scorpion venom and grayanotoxin I

- 69 ANDERTON, BRIAN H., AXFORD, JOHN S., COHN, PETER, MARSHALL, NICHOLAS J., SHEN, LI & SPRAKE, SALLY Inhibition of lymphocyte capping and transformation by propranolol and related compounds
- 75 ANGEL, A. & CLARKE, K.A. The effects of trimethadione on pentetrazol-induced discharges of primary muscle spindle afferents from the hind limb of the rat
- 81 KINDNESS, G., LONG, W.F. & WILLIAMSON, F.B. The anticoagulant activity of dermatan sulphates: evidence against the involvement of antithrombin III
- 89 PIPILI, EVA & POYSER, N.L. Effects of nerve stimulation and of administration of noradrenaline or potassium chloride upon the release of prostaglandins I₂, E₂ and F_{2x} from the perfused mesenteric arterial bed of the rabbit
- 95 BATCHELOR, K.W. & STANWORTH D.R. The effects of nonidet P40 on the function of rat peritoneal mast cells in vitro
- 101 BOTTING, J.H. Spurious effects of commercial preparations of oxytocin on the isolated vas deferens of the rat
- 103P PROCEEDINGS OF THE ITALIAN AND BRITISH PHARMACOLOGICAL SOCIETIES, Verona, Italy, 30th June and 1st July, 1980
- 103P BERTACCINI, G. & SCARPIGNATO, C. Effects of some cholecystokinin (CCK)-like peptides on gastric emptying of a liquid meal in the rat
- 104P BELL, G.D., CLEGG, R.J., COHN, M.R., DUGGLEBY, J.E., ELLIS, W.R., MACDONALD, I.A., MIDDLETON, B. & WHITE, D.A. Terpene therapy for gallstones—effects of individual monoterpenes on bile flow, bile composition and hepatic cholesterogenesis in the rat
- 106P CAPARROTTA, L., FASSINA, G., GAION, R.M. & TESSARI, F. Age-related changes in the antilipolytic action of nicotinic acid
- 107P CUMAN, R., GIRALDI, T., LASSIANI, L., NISI, C. & SAVA, G. Mechanism of the antileukaemic action of dimethyltriazenes in mice

- 107P ARMSTRONG, J.M., CAVERO, I. & LEFÈVRE-BORG, FRANÇOISE Comparison of the bradycardia produced by oxymetazoline and clonidine in urethane and pentobarbitone anaesthetized rats
- BIGON, E., BRUNI, A., MIETTO, L., TARJAN, E.M.
 TOFFANO, G. Lysophosphatidylserine-induced mast cell activation in vivo
- 109P BLANDINA, P., FANTOZZI, R., MANNAIONI, P.F. & MASINI, EMANUELA Muscarinic cholinoceptors in rat mast cells: demonstration by direct binding
- 110P BRIGONZI, A., CLEMENTI, F., TRONCONI, B. CONTI, FUMAGALLI, G. & SHER, E. Acetylcholine receptor degradation in rat myotubes in vitro: effect of myasthenic sera and of drugs used in the treatment of myasthenia gravis
- 111P ELLIOT, R.C. Studies on the interaction of methohexitone and suxamethonium or acetylcholine on the chick biventer cervicis preparation
- Effects of emetine on rat skeletal muscle fibres after chronic application to the nerve

112P CONTE-CAMERINO, D. & MITOLO-CHIEPPA, D.

- 113P CONSTANTI, A. & NISTRI, A. L-Cysteate mimics the action of L-aspartate on lobster muscle
- 114P MARSHALL, R.J. & MUIR, A.W. The antiarrhythmic haemodynamic and metabolic effects of a new antianginal agent, bepridil, in the early stages of canine acute myocardial infarction
- 115P BANDINELLI, R., FRANCONI, FLAVIA, GIOTTI, A., MARTINI, F., MONETI, G., STENDARDI, ISA-BELLA & ZILLETTI, LUCILLA The positive inotropic effect of taurine and calcium and the levels of taurine in ventricular strips
- 116P GIBBONS, W.R., MUGELLI, A. & VASSALLE, M. A pharmacological study of the oscillatory current in cardiac Purkinje fibres
- 116P FADLOUN, Z. & LEACH, G.D.H. Effect of chemical sympathectomy on the changes in adrenergic function caused by chronic Cd²⁺ treatment in the rat
- 119P HAMILTON, C.A. & REID, J.L. The effect of 6-hydroxydopamine on rabbit peripheral alpha adrenoceptors in vivo and in vitro
- 120P DOCHERTY, J.R., MADJAR, H. & STARKE, K. An investigation of pre- and postsynaptic α-adrenoceptors in the rabbit hindlimb
- 121P LANGER, S.Z., MASSINGHAM, R. & SHEPPER-SON, N.B. An explanation of the resistance of the noradrenaline pressor response to prazosin blockade in vivo
- 123P LANGER, S.Z., MASSINGHAM, R. & SHEPPER-SON, N.B. Differential sensitivity to prazosin blockade of endogenously released and exogenously administered noradrenaline: possible relationship to the synaptic location of α_1 and the extrasynaptic location of α_2 -adrenoceptors in dog vascular smooth muscle

- 124P GARGIULO, G., NISTICÒ, G., ROTIROTI, D., SIL-VESTRI, R. & STEPHENSON, J.D. Stereotyped behaviour in fowls elicited by apomorphine given into the optic ventricle and into the nucleus spiroformis lateralis
 124P MEMO, M., SPANO, P.F. & TRABUCCHI, M.
- Characterization and localization of dopamine-D₂ central receptors

 125P. TIMIPAS PS & VACCAPI A Thyroid designation
- 125P TIMIRAS, P.S. & VACCARI, A. Thyroid dysfunction and striatal dopamine receptors
- 126P ALDRIDGE, S.J. & MARSDEN, C.A. Effects of pentobarbitone on uptake and release of [3H]-dopamine from a crude striatal synaptosome preparation
- 127P CERRITO, F. & RAITERI, M. Dopamine rcuptake as a major feedback mechanism controlling dopamine synthesis
- 128P BARTHOLINI, G., LLOYD, K.G., SCATTON, B. & WORMS, P. Cortical influences on striatal function in the rat
- 129P FREEDMAN, S.B. & WOODRUFF, G.N. Effect of drugs on [³H]-sulpiride binding in rat striatal synaptic membranes
- 130P JENNER, P., MARSDEN, C.D., REAVILL, C. & THEODOROU, A. Reduction of specific [³H]-sulpiride binding sites in rat striatum following decortication or striatal kainic acid lesions
- 131P BARBAT, J. & WARRINGTON, S.J. (introduced by TURNER, P.) Effects of cimetidine and ranitidine on some non-invasive indices of cardiac function
- 131P BRADSHAW, C.M., GASZNER, P. & SZABADI, E. Comparison of the peripheral anticholinergic activities of DL-308, a potential new neuroleptic, of thioridazine and atropine in healthy volunteers
- 133P PERUCCA, E., PICKLES, H., QUY, R. & RICHENS, A. A standardized method for assessing the effect of β -adrenoceptor blocking drugs upon isoprenaline-induced physiological tremor and tachycardia: a test for cardioselectivity?
- BIRMINGHAM, A.T., ROLAND, J., WHARRAD, HEATHER J., WILLIAMS, E.J. & WILSON, C.G. Effects of atenolol and propranolol on finger tremor in man
- 135P JOHNSTON, A., BURGESS, C.D., HENRY, J.A., HATHWAY, N.R. & HAMER, J. Mexiletine elimination: influence of urinary pH and volume
- 135P BIANCHETTI, G., BOUTROY, M.J., DUBRUC, C., MORSELLI P. L. & VERT, P. Placental transfer and pharmacokinetics of acebutolol and N-acetyl acebutolol in the newborn
- 136P BLACKWELL, G.J., CARNUCCIO, R., DI ROSA, M., FLOWER, R.J. & PARENTE, L. Storage and steroid-induced release from rat leucocytes of a phospholipase inhibitor

- 137P CONFORTI, A., FRANCO, L., MILANINO, R. & VELO, G.P. Serum copper concentration and ceruloplasmin activity during carrageenan foot oedema in rat
- 138P EL TAHIR, K.E.H. & WILLIAMS, K.I. Lipoxygenase products derived from blood elements within the decidua of the rat pregnant uterus inhibit myometrial pros-
- 139P SALVATI, PATRICIA & WHITTLE, B.J.R. Vascular actions of prostaglandins on the isolated perfused stomach of the rabbit

tacyclin formation

effect of aspirin

- BERTI, F., FOLCO, G.C., OMINI, C., ROSSONI, G. & VIGANÒ, T. Relationship between bronchoconstriction and thromboxane A₂ formation in the guinea-pig:
- 141P BIANCHI PORRO, G., CARUSO, I., CIABATTONI, G., PATRIGNANI, P., PATRONO, C. & PUGLIESE, F. Comparative effects of aspirin and diffunisal on platelet and gastric prostaglandin-synthetase in humans

142P BOWERY, N.G., SHAW, J.S., TURNBULL, M.J. & WARRINGTON, RUTH Inhibitors of neuronal

- GABA uptake potentiate the inhibitory effect of GABA on the field-stimulated guinea-pig vas deferens preparation

 143P HAY, D.W.P. & WADSWORTH, R.M. Potassium contractures in the rat isolated vas deferens: the role of noradrenaline release and of extracellular calcium
- 144P SPEDDING, M. Marked differences in the effects of 'Ca²⁺-antagonists' on CaCl₂-induced contractions in K⁺-depolarized smooth muscle
 145P BRAMBILLA, G., CAVANNA, M., DE FLORA, S.,
- PARODI, S., PINO, A. & ROBBIANO, L. DNA-damaging and mutagenic activity of five hydrazine derivative monoamine oxidase inhibitors

 146P BANCHELLI SOLDAINI, G. & BUFFONI, F. Histo-
- chemistry of porcine tissues using antibodies to pig plasma amine oxidase

 146P DI GIULIO, A.M., GROPPETTI, A. & MANTE-GAZZA, P. Effect of reserpine on met-enkenhalin-like
- material concentrations in the rat adrenal gland

 147P MANARA, L., MONFERINI, EUGENIA &
 STRADA, D. Rat small intestine contains opiate receptor binding and a potent interfering factor
- 148P ANTONELLI, T., BEANI, L., BIANCHI, C., PEDATA, F. & PEPEU, G. The effects of electrical stimulation, high K⁺ concentrations, atropine and physostigmine on high affinity choline uptake (HACU) in guinea-pig brain slices
- 149P CASAMENTI, F., CORRADETTI, R., MORONI, F. & PEPEU, G. The efflux of endogenous GABA and glutamate from the rat parietal cortex in vivo
- 150P APUD, J.A., CASANUEVA, F., CIVATI, C., COCCHI, D., LOCATELLI, V., MÜLLER, E.E. & RACAGNI, G. Central nervous system derived GABA influences plasma GABA concentrations and prolactin secretion

- 151P COCCHI, D., MARTINEZ-CAMPOS, A., MÜLLER, E.E. & ZANARDI, P. Neuroendocrine studies in a rat model mimicking Huntington's disease
 - 51P BENNETT, G.W. & KEELING, M. H₂-mediated histamine induced release of thyrotrophin releasing hormone (TRH) from hypothalamic synaptosomes: a neuroendocrine role for histamine
- 52P BRILEY, M., LANGER, S.Z., RAISMAN, RITA, SECHTER, D. & ZARIFIAN, E. High-affinity binding of [3H]-imipramine to human platelets: differences between untreated depressed patients and healthy volunteers

154P ARBILLA, SONIA, BRILEY, M., CATHALA, FRAN-

ÇOISE, LANGER, S.Z., PORNIN, CLAUDIE & RAISMAN, RITA Parallel changes in [3H]-imi-

- pramine binding sites in cat brain and platelets following chronic treatment with imipramine

 55P FERRI, S., SCOTO, G.M. & SPADARO, C. Increase of opioid activity in the rat pituitary following the administration of pulsivide
- 155P FERRI, S., SCOTO, G.M. & SPADARO, C. Increase of opioid activity in the rat pituitary following the administration of sulpiride
 156P ALGERI, S., DE SIMONI, M.G., JIRITANO, L. & MISTEREK, K. Tolerance and cross-tolerance between

D-Ala² methionine-enkephalinamide and morphine on their action on motor behaviour and on the metabolism of dopamine and serotonin in some rat brain

- areas

 156P BARTOLINI, A., BARTOLINI, R., BISCINI, A., GIOTTI, A. & MALMBERG, P. Investigations into baclofen analgesia: effect of naloxone, bicuculline, atropine and ergotamine
- 157P HENRY, J.L. (introduced by COMMISSIONG, J.W.)
 Naloxone excitation of spinal nociceptive units fails to
 occur in hypophysectomized cats
 158P BEANI, L., BIANCHI, C. & SINISCALCHI, A. Naloxone reversal of morphine inhibition on electrically-
- evoked ACh release from guinea-pig thalamus in vitro

 159P GALVAN, M., GRAFE, P. & TEN BRUGGENCATE,
 G. Presynaptic actions of GABA on rat isolated sympathetic ganglia demonstrated in the presence of
 4-aminopyridine
 - 160P ANNUNZIATO, L., CERRITO, F. & RAITERI, M. Dopamine: spontaneous and drug-evoked release from presynaptic nerve endings of the tuberoinfundibular system
 - 161P CURRUBA, M.O., MANTEGAZZA, P., MÜLLER, E.E. & RICCIARDI, S. Effects of anorectic drugs on the hyperphagic response induced by insulin or 2-deoxy-d-glucose glucoprivation
 - 162P DE CARO, G., MASSI, M. & MICOSSI, L.G. Effects of crinia-angiotensin II on drinking behaviour of rats and pigeons
 - 163P ADEMBRI, G., GALLI, A., GIOTTI, A., LUZZI, S., SCOTTON, MIRELLA & ZILLETTI, LUCILLA Interaction of N-acyl and N-sulphonyl derivatives of homotaurine (3-aminopropanesulphonic acid) with GABA receptor sites and their effects on the central nervous system of the rat

- 164P ABBOTT, R. & NAHORSKI, S.R. A radioreceptor assay using [3H]-muscimol for GABA in human cerebrospinal fluid
- 165P DICKINSON, K.E.J., NAHORSKI, S.R. & WILL-COCKS, A.L. Serotonin recognition sites are labelled in cerebral cortex by the β-adrenoceptor antagonist [125I]-hydroxybenzylpindolol
 - E., PETROGALLI, R. & RACAGNI, G. Differences in the development of tolerance to morphine and D-ala²-methionine-enkephalin in two inbred strains of mice 67P DI GIULIO, A.M., MANTEGAZZA, P., PANERAI,

166P BRUNO, F., CARENZI, A., FRIGENI, V., IULIANO,

- DI GIULIO, A.M., MANTEGAZZA, P., PANERAI, A. & PERALTA, E. Effect of hyperprolactinemia on β-endorphin and met-enkephalin concentrations in brain and pituitary
 BABBINI, M., BARTOLETTI, M. & GAIARDI, M.
- Behavioral effects of chlorpromazine and chlordiazepoxide in rats: qualitative or quantitative differences?

 168P CORTESE, I., CRISTINO, R. & CUOMO, V. Behavioural effects induced by low doses of methylmercury in
- 169P DALL'OLIO, R., GANDOLFI, O. & MONTANARO,
 N. Neurotoxic lesion of the median raphe nucleus protects rats from electroconvulsive shock-induced retrograde amnesia of passive avoidance conditioning
- 170P BREZENOFF, H.E., CAPUTI, A.P., CARNEY, K., LAMPA, E., MARMO, E. & ROSSI, F. Role of brain acetylcholine in reflex control in the conscious rat
 170P HAY, D.W.P. & WADSWORTH, R.M. The contractile
- 170P HAY, D.W.P. & WADSWORTH, R.M. The contractile effects of 5-hydroxytryptamine on the rat isolated vas deferens

171P BHALLA, P. & MARSHALL, I. Post-junctional lo-

- cation of histamine receptors in mouse and rabbit vasa deferentia

 172P BORKOWSKI, K.R., HICKS, P.E. & MOORE, R.A.
- The effects of indapamide on the responses to electrical stimulation of *in vitro* preparations from the rat

 173P BUFFONI, F., CORRIAS, M. & PIRISINO, R. Inhibition of noradrenaline uptake by N-methyl-benzy-
- lamine

 174P DEL BIANCO, P.L., FANCIULLACCI, M. & SICUTERI, F. Local (iris, vein) pharmacological tests in
 morphine addiction
- 175P BERTOLASI, V., BOREA, P.A., GILLI, G. & SACER-DOTI, M. Structure-activity relationships in histamine H₁ receptor antagonists
- 175P MARTORANA, M.G. & RODGER, I.W. Effects of Ca²⁺ withdrawal and verapamil on excitation-contraction coupling in sensitized guinea-pig airway smooth muscle
- 176P CRAGGS, M.D., HODSON, STEPHANIE G. & STE-PHENSON, J.D. An *in vitro* and *in vivo* comparison of the effects of cholinoceptor blockade on cat and baboon urinary bladders
- 177P BERNARDINI, C., DEL TACCA, M., MARTI-NOTTI, E. & SOLDANI, G. β_2 Adrenoceptor agonists inhibit gastric acid secretion in Shay rats

- 178P CESERANI, R., FAUSTINI, F., LONGIAVE, D., MIZZOTTI, B. & POZZI, O. 11-deoxy-13,14-didehydro-16S-methyl-PGE₂ (K11550), a new antiulcer agent
 179P BRILEY, M.S., LANGER, S.Z. & PIMOULE, CAR-
- MEN Changes in [3H]-clonidine binding after shortterm surgical denervation of rat submaxillary gland
- 180P D'AMICO, K.M., DAVIS, S.S., FRIER, M., HANS-RANI, P., HARDY, J.G. & WILSON, C.G. Effects of emulsifiers on the elimination of intravenously-administered fat emulsions measured by gamma scintigraphy
 181D CHIESARA F. CLEMENTI, F. DIZZI, A. COVA
- 181P CHIESARA, E., CLEMENTI, F., BIZZI, A., COVA, D., MARABINI, L. & DELLA TORRE, P. Long-term feeding of rats with semi-synthetic diets substituted in protein components: effect on kidney and liver
 181P COCCIA, P., CROCI, T. & MANARA, L. Less TCDD
 - persists in liver 2 weeks after a single dose to mice fed chow with added charcoal or cholic acid 82P BARTHOLEYNS, J., FOZARD, J.R. & PRAKASH, N.J. Dexamethasone inhibition of carrageenan paw oedema in the rat requires de novo synthesis of putres-
- 183P HARROWING, P.D. & WILLIAMS, K.I. The prostaglandin synthesis inhibitor in placental homogenates is located in trapped blood elements
- 184P CORTE, LAURA DELLA, GIOVANNINI, MARIA GRAZIA, MARTINI, P., MEGAZZINI, IRENE, PULITI, ROBERTA, SGARAGLI, G.P. & WONDRAK, GLORIA In vivo N-dealkylation of chlorpromazine and chlorimipramine: a single-dose kinetic study in the rat
- 185P BENONI, G., BERTAZZONI-MINELLI, E., FRA-CASSO, M.E. & LEONE, R. Biliary excretion of β-lactamines in rats: in vitro and in vivo determination
- 186P BRAMBILLA, G., CARLO, P., FINOLLO, R., GIAR-ETTI, W., MARTELLI, A., PALA, M., PARODI, S. & TANINGHER, M. An extremely sensitive new method for evaluating DNA damage induced by mutagens and carcinogens
- 187P GEROSA, F., PEZZINI, A., PIZZIGHELLA, S., RIVIERA, A.P. & TRIDENTE, G. Role of agonists and antagonists of histamine lymphocyte receptors on functional expression of the immune system
- 188P CARPI, C., DORIGOTTI, L. & SEMERARO, C. Cadralazine and its identified metabolites: comparative effects on blood pressure and on arterial smooth muscle
- 189P FADLOUN, Z. & LEACH, G.D.H. The effects of Cd²⁺ on the responsiveness of the rat isolated perfused kidney to periarterial stimulation, noradrenaline and potassium ions
- 190P BOUDOT, J.P., CAVERO, I. & FEUVRAY, D. Further studies on the effects of diltiazem on the rabbit isolated heart perfused with an oxygenated or a hypoxic solution: correlation between ultrastructural and mechanical effects
- 191P CALLANAN, K. & KEENAN, A.K. The presynaptic effects of isoprenaline, D600 and dantrolene in rat atria
- 192P BHARGAVA, K.P., PANT, K.K. & TANGRI, K.K. Role of α-adrenoceptors in the spinal cord in myocardial infarction-induced cardiac arrhythmias

VOLUME 72 NUMBER 2 FEBRUARY 1981

SHORT COMMUNICATION

197 BERTACCINI, G. & CORUZZI, G. Effect of impromidine (SK & F 92676) on the isolated papillary muscle of the guinea-pig

- 201 BAUER, V. Distribution and types of adrenoceptors in the guinea-pig ileum: the action of α -and β -adrenoceptor agonists
- 211 ALDEEN, SUSAN I., ELLIOTT, R.C. & SHEARDOWN, M. The partial purification and bioassay of a toxin present in extracts of the sea anemone, *Tealia felina* (L.)
- 221 BERTACCINI, G., DE CASTIGLIONE, R. & SCARPIGNATO, C. Effect of substance P and its natural analogues on gastric emptying of the conscious rat
- 225 OCHILLO, RICHARD F., TSAI, CHENG S. & TSAI, MEI H. Mechanism of action of muscarine on the longitudinal muscle of the guinea-pig isolated ileum
- 233 CHAND, NARESH 5-Hydroxytryptamine induces relaxation of goat pulmonary veins: evidence for the noninvolvement of M and D-tryptamine receptors
- 239 OHIZUMI, Y. & SHIBATA, S. Possible mechanism of the dual action of the new polypeptide (anthopleurin-B) from sea anemone in the isolated ileum and taenia caeci of the guinea-pig
- 245 CARNEY, JOHN M. & SIROCHMAN, VICKI L. Stereospecific dextrorphan tolerance in rats
- 247 GOODFRIEND, THEODORE L. & SIMPSON, ROBERT U. Angiotensin receptors in bovine umbilical artery and their inhibition by nonsteroidal anti-inflammatory drugs
- 257 ARENDT, J., HO, A.K., LAUD, C., MARSTON, A., NOHRIA, V., SMITH, J.A. & SYMONS, A.M. Differential effect of benserazide (Ro4-4602) on the concentration of indoleamines in rat pineal and hypothalamus
- 263 TODA, NOBORU Cardiotoxic and inotropic effects of ouabain on atria isolated from rabbits of different ages
- 271 CARLSÖÖ, BENGT, DANIELSSON, ÅKE, HENRIKSSON, ROGER & IDAHL, LARS-ÅKE Characterization of the rat parotid β -adrenoceptor

- 277 BARLOW, R.B., DAWBARN, D. & PYCOCK, C.J. A comparison of stereospecificity at central and peripheral 'muscarine-sensitive' acetylcholine receptors: observations with the enantiomeric forms of procyclidine and tricyclamol
- 281 TODA, NOBORU Non-adrenergic, non-cholinergic innervation in monkey and human cerebral arteries
- 285 DEVANE, JOHN & RYAN, MICHAEL P. The effects of amiloride and triamterene on urinary magnesium excretion in conscious saline-loaded rats
- 291 BOUGHTON-SMITH, N.K. & WHITTLE, B.J.R. The gastric antisecretory actions of prostaglandin E₂ and stable prostacyclin analogues against different secretagogues in perfused wholestomachs of rat or mouse in vitro
- 299 VIINIKKA, LASSE & YLIKORKALA, OLAVI Effect of various doses of acetylsalicylic acid in combination with dipyridamole on the balance between prostacyclin and thromboxane in human serum
- 305 NISHIMURA, S., SORIMACHI, M. & YAMA-GAMI, K. Exocytotic secretion of catecholamines from the cat adrenal medulla by sodium deprivation: involvement of calcium influx mechanism
- 319 BOLTON, T.B. & CLARK, J.P. Actions of various muscarinic agonists on membrane potential, potassium efflux, and contraction of longitudinal muscle of guinea-pig intestine
- 335 HARRIS, J.B., SUTHERLAND, S. & ZAR, M.A. Actions of the crude venom of the Sydney funnelweb spider, Atrax robustus on autonomic neuromuscular transmission
- 341 PEARCE, F.L. & WHITE, J.R. Effect of lanthanide ions on histamine secretion from rat peritoneal mast cells
- 349 PLETSCHER, ALFRED Liberation of catecholamines from blood platelets
- 355 DESARMENIEN, MICHEL, FELTZ, PAUL, HEADLEY, P. MAX & SANTANGELO, FRAN-CESCA SL 75 102 as a γ-aminobutyric acid agonist: experiments on dorsal root ganglion neurones in vitro

365 BOWMAN, ANNE, GILLESPIE, J.S. & MAR-TIN, W. Actions on the cardiovascular system of an inhibitory material extracted from the bovine retractor penis 373 DAVIES, JOHN Selective depression of synaptic excitation in cat spinal neurones by baclofen: an iontophoretic study

VOLUME 72 NUMBER 3 MARCH 1981

SHORT COMMUNICATION

389 FEUERSTEIN, NILI, FOEGH, MARIE & RAM-WELL, PETER, W. Leukotrienes C₄ and D₄ induce prostaglandin and thromboxane release from rat peritoneal macrophages

- 393 PATON, W.D.M. & WING D.R. Effects of halothane on the incorporation of [14C]-serine into phospholipid in the guinea-pig ileum
- 401 FAIRBAIRN, J.W. & PICKENS, JOAN T. Activity of cannabis in relation to its Δ'-trans-tetrahydrocannabinol content
- 411 MONTASTRUC, JEAN-LOUIS & MONTASTRUC, PAUL Effect of intracisternal 5,7-dihydroxytryptamine on the acute antihypertensive action of propranolol in the sino-aortic denervated anaesthetized dog
- 419 HAMILTON, T.C. Involvement of the adrenal glands in the hypotensive response to bromocriptine in spontaneously hypertensive rats
- 427 de BELLEROCHE, J.S. & BRADFORD H.F. Evidence for an inhibitory presynaptic component of neuroleptic drug action
- 435 BLAIR, I.A. & MACDERMOT, J. The binding of [3H]-prostacyclin to membranes of a neuronal somatic hybrid
- 443 CUSACK, N.J. & HOURANI, S.M.O. 5'-N-ethylcar-boxamidoadenosine: a potent inhibitor of human platelet aggregation
- 449 COSTA, J.L., KIRK, K.L., MURPHY, D.L. & STARK H. Anomalous compartmentation of 5-hydroxytryptamine in intact human platelets
- 461 GUNDERSEN, CAMERON B. & JENDEN, DONALD J. Studies of the effects of agents which alter calcium metabolism on acetylcholine turnover in the rat diaphragm preparation
- 471 BHARGAVA, K.P., DIXIT, K.S. & GUPTA, Y.K. Enkephalin receptors in the emetic chemoreceptor trigger zone of the dog
- 477 COX, B., LEE, T.F. & MARTIN, D. Different hypothalamic receptors mediate 5-hydroxytryptamine- and tryptamine-induced core temperature changes in the rat

- 483 BRAY, M.A., CUNNINGHAM, F.M., FORD-HUT-CHINSON, A.W. & SMITH, M.J.H. Leukotriene B₄: a mediator of vascular permeability
- 487P PROCEEDINGS OF THE BRITISH PHARMACO-LOGICAL SOCIETY, University of Aberdeen, 10th-12th September, 1980
- 487P LEYSEN, J.E. & NIEMEGEERS C.J.E. Receptor occupation and *in vivo* pharmacological effects in rats
- 488P MOSER, P.C. & WYLLIE M.G. Assessment of neurotransmitter uptake in vivo
- 489P COLPAERT F.C. & MAROLI A.N. Detection of electrical stimulation in the medial forebrain bundle at the level of the lateral hypothalamus: effects of haloperidol and cocaine on the intensity gradient
- 490P BALFOUR, D.J.K. & BENWELL M.E.M. The effects of chronic nicotine administration and withdrawal on 5-hydroxytryptamine synthesis and uptake by rat brain synaptosomes
- 491P COX, B., ENNIS, C. & KEMP, J.D. Inhibitory 5-hydroxytryptamine receptors located on dopamine nerve terminals in the rat striatum
- 492P JENNER, P., LEIGH, P.N., MARSDEN, C.D. & REAVILL, C. Involvement of the periaqueductal grey in dopamine-mediated circling behaviour
- 493P DAWBARN, D., HARMAR, A.J. & PYCOCK, C.J. Behavioural and biochemical studies following injection of capsaicin into the substantia nigra of the rat
- 494P LEWANDOWSKA, E.A.M. (Introduced by BRAD-LEY, P.B.) A method for screening the effects of drugs on manual co-ordination in the marmoset
- 495P TURNBULL, M.J., WATKINS, J.W. & WHEELER, H. Demonstration of withdrawal hyperexcitability following administration of benzodiazepines to rats and mice
- 495P CHIU, A., ECCLESTON, D. & PALOMO T. (Introduced by ASHTON, H.) Dopaminergic supersensitivity and cyclic GMP in rat striatum
- 497P DUBOCOVICH, MARGARITA L., GALZIN, ANNE-MARIE & LANGER, S.Z. Presynaptic dopamine like inhibitory receptors on the noradrener-gic nerve endings of the rabbit hypothalamus
- 498P DRESSE, A. & SCUVÉE-MOREAU, J. Effect of various adrenoceptor agonists and antagonists on the spontaneous firing rate of rat locus coeruleus cells

499P ARBILLA, SONIA, KAMAL, LINDA A. & LANGER S.Z. Amphetamine inhibits the electrical stimulation-

D.H.R.,

evoked release of [3H]-dopamine from the rabbit caudate nucleus microsomes

M.J.

&

PALOMO, T. (Introduced by McQUEEN, J.K.) Changes in cGMP in amygdaloid kindling in rats the cat

MARTIN.

501P HOWE, S.J., SALT, T.E., TULLOCH, I. & WALTER, D.S. (Introduced by METCALF, G.) Effect of anti-

500P BLACKWOOD.

- grand mal drugs on kindled epilepsy in the rat
- 502P HALSEY, M.J. & WARDLEY-SMITH, BRIDGET (Introduced by JOSEPH, M.H.) The high pressure neurological syndrome: do anti-convulsants prevent it?
- 503P JENNER, P., LEIGH, P.N., MARSDEN, C.D. & REAVILL, C. Cortical involvement in forepaw myoclonus induced by intrastriatal administration of picro-
- toxin to rats 504P GROWCOTT, J.W., MORLEY, J.S., PETTER, M.N., PINNOCK, R.D., TURNBULL, M.J. & WOOD-RUFF, G.N. Differences between central and peri-
- pheral actions of substance P and substance P-(1-9)nonapeptide 505P NILAM, F. & SMITH, I.R. (Introduced by BRIMBLE-COMBE, R. W.) N'-Methylhistamine was not detected
- BIRCH, N.J., FOSTER, G. & KAJDA, P.K. Effects of lithium and calcium on manganese activated pyruvate kinase

in brain by a sensitive, specific radioenzymatic assay

- 507P ARMSTRONG-JAMES, M., FOX, K., KRUK, Z.L. & MILLAR, J. 'Dident' carbon fibre microelectrodes for electrophysiological and electrochemical studies
- 507P HORN, N., MARCOU, MARGARET, MUNDAY, K.A. & WOODRUFF, G.N. Effects of dopamine receptor agonists in the guinea-pig renal vasculature and their antagonism by sulpiride

508P LITTLE, R.A., REDFERN, W.S. & STONER, H.B.

- (Introduced by CARPENTER, J.) Effects of centrallyadministered 6-hydroxydopamine on hypertension during muscle ischaemia in the unanaesthetized rat 509P BOLD, J.M., DEAN, H.G., INGHAM, S. &
- SPRAGGS, C. Spironolactone and the effect of propranolol in DOCA/salt treated rats
- 510P DE MEY, J. & VANHOUTTE, P.M. Removal of endothelium and arterial reactivity to acetylcholine and adenine nucleotides
- 510P DUONG, A.T., GODFRAIND, T. & WIBO, M. Subcellular localization of two forms of amine oxidase in

rat aorta

- 511P MONCADA, S., MULLANE, K.M. & VANE, J.R. The release of vasodilators by renin may contribute to the anti-hypertensive activity of captopril
- 512P KANE, KATHLEEN A., McDONALD, FIONA M. & PARRATT, J.R. What pharmacological properties are necessary for the prevention of early post-infarction ventricular dysrhythmias?

- 513P DE POVER, A., GODFRAIND, T. & TONA LUTETE, N. Interaction of potassium with the two ouabain specific binding sites in guinea-pig heart
- 514P ADIGUN, S.A., CLOUGH, D., CONWAY, J. & HAT-TON, R. Interactions of angiotensin and sympathetic reflexes during lower body negative pressure (LBNP) in
- 515P EVANS, M.H. & WILLIAMSON, NICOLA M. Attenuation of the rabbit hypothalamo-cardioinhibitory response by a-adrenoceptor blocking drugs

& JORIZZO, J. Mechanism of vasodilatation due to

adenosine triphosphate and its metabolites in humans 517P GODFRAIND, T. & MOREL, NICOLE Identification of the specific binding of flunarizine to rat aorta

516P BURNSTOCK, G., COUTTS, A.A., GREAVES, M.W.

- 517P FORSTER, CHRISTINE & WHALLEY, E.T. Comparison of various tryptamine analogues on the human basilar artery and rat aorta in vitro 519P FLAVAHAN, N.A. & McGRATH, J. C. An analysis of
- adrenaline 520P BORKOWSKI, K.R. & CLOUGH, D.P. Adrenalineinduced cardiovascular depressor effects in conscious dogs

 α_1 - and α_2 -adrenoceptor mediated pressor effects of

- BACQ, Z.M., DEBY, C., DEBY-DUPONT, G. & 521P LAVERGNE, L. Sensitivity to arachidonic acid and the metabolism of purines in the rabbit 522P BITTENSKY, LUCILLE, CASHMAN, B., CHAYEN, J., HENDERSON, B., HIGGS, G.A., SALMON, J.A.
- & VANE, J.R. Synthesis of arachidonate cyclo-oxygenase products by rheumatoid and non-rheumatoid synovial tissue 523P BILLINGHAM, M.E.J. ICI 55897 (CLOZIC), a novel
- anti-arthritic agent 524P COLEMAN, R.A., COLLINGTON, E.W., GEISOW,
 - H.P., HORNBY, E.J., HUMPHREY, P.P.A., KENNEDY, I., LEVY, G.P., LUMLEY, P., McCABE, P.J. & WALLIS, C.J. AH 19437, a specific thromboxane receptor blocking drug? 525P TEMPLETON, WILMA W. (Introduced by WOOD-RUFF, G.N.) Noradrenaline increases prostaglandin

 E_2 and F_{2x} synthesis in rat cerebral cortex via a β

- adrenoceptor McGRATH, J.C. Effects of yohimbine analogues on neuronal and smooth muscle α -adrenoceptors in rat vas deferens
- 527P MACDONALD, A. & McGRATH, J.C. Effects of nerve stimulation and agonist drugs on the vas deferens of immature rats
 - GILLESPIE, J.S., HUNTER, J.C. & McKNIGHT, A.T. The effect of ethanol on motor and inhibitory responses of the anococcygeus and bovine retractor penis muscles

- 529P HENDERSON, G. & SIM, J.A. The effect of extracellular sodium ion concentration on the action of opiates to inhibit [3H]-noradrenaline release from the mouse vas deferens
- 530P BOYLE, F.C. & DIGGES, K.G. Adrenoceptors in pregnant rat uterus
- 530P CLARK, L.A., SMALL, R.C. & TURNBULL, M.J. Nicotine-induced relaxation of guinea-pig trachealis
- 531P FOSTER, R.W. & JONES, D.W. An in vitro comparison of haloalkylamine activity upon rat anococcygeus and guinea-pig trachealis
- 532P CARPENTER, J.R. Intrinsic activity of labetalol on guinea-pig trachealis muscle in vitro
- 533P ANDERSON, A.A., ASHFIELD, D.J. & GOADBY, P. A comparison in vitro of guinea-pig central and peripheral airways smooth muscle
- 534P POAT, JUDITH A. & TEMPLETON, D. Parasympathectomy increases β-adrenoceptor density in the rat parotid gland
- 535P ISMAIL, S., JAHN, U. & WEETMAN, D.F. Sgd 101/75 (4(2-imidazoline-amino)-2-methyl-indazol-chlorhydrate): a drug that can act as an agonist, partial agonist or antagonist on alpha-adrenoceptors of isolated tissues
- 536P CHADWICK, M. ANN, FRANCIS, HILARY P. & GOADBY P. The effects of anaphylaxis on stomach motility in the guinea-pig.
- 537P LEFEBVRE, R.A. & WILLEMS, J.L. Dopamine inhibition of the transmurally-stimulated gastric fundus of the rat
- 538P BACK, D.J., BRECKENRIDGE, A.M., CHAPMAN, ROSEMARY C., CRAWFORD, FRANCESCA E., ORME M.L'E. & ROWE, P.H. Metabolism of norethisterone oenanthate in vitro
- 539P HAWKSWORTH, G.M. & MORRISON, M.H. The effect of streptozotocin-induced diabetes on glucuronyl transferase activity in the rat
- 540P BENNETT, P.N., NOTARIANNI, LIDIA J. & SUPRADIST, SUMARN Effects of sotalol on lignocaine pharmacokinetics in rat
- 541P BACK, D.J., BRECKENRIDGE, A.M., CHAPMAN, C. ROSEMARY, CRAWFORD, FRANCESCA E., ORME, M.L'E. & ROWE, P.H. Intestinal absorption of oestrone sulphate in the rat
- 542P BROWN, JANETTE M. & POLLOCK, D. The effect of reserpine on plasma corticosterone levels and on the incorporation of [³H]-thymidine into regenerating liver in partially hepatectomized rats
- 543P MILTON, A.S. & TODD, DOROTHY A. The effect of cycloheximide on endogenous pyrogen fever
- 544P McQUEEN, D.S. & RIBEIRO, J.A. Comparison of the depressant effects of leucine- and methionine-enkephalin on spontaneous chemoreceptor activity in cats

- 545P CLARK, AMANDA L. & HOBBIGER, F. Effects of acetylcholine antagonists on anticholinesterase-induced twitch potentiation in the rat isolated diaphragm preparation
- 546P LEMEIGNAN, M., MOLGO, L. & TAZIEFF-DEPIERRE, F. Effects of sea *Anemonia sulcata* toxin II on normal and chronically denervated mammalian neuromuscular junctions
- 547P BRISTOW, D.R., HARE, J.R., HEARN, J.R. & MAR-TIN, L.E. (Introduced by BRITTAIN, R.T.) Radioligand binding studies using [³H]-cimetidine and [³H]-ranitidine
- 548P NORRIS, D.B., RISING, T.J., WARRANDER, S.E. & WOOD, T.P. (Introduced by ROBINSON, J.D.)

 [3H]-Cimetidine binding in guinea-pig gastric mucosa
- 549P EDGAR, ELAINE G., GILBERT, J.C. & WINSEY, N.J.P. Disodium cromoglycate and mast cell calcium-ATPase
- 550P MAJID, ELLISHA & SENIOR, JUDITH Modification of the uterotrophic responses to oestradiol by mepyramine and inhibitors of prostaglandin synthesis
- 551P BILLINGHAM, M.E.J., CLAGUE, R.B., MORGAN, K. & SMITH, M.N. Effect of ICI 55897 (CLOZIC*) and indomethacin on type II collagen-induced arthritis in the rat
- 552P McDOUGALL, P., MARKHAM, A. & SWEETMAN, A.J. The effect of the nonsteroidal anti-inflammatory agent, diflunisal, on energy metabolism in mitochondria isolated from rat liver
- 553P SKETT, PAUL The effect of pituitary hormones on hepatic drug metabolism
- 553P HICKS, R. & SAHYOUN, H.A. Immunosuppressive effects of vinyl chloride monomer on delayed hypersensitivity in the guinea-pig
- 554P CLARK, L.A., SMALL, R.C. & TURNBULL, M.J. Do the recurrent laryngeal nerves provide an extrinsic input to non-adrenergic inhibitory neurones in guineapig trachealis muscle?
- 555P ALI, B.H. & BARTLET, A.L. Some actions of furazolidone in poultry
- 556P MARTIN, A.R. & MITCHELL, MARY R. (Introduced by GINSBORG, B.L.) An electrophysiological study of the effects of ionophore A23187 in an insect salivary gland
- 557P BRYAN, A.J., KAUR, RABINDER, ROBINSON, G., THOMAS, N.W. & WILSON, C.G. Changes in the rat intestine exposed to polyethylene glycol 2000 and polyoxyethylene (40) stearate
- 558P COSTALL, B., NAYLOR, R.J. & SAHYOUN, H.A. Catecholamines have a dual action on stomach strips: the relaxation component is selectively inhibited by domperidone

- 559P BATES, R.F.L., BUCKLEY, G.A. & STRETTLE, R.J. Evidence for a novel mechanism of action of salmon calcitonin on indomethacin-induced gastric erosions
- 510P CURWAIN, B.P. & TURNER, N.C. Gastric acid secretion in the rabbit isolated mucosa
- 561P BUNCE, K.T., PARSONS, M.E., PRICE, C.A. & SYKES, C.C. Histidine decarboxylase activity in the isolated gastric mucosa of the rat
- 562P BAIRD, A.W. & MAIN, I.H.M. Effects of sodium replacement and ouabain on rat gastric mucosal potential difference
- 563P HAY, D.W.P. & WADSWORTH, R.M. A comparison of the effects of some calcium antagonists on druginduced rhythmic contractions of the rat vas deferens 564P GIBSON, A., GINSBURG, M. & PATEL, S. The effect
- of Mg2+-free Krebs solution on agonist responses in the bisected vas deferens of the rat 565P DASCOMBE, M.J. & PARKES, J. Effects of No-2'-Odibutyryl adenosine 3',5'-monophosphate on body temperature in the restrained rat
- 566P NYEMITEI-ADDO, I. & PERTWEE, R.G. Effects of intrahypothalamic injections of adenosine 3',5'-monophosphate and dopamine on thermoregulation in restrained mice
- MAN, N.H. & SINGH, P. Dopamine-β-hydroxylase activity in cerebrospinal fluid and serum of rabbits after electroconvulsive shock 568P COSTALL, B., NAYLOR, R.J. & NEUMEYER, J.L. A dissociation of dopamine agonist and antagonist bind-

567P DE SCHAEPDRYVER, A.F., DE SMET, F., FRAEY-

- ing sites in the rat striatum 569P CLOW, A., GOMMEREN, W., JENNER, P., LEY-SEN, J., MARSDEN, C.D. & THEODOROU, A. Continuous administration of trifluoperazine to rats for six
- months only alters cerebral dopamine receptor characteristics 570P JENNER, P., MARSDEN, C.D. & TAYLOR, R.J. Behavioural changes induced by the unilateral intrastria-
- Method for determining the CNS penetration of enkephalin analogues in the rat 572P BALFOUR, D.J.K. & PLUMMER, S.M. The effects of zimelidine on changes in brain 5-hydroxyindoles and
- morphine
- 573P TURNBULL, M.J. & WATKINS, J.W. Rebound decrease in CNS excitability following a single dose of amphetamine 573P ADRIAN, R.W., ISMAIL, S. & JAHN, U. (Introduced

of binodaline, a novel antidepressant drug

tal administration of glutamate analogues in the rat 571P HILL, R.C., MARBACH, P. & SCHERRER, D. plasma corticosterone following chronic treatment with 575P BATES, R.F.L., BUCKLEY, G.A., EGLEN, R.M. & STRETTLE, R.J. Comparison of the analgesic effects of subcutaneous and intracerebroventricular injection of calcitonin on acetic acid-induced abdominal constriç-

tions in the mouse

- 576P BIRCH, N.J., KAJDA, P.K. & WAREING, ROSEM-ARY Lithium and glucose utilization in human erythrocytes
- 577P PETTY, M.A. & REID, J.L. The cardiovascular effects
- of intracisternal Substance P in the normotensive rab-578P GODFRAIND T. & GODFRAIND-DE BECKER,
- ANNE Creatinol O-phosphate is a potential intracellular buffer 578P DONCKIER, J. & GODFRAIND T. Reduction by creatinol O-phosphate of heart CPK loss after coronary artery ligation in rats
- 579P HIGGINSON, IRENE J., MARSDEN, C.A., STAN-DEN, PENNY J. & WHITTALL, M.G. Exploratory, social and (+)-amphetamine induced behaviour in
- spontaneously hypertensive rats 580P FINCH, L., HERSOM, A.S. & LEACH, G.D.H. Comparative studies on the cardiovascular and behavioural actions of guanabenz and clonidine 581P FORSTER, CHRISTINE & WHALLEY, E.T. Spiper-
- one contracts the human basilar arterial strip in vitro: possible interaction with 5-hydroxytryptamine receptors? 582P KAZDA, S. & TOWART, R. Differences in the effects
- of the calcium antagonists nimodipine (BAY e 9736) and bencyclan on cerebral and peripheral vascular smooth muscle 583P DIEU, D. & GODFRAIND T. A comparison of flu-
- narizine and cinnarizine 584P BUCKETT, W.R. Tolerance to the inhibition by morphine of bradycardia induced by vagal stimulation in the rat

585P FLAVAHAN, N.A. & McGRATH, J.C. Demon-

- stration of simultaneous α_1 -, α_2 , β_1 and β_2 -adrenoceptor mediated effects of phenylephrine in the cardiovascular system of the pithed rat 586P HICKS, P.E. Differential α-adrenoceptor antagonism by BE 2254 (HEAT) and prazosin at pre- and post-
- synaptic receptors in the pithed rat 587P BILSKI, ALISON J., COLLIS, M.G. & PETTINGER, S.J. Heterogeneity of post-junctional purinergic receptors in cardiac and vascular tissue from guinea-pigs
- 588P GORDON, D. & NOURI, A.M.E. (Introduced by LEWIS, G.P.) Anti-proliferative effects of cyclosporin-A and glucocorticosteroids on mitogen-stimulated human
- blood mononuclear cells 590P DONEGAN, D., FISHER, J.M. & WILLIS, A.L. Preby WEETMAN, D.F.) The pharmacological spectrum dictivity and objectivity in anti-thrombotic testing procedures

SHORT COMMUNICATION

593 COKER, SUSAN J., LEDINGHAM, I. McA., PARRATT, J.R. & ZEITLIN, I.J. Aspirin inhibits the early myocardial release of thromboxane B₂ and ventricular ectopic activity following acute coronary artery occlusion in dogs

- PERBAL, BERNARD Inactivation of Herpes simplex virus by a pregnene derivative (TX 3047)
- 603 YOFFE, JOAN R. Effects of inflammatory agents on endothelial lysosomal fragility and their inhibition by anti-inflammatory drugs
- 609 JAMES-KRACKE, MARILYN R. & ROUFO-GALIS, BASIL D. Alteration of smooth muscle contractility after muscarinic agonist-induced K⁺ loss
- 621 BURTON, M.J., COOPER, S.J. & POPPLE-WELL, D.A. The effect of fenfluramine on the microstructure of feeding and drinking in the rat
- 635 BROADLEY, KENNETH, J. & NICHOLSON, DAVID C. Dissociation constants of isoprenaline and orciprenaline and their relative efficacies on guinea-pig isolated atria determined by use of an irreversible β-adrenoceptor antagonist
- 645 PETTY, MARGARET A. & REID, J.L. Captopril and the maintenance of blood pressure after sinoaortic denervation in the rabbit
- 649 PICKENS, JOAN T. Sedative activity of cannabis in relation it its Δ'-trans-tetrahydrocannabinol and cannabidiol content
- 657 BARLOW, R.B. & WINTER, ELIZABETH A. Affinities of the protonated and non-protonated forms of hyoscine and hyoscine N-oxide for muscarinic receptors of the guinea-pig ileum and a comparison of their size in solution with that of atropine

- 665 LESLIE, G.C. & PART, N.J. The action of dantrolene sodium on rat fast and slow muscle in vivo
- 673 KARASHIMA, TSUYOSHI Effects of vasopressin on smooth muscle cells of guinea-pig mesenteric vessels
- 685 THOMPSON, D.G. & WINGATE, D.L. Oral hyoscine butylbromide does not alter the pattern of small intestinal motor activity
- 689 HITCHCOCK, MARGARET & KOKOLIS, NICHOLAS A. Arachidonic acid metabolism and modulation of in vitro anaphylaxis by 5, 8, 11, 14-eicosatetraynoic acid and 9a, 12a-octadecadiynoic acid
- 697 GRIFFETT. ELIZABETH M., KINNON. SUSAN М., KUMAR. Α., LECKER. DOROTHY. SMITH. GILLIAN M. TOMICH, E.G. Effects of 6-[p-4-phenylacetylpiperazin-1-yl) phenyl]-4,5-dihydro-3(2H)pyridazinone (CCI 17810) and aspirin on platelet aggregation and adhesiveness
- 707 BHARGAVA, HEMENDRA N. The effect of melanotrophin release inhibiting factor (MIF) and cyclo (Leu-Gly) on the tolerance to morphineinduced antinociception in the rat: a doseresponse study
- 715 BAKHLE, Y.S. Inhibition by clinically used dyes of prostaglandin inactivation in rat and human lung
- 723 HUDLICKA, O., KOMAREK, J. & WRIGHT, A.J.A. The effect of a xanthine derivative, 1-(5'oxohexyl)-3-methyl-7-propylxanthine (HWA 285), on heart performance and regional blood flow in dogs and rabbits
- 731 BEN-HARARI, R.R. & YOUDIM, M.B.H. Ontogenesis of uptake and deamination of 5-hydroxytryptamine, dopamine and β-phenylethylamine in isolated perfused lung and lung homogenates from rats