INDEX TO VOLUME 76

AUTHOR INDEX

A

- AKAIKE, N., ITO, H., NISHI, K. & OYAMA Y. Further analysis of inhibitory effect of propranolol and local anaesthetics on the calcium current in *Helix* neurones. 37
- ANDERSSON, P. & BRATTSAND, R. Protective effects of the glucocorticoid, budesonide, on lung anaphylaxis in actively sensitized guinea-pigs: inhibition of IgE- but not of IgG- mediated anaphylaxis, 139
- ANDJELKOVIC, IVAN & ZLOKOVIC, BERISLAV. Protective effect of glucagon during the anaphylactic response in guinea-pig isolated heart, 483
- ANGEL, A. & GRATTON, DENISE A. The effect of anaesthetic agents on cerebral cortical responses in the rat, 541
- ATTERWILL, C.K. & TORDOFF, ANN F.C. Effects of repeated lithium administration on the subcellular distribution of 5-hydroxytryptamine in rat brain, 413

B

- BADAWY, A.A.-B. Mechanisms of elevation of rat brain tryptophan concentration by various doses of salicylate, 211
- BALL, N., DANKS, J.L., DORUDI, S. & NASMYTH, P.A. Desensitization by noradrenaline of responses to stimulation of pre- and postsynaptic adrenoceptors, 201
- BARRIGON, SANTOS, DE MIGUEL, BEATRIZ, TAMATGO, JUAN & TEJERINA, TERESA. The mechanism of the positive inotropic action of ketamine on isolated atria of the rat, 85
- BARTOLI, ETTORE, BRANCA, GIAN FRANCI, FAEDDA, ROSSANA, OLMEO, NINA A., SATTA, ANDREA & SOGGIA GIOVANNI Experimental dissociation of the effects of prostaglandins on renal sodium and water reabsorbtion by cyclo-oxygenase inhibitors in the rat, 357
- BAUER, V. Distribution of adrenoceptors in the guineapig ileum: the action of α and β -adrenoceptor blocking agents, 569
- BAUER, V. & KURIYAMA, H. Homogeneous and non-homogeneous distribution of inhibitory and excitatory adrenoceptors in the longitudinal muscle of the guinea-pig ileum, 603
- BEANI, L., BIANCHI, C. & SINISCALCHI, A. The effect of naloxone on opioid-induced inhibition and facilitation of acetylcholine release in brain slices, 393
- BELL, C. Benztropine-induced prolongation of responses to vasodilator nerve stimulation in the canine paw pad, 231
- BELLEAU, B., BENFEY, B.G., MELCHIORRE, C. & MONTAMBAULT, M. Inhibition of adrenaline-

- induced platelet aggregation by the α -adrenoceptor blocking drug benextramine, 253
- BEN-HARARI, RUBEN R., PELEG, R. & YOUDIM, M.B.H. Rate-limiting step in the metabolism of polar and non-polar monamines in lung and liver, 77
- BENNETT, T., GARDINER, S.M. & KEMP, P.A. An assessment of the effectiveness of neonatal treatment with guanethidine as a means of producing sympathectomy, 557
- BENNETT, T., LOT, T.Y. & STRANGE, P.G. The effects of noradrenergic denervation on muscarinic receptors of smooth muscle, 177
- BEUERS, U., HERTTING, G. & KNEPEL, W. Release of β -lipotropin- and β -endorphin-like material induced by angiotensin in the conscious rat, 579
- BIANCHI, C. see BEANI, L., 393
- BICHARD, A.R. & LITTLE, H.J. Drugs that increase γ-aminobutyric acid transmission protect against the high pressure neurological syndrome, 447
- BLACKWELL, G.J., CARNUCCIO, ROSA, DI ROSA, M., FLOWER, R.J., LANGHAM C.S.J., PARENTE, L., PERSICO, PAOLA, RUSSELL-SMITH, N.C. & STONE, D. Glucocorticoids induce the formation and release of anti-inflammatory and anti-phospholipase proteins into the peritoneal cavity of the rat, 185
- BOWDLER, JULIE & GREEN A. RICHARD. Regional rat brain benzodiazepine receptor number and γ-aminobutyric acid concentration following a convulsion, 291
- BRADSHAW, DAVID, FRANZ, PETER H. & SUG-DEN, A. LOUISE. Relation of plasma renin activity to the antihypertensive effect of MK 421 in the rat, 163
- BRANCA, GIAN see BARTOLI, ETTORE, 357
- BRATTSAND, R. see Andersson, P., 139
 BROUGHTON, N.S. & MORRIS, J.F. The effect of cimetidine on basal gastric acid secretion in the rat, 551
- BROWN, C.M. & COLLIS, M.G. Evidence for an A₂/R_a adenosine receptor in the guinea-pig trachea, 381
- BULT, HIDDE, HERMAN, ARNOLD G. & VAN DE VELDE, VERA J.S. Effect of dipyridamole on the formation of 6-oxo-prostaglandin $F_{1\alpha}$ by rat isolated aorta and ram seminal vesicle microsomes, 453
- BUUR, T., CLAUSEN, T., HOLMBERG, E., JOHANSSON, U. & WALDECK, B. Desensitization by terbutaline of β-adrenoceptors in the guinea-pig soleus muscle: biochemical alterations associated with functional changes, 313

C

CAMPBELL, T.J. & VAUGHAN WILLIAMS, E.M. Electrophysiological and other effects on rabbit hearts

- CASAMENTI, FIORELLA, CORRADETTI, R., LÖF-FELHOLZ, K., MANTOVANI, P. & PEPEU, G. Effects of 4-aminopyridine on acetylcholine output from the cerebral cortex of the rat in vivo, 439
- CLARK, S.L. & RYALL, R.W. Inhibition by substance P of some peripheral actions of acetylcholine in the cat, 595
- CLAUSEN, T. see BUUR, T., 313
- COKER, SUSAN J., FAGBEMI, O. & PARRATT, J.R. Lidoflazine in the early stages of acute myocardial ischaemia, 347
- COLLINGRIDGE, GRAHAM L. & DAVIES, JOHN. Reversible effects of tetanus toxin on striatal evoked responses and [3H]-γ-aminobutyric acid release in the rat substantia nigra, 403
- COLLIS, M.G. see BROWN, C.M., 381
- CORRADETTI, R. see CASAMENTI, FIORELLA, 439 COUPAR, IAN M. & TAYLOR, DAVID A. Alteration in the level of endogenous hypothalamic prostaglandins induced by Δ^9 -tetrahydrocannabinol in the rat, 115
- COWEN, P.J., GRAHAME-SMITH, D.G., GREEN, A.R. & HEAL, D.J. β-Adrenoceptor agonists enhance 5-hydroxytryptamine-mediated behavioural responses, 265
- CUSACK, N.J. & HOURANI, S.M.O. Adenosine 5'-diphosphate antagonists and human platelets: no evidence that aggregation and inhibition of stimulated adenylate cyclase are mediated by different receptors, 221
- CUTHBERT, A.W. & SPAYNE, J.A. Stimulation of sodium and of chloride transport in epithelia by forskolin, 33

D

- DAHLBOM, R., JENDEN, D.J., RESUL, B. & RING-DAHL, B. Stereochemical requirements for central and peripheral muscarinic and antimuscarinic activity of some acetylenic compounds related to oxotremorine, 299
- DALY, M.J., HUMPHRAY, JANET M. & STABLES, R. Effect of H₂-receptor antagonists and anticholinoceptor drugs on gastric and salivary secretion induced by bethanechol in the anaesthetized dog, 361
- DANKS, J.L. See BALL, N., 201
- DAVIES, JOHN. Selective depression of synaptic transmission of spinal neurones in the cat by a new centrally acting muscle relaxant, 5-chloro-4-(2-imidazolin-2-ylamino)-2,1,3-benzothiodazole (DS103-282), 473
- DAVIES, JOHN see COLLINGRIDGE, GRAHAM L., 403
- DE MIGUEL, BEATRIZ see BARRIGON, SANTOS, 85
- DI ROSA, M. see BLACKWELL, G.J., 185
- DOCHERTY, JAMES R. & STARKE, KLAUS. An examination of the pre- and postsynaptic α-adrenoceptors involved in neuroeffector transmission in rabbit aorta and portal vein, 327
- DORUDI, P.A. see BALL, N., 201

E

- ELLIOTT, J.M. & GRAHAME-SMITH, D.G. The binding characteristics of [³H]-dihydroergocryptine on intact human platelets, 121
- ENE, M.D., KHAN-DANESHMEND & ROBERTS, C.J.C. A study of the inhibitory effect of SCH 28080 on gastric secretion in man, 389
- ESPLUGUES, JUAN, LLORIS, JOSÉ M., MAR-TÍBONMATÍ, EZEQUIEL & MORCILLO, ESTE-BAN J. Effects of β-adrenoceptor drug stimulation on various models of gastric ulcer in rats, 587
- EVANS, D.F., FOSTER, G.E., HARDCASTLE, J.D., JOHNSON, F. & WRIGHT, J.W. The action of porcine glucagon on the motility of the canine duodenum and jejunum, 245

F

- FAEDDA, ROSSANA see BARTOLI, ETTORE, 357 FAGBEMI, OLU see COKER, SUSAN J., 347
- FAGBEMI, OLU, LEPRAN, ISTVAN, PARRATT, JAMES R. & SZEKERES, LASZLO. Naloxone inhibits early arrhythmias resulting from acute coronary ligation, 505
- FAGBEMI, S.O. & SALAKO, L.A. The effects of prazosin, phentolamine and phenoxybenzamine on inhibitory α-adrenoceptors in guinea-pig isolated ileum, 235
- FAN, T-P.D. & LEWIS, G.P. Blood flow, histamine content and histidine decarboxylase activity in rat skin grafts and their modification by cyclosporin-A, 491
- FLOWER, R.J. see BLACKWELL, G.J., 185
- FORD-HUTCHINSON, A.W. Aggregation of rat neutrophils by nucleotide triphosphates, 367
- FORD-HUTCHINSON, A.W., PIPER, PRISCILLA J. & SAMHOUN, MARWA N. Generation of leukotriene B₄, its all *trans* isomers and 5-hydroxyeicosatetraenoic acid by rat basophilic leukaemia cells, 215
- FOSTER, G.E. see EVANS, D.F., 245
- FRANCINI, FLAVIA, GIOTTI, ALBERTO, MANZINI, STEFANO, MARTINI, FLAVIO, STENARDI, ISABELLA & ZILLETTI, LUCILLA. The effect of taurine on high potassium- and noradrenaline-induced contraction in rabbit ear artery, 149
- FRANZ, PETER H. see BRADSHAW, DAVID, 163 FUJIMOTO, YOHKO & FUJITA, TADASHI. Effect of lipid peroxidation on p-aminohippurate transport by rat
- kidney cortical slices, 373

 FUJISAWA, KAZUAKI & ITO, YUSHI. The effects of substance P on smooth muscle cells and on neuro-effector transmission in the guinea-pig ileum, 279
- FUJITA, TADASHI see FUJIMOTO, YOHKO, 373

G

GARDINER, S.M. see BENNETT, T., 557 GIOTTI, ALBERTO see FRANCONI, FLAVIA, 149 GOLDIE, ROY G. & PATERSON, JAMES W. Catecholamine transport in isolated lung parenchyma of pig, 507 GOLDIE, ROY G., PATERSON, JAMES W. & WALE, JANET L. A comparative study of β-adrenoceptors in human and porcine lung parenchyma strip, 523

GOLDIE, ROY G., PATERSON, JAMES W. & WALE, JANET L. Pharmacological responses of human and porcine lung parenchyma, bronchus and pulmonary artery, 515

GRAHAME-SMITH, D.G. see COWEN, P.J., 265 GRAHAME-SMITH, D.G. see ELLIOTT, J.M., 121 GRATTON, DENISE A. see ANGEL, A., 541

GRAY, DAVID A., PARSONS, JOHN A., POTTS, JOHN T. Jr., ROSENBLATT, MICHAEL & STEVENSON, RALPH W. In vivo studies on an antagonist of parathytroid hormone [Nle-8, Nle-18, Tyr-34] bPTH-(3-34) amide, 259

GREEN, A.R. see BOWDLER, JULIE, 291 GREEN, A.R. see COWEN, P.J., 265

H

HARDCASTLE, J.D. see EVANS, D.F., 245
HARRIS, J.B. & MALTIN, C.A. Myotoxic activity of the crude venom and the principal neurotoxin, taipoxin of the Australian taipan, Oxyuranus scutellatus, 61

HAY, D.W.P. & WADSWORTH, R.M. Effects of some organic calcium antagonists and other procedures affecting Ca²⁺ translocation on KCl-induced contractions in the rat vas deferens, 103

HAYES, R., HOWARD, J.C. & NASMYTH, P.A. The influence of drugs on the overflow of noradrenaline and the identification of receptors in guinea-pig atria. 195

HAYLOR, J. & TOWERS, J. Renal vasodilator activity of prostaglandin E₂ in the rat anaesthetized with pentobarbitone, 131

HEAL, D.J. see COWEN, P.J., 265

HELLEWELL, P.G. & PEARSON, J.D. Effect of sulphasalazine on pulmonary inactivation of prostaglandin $F_{2\alpha}$ in the pig, 319

HERMAN, ARNOLD G. see BULT, HIDDE, 453 HERTTING, G. see BEUERS, U., 579

HILLIER, KEITH, MASON, P.J. & SMITH, C.L. Ulcerative colitis: effect of sulphasalazine, its metabolites and indomethacin on the ability of human colonic mu-

cosa to metabolize prostaglandins in vitro, 157 HOLMBERG, E. see BUUR, T., 313

HOLMES, S.W. & SUGDEN, D. Effects of melatonin on sleep and neurochemistry in the rat, 95

HOURANI, S.M.O see CUSACK, N.J., 221 HOWARD, J.C. see HAYES, R., 195

HUMPHRAY, JANET M. see DALY, M.J., 361

I

ITO, H. see AKAIKE, N., 37
 ITO, USHI see FUJISAWA, KAZUAKI, 297
 IZUMI, HIDETAKA & KISHIKAWA, TADAO. Effects of ritodrine, a β₂-adrenoceptor agonist, on smooth muscle cells of the myometrium of pregnant rats, 463

J

JENDEN, D.J. see DAHLBOM, R., 299 JOHANSSON, U. see BUUR, T., 313 JOHNSON, F. see EVANS, D.F., 245 JONES, R.L., PEESAPATI, V. & WILSON, N.H. Antagonism of the thromboxane-sensitive contractile systems of the rabbit aorta, dog saphenous vein and guineapig trachea, 423

K

KAMIKAWA, YUICHIRO, SHIMO, YASOU & UCHIDA, KOHSUKE. Inhibitory actions of catecholamines on electrically induced contractions of the submucous plexus-longitudinal muscularis mucosae preparation of the guinea-pig oesophagus, 271

KEMP, P.A. seeBENNETT, T., 557 KHAN-DANESHMEND, T. see ENE, M.D., 389 KISHIKAWA, TADAO see IZUMI, HIDATAKA, 463 KNEPEL, W. see BEUERS, U., 579 KURIYAMA, H. see BAUER, V., 603

I

LANGHAM, C.S.J. see BLACKWELL, G.J., 185 LEPRAN, ISTVAN see FAGBEMI, OLU, 505 LETTS, L.G. & PIPER, PRISCILLA J. The actions of leukotrienes C₄ and D₄ on guinea-pig isolated hearts, 169

LEWIS, G.P. see FAN, T-P.D., 491 LITTLE, H.J. see BICHARD, A.E., 447 LLORIS, JOSE M. see ESPLUGUES, JUAN, 587 LÖFFELHOLZ, K. see CASAMENTI, FIORELLA, 439 LOT, T.Y. see BENNETT, T., 177

М

MAIN, I.H.M. & PEARCE, J.B. Increased histamineoutput from the isolated gastric mucosa of the rat in response to pentagastrin and methacholine, 51

MALTIN, C.A. see HARRIS, J.B., 61

MANTOVANI, P. see CASAMENTI, FIORELLA, 439
MANZINI, STEFANO see FRANCONI, FLAVIA, 149
MARSHALL, R.J., MUIR, A.W. & WINSLOW,
EILEEN. The effects of postligation administration of

ORG 6001 and disopyramide on early ischaemiainduced arrhythmias in the anaesthetized rat, 501

MARTI-BONMATI, EZEQUIEL see ESPLUGUES, JUAN, 587

MARTINI, FLAVIO see FRANCONI, FLAVIA, 149 MASON, P.J. see HILLIER, KEITH, 157

MILNER, J.D., NORTH, R.A. & VITEK, L.V. Interactions among the effects of normorphine, calcium and magnesium on transmitter release in the mouse vas deferens, 45

MITCHELL, H.W. Effect of ETYA and BW 755c on arachidonate-induced contractions in the guinea-pig isolated trachea, 527

MIYAZAKI, H., OHGA, A. & SAITO, K. Develop-

ment of motor response to intramural nerve stimulation and to drugs in rat small intestine, 531 MONCADA, SALVADOR. Biological importance of prostacyclin, 3 MORRIS, J.F. see BROUGHTON, N.S., 551 MUIR, A.W. see MARSHALL, R.J., 501

N

NASMYTH, P.A. see BALL, 201 NASMYTH, P.A. see HAYES, R., 195 NISHI, K. see AKAIKE, N., 37 NORTH, R.A. see MILNER, J.D., 45

0

OHGA, A. see MIYAZAKI, H., 531 OLMEO, NINA A. see BARTOLI, ETTORE, 357 OYAMA, Y. see AKAIKE, N., 37

P

PARENTE, L. see BLACKWELL, G.L. 185 PARRATT, J.R. see COKER, SUSAN J., 347 PARRATT, JAMES R. see FAGBEMI, OLU, 505 PARSONS, JOHN A. see GRAY, DAVID A., 259 PATERSON, JAMES W. see GOLDIE, ROY G., 507 PATERSON, JAMES W. see GOLDIE, ROY G., 515 PATERSON, JAMES W. see GOLDIE, ROY G., 523 PEARCE, J.B. see MAIN, I.H.M., 51 PEARSON, J.D. see HELLEWELL, P.G., 319 PEESAPATI, V. see JONES, R.L., 423 PELEG, R. see BEN-HARARI, RUBEN R., 77 PEPEU, G. see CASAMENTI, FIORELLA, 439 PERSICO, PAOLA see BLACKWELL, G.J., 185 PIPER, PRISCILLA J. see FORD-HUTCHINSON. A.W., 215 PIPER, PRISCILLA J. see LETTS, L.G., 169 POTTS, JOHN T. Jr. see GRAY, DAVID A., 259

R

RAND, M.J., STORY, D.F. & WONG-DUSTING, HELEN. Effects of impromidine, a specific H₂-receptor agonist and 2-(2-pyridyl)-ethylamine, an H₁-receptor agonist on stimulation-induced release of [³H]-noradrenaline in guinea-pig isolated atria, 305
RINGDAHL, B. see DAHLBOM, R., 299
RESUL, B. see DAHLBOM, R., 299
ROBERTS, C.J.C. see ENE, M.D., 389
ROSENBLATT, MICHAEL see GRAY, DAVID A., 259
RUSSELL-SMITH, N.C. see BLACKWELL, G.J., 185
RYALL, R.W. see CLARK, S.L., 595

S

SAITO, K. see MIYAZAKI, H., 531 SALAKO, L.A. see FAGBEMI, S.O., 235 SAMHOUN, MARWA N. see FORD-HUTCHINSON, A.W., 215 SATTA, NINA A. see BARTOLI, ETTORE, 357 SHIMO, YASOU see KAMIKAWA, YUICHIRO, 271 SINISCHALCHI, A. see BEANI, L., 393 SMITH, C.L. see HILLIER, KEITH, 157 SOGGIA, GIOVANNI see BARTOLI, ETTORE, 357 SPAYNE, J.A. see CUTHBERT, A.W., 33 STABLES, R. see DALY, M.J., 361 STARKE, KLAUS see DOCHERTY, JAMES, R., 327 STENARDI, ISABELLA see FRANCONI, FLAVIA, 149 STEVENSON, RALPH W. see GRAY, DAVID A. 259 STONE, D. see BLACKWELL, G.J., 185 STORY, D.F. see RAND, M.J., 305 STRANGE, P.G. see BENNETT, T., 177 SZEKERES, LASZLO see FAGBEMI, OLU, 505 SUGDEN, A. LOUISE see BRADSHAW, DAVID, 163 SUGDEN, D. see HOLMES, S.W., 95

T

TAMARGO, JUAN see BARRIGON, SANTOS, 85 TAYLOR, DAVID A. see COUPAR, IAN M., 115 TERERINA, TERESA see BARRIGON, SANTOS, 85 TORDOFF, ANN F.C. see ATTERWILL, C.K., 413 TOWERS, J. see HAYLOR, J., 131

U

UCHIDA, KOHSUKE see KAMIKAWA, YUICHIRO, 271

v

VAN DE VELDE, VERA J.S. see BULT, HIDDE, 453 VAUGHAN WILLIAMS, E.M. see CAMPBELL, T.J., 337 VITEK, L.V. see MILNER, J.D., 45

W

WADSWORTH, R.M. see HAY, W.P., 103 WALDECK, B. see BUUR, T, 313 WALE, JANET L. see GOLDIE, ROY G., 515 WALE, JANET L. see GOLDIE, ROY G., 523 WALLENSTEIN, MARTIN C. Role of adrenal medulla in morphine-induced hyperthermia through central action, 565 WILSON, N.H. see JONES, R.L., 423

WINSLOW, EILEEN see MARSHALL, R.J., 501 WONG-DUSTING, HELEN see RAND, M.J., 305 WRIGHT, J.W. see EVANS, D.F., 245 Y

YOUDIM, M.B.H. see BEN-HARARI, RUBEN R., 77

Z

ZILLETTI, LUCILLA see FRANCONI, FLAVIA, 149 ZLOKOVIC, BERISLAV see ANDJELEKOVIC, IVAN, 483

SUBJECT INDEX

A

- , 7-[3(4-Acetyl-3-hydroxy-2-propylphenoxy)-2-hydroxypropyl]-4 oxo-8-propyl-4H-1-benzopyran-2-car-boxylate see FPL 55712
- Acetyl-β-methylcholine, muscarinic actions on nictitiating membrane and blood pressure, effect of substance P, 505
- Acetylcholine, blockade of spontaneous release in guineapig isolated ileum by noradrenaline, effect of αadrenoceptor agonists, 235
- , development of motor responses to, in foetal and neonatal rat small intestine, 531
- , effect of 4-aminopyridine on output from rat cerebral cortex in vivo, 439
- , peripheral actions in the cat, inhibition by substance P, 595
- responses of chick smooth muscles, effect of [3-3H]quinuclidinyl benzoate, 177
- **Action potentials**, intracellular, effects of CC122277 in isolated rabbit atria, 337
- **Adenine nucleotide analogues,** inhibition of effects of adenosine 5'-diphosphate on human platelets, 221
- Adenosine, effect on isolated guinea-pig trachea, 381
- Adenosine receptor, A_2/R_a subtype, in guinea-pig trachea, 381
- **Adenosine 5'-diphosphate,** aggregation of rat neutrophils, 367
- Adenosine 5'-diphosphate receptors, mediation of effects of adenosine 5'-diphosphate in human platelets, 221
- Adenosine 3',5'-monophosphate, cyclic, effect of adrenaline and terbutaline in guinea-pig isolated soleus muscles, 313
- —, cyclic, effect of Nle-8, Nle-18, Tyr-34 bPTH-(3-34) amide on urine levels in parathyroidectomized rats, 259
- -- , cyclic, production in myometrium of pregnant rats, effect of ritodrine, 463
- , dibutyryl cyclic, effect on histamine output and acid secretion in rat isolated gastric mucosa, 51
- Adenosine 5'-monophosphate, aggregation of rat neutrophils, 367
- Adenosine 5'-triphosphate, inhibition of effects of adenosine 5'-diphosphate on human platelets, 221
- -, production of aggregation of rat neutrophils, 367
- Adenylate cyclase, inhibition in human platelets by adenosine 5'-diphosphate, 221

- Adrenal glands, role in morphine-induced hyperthermia in rats, 565
- Adrenalectomy, effect on adrenocorticotrophic hormoneinduced release of anti-inflammatory and antiphospholipase proteins into peritoneal cavities, 185
- —, effect on blood pressure in normal and guanethidinetreated rats, 557
- —, effect on morphine-induced hyperthermia in rats, 565 Adrenaline, effect on cyclic adenosine 3',5'monophosphate, ²²Na-efflux, ⁴⁵K-influx and subtetanic contractions in soleus muscles isolated from guineapig, 313
- —, effect of, on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- , inhibition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271
- (+)-Adrenaline, inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121
- (-)-Adrenaline, inhibition of specific binding of [3H]dihydroxyergocryptine to intact human platelets, 121
- , pharmacological responses to, of human and porcine lung parenchyma, bronchus and pulmonary artery, 515
- , responses to, of isolated preparations of human and porcine lung parenchyma strip, 523
- **β-Adrenoceptor agonists,** preventive and curative effects on gastric damage in the rat, 587
- Adrenoceptor blockade, effect of CCI22277 in isolated rabbit heart, 337
- α-Adrenoceptor blocking agents, action in guinea-pig ileum, 569
- , inhibition of adrenaline-induced human platelet aggregation, 253
- **β-Adrenoceptor blocking agents,** action in guinea-pig ileum, 569
- **Adrenoceptors,** distribution and types in guinea-pig ileum, 569
- , distribution in longitudinal muscle cells of guinea-pig ileum, 603
- —, in submucous plexus-longitudinal muscularis mucosa preparation of the guinea-pig oesophagus, 271
- , pre- and postsynaptic, desensitization of responses to stimulation by noradrenaline, 201
- α-Adrenoceptors, platelet, differences from postsynaptic and presynaptic α-adrenoceptors, 253
- , postsynaptic on smooth muscles of guinea-pig ileum, effect of prazosin, phentolamine and phenoxybenzamine, 235
- -, pre- and postsynaptic, involvement in neuroeffector

- transmission in rabbit aorta and portal vein, 327
- , presynaptic on cholinergic nerve endings in guinea-pig ileum, lack of effect of prazosin, 235
- β-Adrenoceptors, comparative study in human and porcine lung parenchyma strip, 523
- , desensitization by terbutaline in guinea-pig soleus muscle, 313
- , effect of pharmacological activation, on gastric ulcer in the rat, 587
- —, identification in guinea-pig atria, 195
- Adrenocorticotrophic hormone, induction of release of anti-phospholipase proteins in rat peritoneal cavity, 185
- Adrenocorticotropin, effect of angiotensin II on plasma levels in the conscious rats, 579
- Age, effect on binding capacity of human platelets to [³H]dihydroergocryptine, 121
- **Aggregation,** human platelets, inhibition by benextramine, 253
- β-Alanine, effect on high potassium- and noradrenalineinduced contractions in rabbit ear artery, 149
- Althesin, effect on cerebral cortical responses in the rat, 541 Amiloride, effect on stimulation of sodium and of chloride transport in epithelia by forskolin in amphibian skin, 33
- Amino-oxyacetic acid, effect on onset pressure for tremor and convulsions in mice, 447
- γ-Aminobutyric acid, effect of electroconvulsive shock on concentrations in regions of the brain, 291
- , effect of facilitation of transmission on high pressure neurological syndrome in mice, 447
- [³H]-γ-aminobutyric acid, effect of tetanus toxin on release in rat substantia nigra, 403
- p-Aminohippurate, effect of lipid peroxidation on transport by rat kidney cortical slices, 373
- **4-Aminopyridine**, effect on acetylcholine output from cerebral cortex of rat *in vivo*, 439
- 5-Aminosalicyclic acid, effect on the stability of human colonic mucosa to metabolize prostaglandins in vitro, 157
- Anaesthetics, effect on cerebral cortical responses in the rat, 541
- Anaphylaxis, in guinea-pig isolated heart, protective effects of glucagon, 483
- Angiotensins, effect of intravenous infusion on β -endorphin release and on adrenocorticotrophin levels in plasma in the rat, 579
- Anti-arrhythmic drugs, electrophysiological and other effects on isolated rabbit heart, 357
- **Anti-inflammatory proteins,** induction of formation and release in rat peritoneal cavity by glucocorticoids, 185
- Anti-phospholipase proteins, anti-inflammatory effects in rat carageenin pleurisy model, 185
- Anti-muscarinic activity, of enantiomers of some analogues of oxotremorine in intact mice and isolated guinea-pig ileum, 299
- Anti-ulcer activity, of SCH 28080 in man, 389
- **Aorta,** rabbit, involvement of α -adrenoceptors in neuroeffector transmission, 327
- , rabbit, thromboxane sensitive contractile system, anatagonism, 423
- —, rat isolated, effect of dipyramidole on formation of 6-oxo-prostaglandin $F_1\alpha$, 453
- Aortic strip, rat, desensitization of responses to stimulation

- of pre- and postsynaptic adrenoceptors, 201
- **Arachidonic acid,** effect of dipyramidole on conversion by ram seminal vesicle microsomes, 453
- —, metabolism, 3
- production of larger contractions in indomethacintreated guinea-pig trachea, 527
- **Arrhythmias,** early iaschaemia-induced, effect of postligation administration of Org 6001 and disopyramide in the anaesthetized rat, 501
- —, effect of glucagon in guinea-pig isolated heart, 483
- resulting from acute coronary artery ligation, inhibition by naloxone in rats, 505
- Artery, rabbit ear, effect of taurine on high potassium- and noradrenaline-induced contraction, 149
- Artherosclerosis, effect of prostacyclin, 3
- **Ascorbic acid,** effect on lipid peroxidation of rat renal cortical slices, 373
- Aspirin, effect on haemostasis and thombosis, 3
- , with indomethacin or alone, effect on actions of prostaglandins on renal sodium and water reabsorbtion in the rat, 357
- Atenolol, effect on anti-ulcer activity of isoprenaline and salbutamol in the rat, 587
- -- , effect on clenbuterol enhanced quipazine hyperactivity in rats, 265
- , effect on isoprenaline-induced relaxations in human and porcine lung parenchyma strip, 523
- **Atrium,** guinea-pig, effects of H₁ and H₂ receptor agonists on stimulation-induced [³H]-noradrenaline release, 305
- —, guinea-pig, influence of drugs on noradrenaline overflow from, 195
- , rat, desensitization of responses to stimulation of preand postsynaptic adrenoceptors, 201
- Atropine, abolition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271
- , blockade of motor responses to intramural nerve stimulation and to drugs in rat small intestine, 531
- , effect of, on excitatory action of substance P on smooth muscle cells of guinea-pig ileum, 279
- , effect on gastric and salivary secretion induced by bethanechol in anaesthetized dog, 361
- , effect on responses of chick smooth muscles to acetylcholine, 177
- , effect on responses to acetylcholine and acetyl-βmethylcholine in cat, 595

B

- **Baclofen,** effect on excitatory actions of substance P on smooth muscle cells in guinea pig ileum, 279
- (-)-Baclofen, effect on monosynaptic excitation of cat single dorsal horn neurones, 473
- **Baroreflex sensitivity,** in rats treated neonatally with guanethidine, 557
- **Basic electrical rhythm,** effect of porcine glucagon in canine duodenum and jejunum, 245
- **Basophilic leukaemia cells,** rat, generation of leukotriene B₄ and its *trans* isomers, 215
- Benextramine, inhibition of adrenaline-induced platelet ag-

- gregation in humans, 253
- **Benzodiazepine receptors,** effect on, of electroconvulsive shock in rats, 291
- **Benztropine**, induction of prolongation of responses to vasodilator nerve stimulation of canine paw pad, 231
- **Benzylamine,** competition with tryptamine and β -phenylethylamine for uptake in rat lung, 77
- [14C]-benzylamine, uptake and metabolism in rat lung and liver, 77
- **Bethanechol,** induction of gastric and salivary secretion, effect of H₂-receptor antagonists and anticholinoceptor drugs in anaesthetized dog, 361
- **Bicuculline**, effect of drugs that increase γ-aminobutyric acid transmission on convulsion thresholds, 447
- , effect on reticulata neurone in tetanus toxin-treated nigra of circling rat, 403
- —, induction of seizures, effect on γ-aminobutyric acid concentrations in regions of the brain, 291
- **Blood flow,** effect of leukotrienes D₄ and C₄ in guinea-pig isolated hearts, 169
- —, muscosal, increase after salbutamol in anaesthetized rat, 587
- rat skin grafts, modification by cyclosporin-A, 491
- —, renal, effect of prostaglandin E_2 in rats anaesthetized with pentobarbitone, 131
- **Blood gases,** arterial and coronary, effect of lidoflazine in dogs, 347
- **Blood pressure**, arterial, in rats treated neonatally with guanethidine, 557
- -, effect of 4-aminopyridine in rats in vivo, 439
- —, effect of substance P on dimethylphenyl-piperazinium and acetylcholine-induced responses in the cat, 595
- —, rat, effect of MK 421 in relation to plasma renin activity, 163
- **Bronchoconstriction,** antigen-induced, effect of glucocorticoid pretreatment in guinea-pigs, 139
- **Bronchus,** human and porcine, responses to various drugs, 515
- **Budesonide**, effects of IgG-mediated and IgE-mediated lung anaphylaxis in guinea-pigs, 139
- **Butoxamine,** effect on clenbuterol enhanced quipazine hyperactivity in rats, 265
- —, effect on the inotropic and chronotropic responses of guinea-pig atria to adrenoceptor agonists, 195
- BW 755c, blockade of effect of indomethacin on arachidonic acid-induced responses in guinea-pig isolated trachea, 527

 \mathbf{C}

- Caffeine, effect on positive inotropic action of ketamine on rat isolated atria, 85
- Calcium, antagonism by CCI22277 in isolated rabbit heart,
- , effect of increased extracellular levels on inhibitory effects of morphine on acetylcholine release in guineapig brain slices, 393
- , effect of [Nle-8, Nle-18, Tyr-34]-bPTH-(3-34) amide on plasma levels in chick and parathyroidectomized rats, 259

- , effect on positive inotropic effect of ketamine in rat isolated atria, 85
- —, external, effect on histamine output in rat isolated gastric mucosa, 51
- , interactions with normorphine and magnesium, effect on excitatory junctional potential in mouse vas deferens, 45
- 45 Calcium, effect of ketamine on uptake and efflux in isolated atria of rat, 85
- Calcium current, effect of propranolol and local anaesthetics in *Helix* neurones, 37
- Calcium ions, effect on phasic and tonic responses to potassium chloride-induced contractions in rat vas deferens, 103
- **Captropril**, abolition of release of β -endorphin and pressor response to angiotensin I in the rat, 579
- Carbachol, pharmacological responses of human and porcine lung parenchyma, bronchus and pulmonary artery, 515
- Carbidine, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- **Catatonia**, induction by Δ^9 -tetrahydrocannabinol after intravenous administration to the rat, 115
- Catecholamines, inhibitory actions on electrically-induced contractions in muscularis mucosae preparations of guinea-pig oesophagus, 271
- Catecholamines, transport in isolated lung parenchyma of pig, 507
- Caudate nucleus, effect of naloxone on opioid-induced inhibition and facilitation of acetylcholine release, 393
- CCI22277, electrophysiological and other effects on rabbit hearts, 337
- Cerebral cortex, effect of naloxone on opioid-induced inhibition and facilitation of acetylcholine release, 393
- , rat, effect of 4-aminopyridine on output of acetylcholine in vivo, 439
- , rat, effect of anaesthetic agents on responses to electrical stimuli applied to the forepaw, 541
- Chemical sympathectomy, effect on role of adrenal glands in morphine-induced hyperthermia in rats, 565
- Chloral hydrate, effect on cerebral cortical responses in the rat, 541
- **Chlordiazepoxide**, effect on cerebral cortical responses in the rat, 541
- **Chloride**, stimulation of transport in epithelia by forskolin in amphibian skin and rat colon, 33
- 5-Chloro-4(2-imidazolin-2-yl-amino)-2,1,3-benzothiodazole see DS103-282
- **2-Chloroadenosine,** effect on isolated guinea-pig trachea, 381
- **Chloroform,** effect on cerebral cortical responses in the rat,
- **Chlorpromazine,** effect on cerebral cortical responses in the rat, 541
- , inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- Cholinergic innervation, establishment in small intestine of embryonic rats, 531
- **Chronotropic responses,** of right atria to noradrenergic nerve stimulation and noradrenaline, in rats treated neonatally with guanethidine, 557
- , to stimulation of pre- and post synaptic adrenoceptors, effect of noradrenaline, 201

- **Cimetidine,** effect on basal gastric acid secretion in the rat, 551
- , effect on gastric and salivary secretion induced by bethanechol in anaesthetized dog, 361
- , inhibition of effect of impromidine on stimulationinduced release of [3H]-noradrenaline in guinea-pig isolated atria, 305
- **Circling,** induction after intranigral injection of tetanus toxin in rat, 403
- methamphetamine-induced, lack of effect of clenbuterol in rats, 265
- **Clenbuterol**, effect on 5-hydroxytryptamine-mediated behavioural responses, 265
- **Clonidine**, effect on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum. 603
- —, effect on stimulation-evoked tritium overflow from rabbit aorta and portal vein, 327
- , inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121
- Cocaine, effect on desensitization by noradrenaline of responses to stimulation of pre- and postsynaptic adrenoceptors, 201
- , effect on impromidine-increased release of [3H]noradrenaline after stimulation in guinea-pig isolated atria, 305
- , effect on responses of pig lung parenchyma to catecholamines, 507
- Colon, rat, stimulation of sodium and chloride transport in epithelia by forskolin, 33
- **Colonic mucosa**, human, effect of sulphasalazine and metabolites and indomethacin on the ability to metabolize prostaglandins *in vitro*, 157
- Conduction velocity, effect of CCI22277 in rabbit hearts,
- **Contractions,** arachidonic acid-induced in indomethacintreated guinea-pig trachea, 527
- , effect of adrenaline and terbutaline in guinea-pig isolated soleus muscle, 313
- -, effect of CCI22277 in rabbit atria, 337
- , electrically-induced in submucous plexus-longitudinal muscularis mucosae of guinea-pig oesophagus, effect of catecholamines, 271
- , high potassium- and noradrenaline-induced in rabbit ear artery, effect of taurine, 149
- , potassium chloride-induced in rat vas deferens, effect of calcium ion deprivation, 103
- —, stimulation-evoked, effect of α-adrenoceptor agonists and antagonists in rabbit aorta and portal veins, 327
- **Coronary artery ligation,** induction of early arrhythmias, inhibition by naloxone in rats, 505
- **Coronary artery occlusion,** induction of arrhythmias, effect of lidoflazine in dogs, 347
- Cortisol, effect on responses of pig lung parenchyma to catecholamines, 507
- **Convulsion thresholds,** to bicuculline, effect of drugs that increase γ-aminobutyric acid transmission in mice, 447
- **Creatine phosphokinase,** glucagon inhibition of release from anaphylactic guinea-pig hearts, 483
- Crude venom, Australian taipan, myotoxic activity in rat soleus muscle, denervated mammalian muscles and innervated avian muscles, 61

- **Cyclo-oxygenase inhibition,** effect on renal function in rats, 357
- **Cyclopropane,** effect on cerebral cortical responses in the rat, 541
- 5'-N-cyclopropylcarboxamide adenosine, effect on isolated guinea-pig trachea, 381
- Cyclosporin-A, modification of blood flow, histamine content and histidine decarboxylase activity in rat skin grafts, 491
- **Cytidine 5'-diphosphate,** aggregation of rat neutrophils, 367
- **Cytidine 5'-triphosphate,** aggregation of rat neutrophils, 367

D

- **Dantrolene sodium,** effect on potassium chloride-induced contractions in rat vas deferens, 103
- **Denervation supersensitivity,** of left atria and hepatic portal veins in rats treated neonatally with guanethidine, 557
- **Deprenyl**, effect on monoamine uptake and metabolism in rat lung and liver, 77
- **Desipramine,** effect on responses of pig lung parenchyma to catecholamines, 507
- **Dexamethasone,** blockade of angiotensin II-induced β -endorphin release in rat, 579
- , induction of release of anti-phospholipase proteins in rat peritoneal cavity, 185
- **Diaminobutyric acid,** effect on onset pressure for tremor and convulsions in mice, 447
- **Diazepam,** effect on cerebral cortical responses in the rat, 541
- [3H]-diazepam, effect of electroconvulsive shock on binding in regions of the brain, 291
- **Diazoxide**, effect of potassium chloride-induced contractions in rat vas deferens, 103
- **Diethyl ether,** effect on cerebral cortical responses in the rat, 541
- **Dihydroergocryptine,** inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- 3,4 Dihydroxy-2-methyl propriophenone see U-0521
- **Dilazep**, effect on responses of guinea-pig trachea to adesnosine and its 5'- and N⁶-substituted analogues, 381
- **1,1-Dimethyl-4-phenylpiperazinium,** pharmacological responses of human lung parenchyma, bronchus and pulmonary artery, 515
- **Dimethylphenyl-poperazinium,** peripheral actions in cat, inhibition by substance P, 595
- N,N'-diphenyl-p-phenyldiamine, effect on lipid peroxidation and p-aminohippurate accumulation in rat renal cortical slices, 373
- Dipyridamole, effect on responses of guinea-pig treachea to adenosine and its 5'- and N⁶-substituted analogues, 381
- —, effect on the formation of 6-oxo-prostaglandin $F_{1\alpha}$ by rat isolated aorta and ram seminal vesicle microsomes, 453
- **Disopyramide**, effect of postligation administration on early ischaemia-induced arrhythmias in the anaesthetized rat, 501
- **Dobutamine**, effect on release of [3H]-noradrenaline in guinea-pig atria, 195

Dopamine, effect of melatonin on brain levels in rat, 95

- , inhibition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271
- , inhibition of specific binding of [3H]dihydoergocryptine to intact human platelets, 121
- responses of rat nigral neurones, effect of tetanus toxin, 403

Dorsal horn neurones, effects of DS103-282 on mono- and polysynaptic excitation in cats, 473

DS103-282, effect on synaptic transmission of spinal neurones in cats, 473

Duodenum, dog, action of porcine glucagon on motility, 245

E

Ectopic beats, ventricular, effect of lidoflazine in dogs, 347 **5,8,11,14, Eicosatetraynoic acid,** blockade of effects of indomethacin on arachidonic acid-induced responses in guinea-pig isolated trachea, 527

Electrical activities, of myometrium of pregnant rats, effect of ritodrine, 463

Electrical field stimulation, development of motor responses to, in foetal and neonatal rat small intestine, 531

Electrical membrane properties, effects of substance P in smooth muscle cells of guinea-pig ileum, 279

Electrical properties, of isolated rat atria, effect of ketamine, 85

Electrical stimulation, cerebral cortical responses to, effect of anaesthetic agents in the rat, 541

Electroconvulsive shock, effect on [³H]-diazepam binding and γ-aminobutyric acid concentration in different regions of brain, 291

Electroencephalogram, effect of melatonin in the rat, 95 β-Endorphin-like material, induction of release by angiotensin in the conscious rat, 579

Enflurane, effect on cerebral cortical responses in the rat,

Enkephalin, d-Ala²-d-Leu⁵-, effect on acetylcholine release in guinea-pig brain slices, effect of naloxone, 393

 Met-, effect on acetylcholine release in guinea-pig brain slices, effect of naloxone, 393

Ep 045, blockade of the actions of thromboxane A₂ and its analogues on contractile systems of rabbit aorta, dog saphenous vein and guinea-pig trachea, 423

Ephedrine, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569

Ethyl-vinyl ether, effect on cerebral cortical responses in the rat, 541

5'-N-ethylcarboxamide adenosine, effect on isolated guinea-pig trachea, 381

Excitatory junction potentials, dependence of amplitude on extracellular calcium in the absence or presence of normorphine or magnesium, 45

F

Fibrilloflutter, ventricular, effect of intravenous injection of Org 6001 or disopyramide in the anaesthized rat, 501

Flunarizine, effect on potassium chloride-induced contractions in rat vas deferens, 103

Fluorescence histochemical studies, demonstration of damage done by neonatal treatment with guanethidine in rats, 557

Flurazepam, effect on onset pressure for tremor and for convulsions in mice, 447

Flurothyl, induction of seizures, effect on γ -aminobutyric acid concentrations in regions of the brain, 291

Forepaw treading, quipazine-induced, effect of β-adrenoceptor agonists in rats, 265

Forskolin, stimulation of sodium and chloride transport in epithelia of amphibian skin and rat colon, 33

FPL 55712, effect on actions of leukotrienes C₄ and D₄ in isolated guinea-pig hearts, 169

G

Gastric acid, effect of cimetidine on basal secretion in the rat, 551

- , effect of H₂-receptor antagonists and anticholinoceptor drugs on bethanechol-induced secretion in anaesthetized dog, 361
- -, effect of SCH 28080 on secretion in man, 389
- —, effect of secretagogues on secretion in isolated gastric mucosa of the rat, 51
- —, effect on the anti-ulcer activity of salbutamol in the rat, 587

Gastric ulcers, effects of β -adrenoceptor drug stimulation on various rat models, 587

Gastrin, effect on histamine output and acid secretion in rat isolated gastric mucosa, 51

Glucagon, porcine, action on the motility of canine duodenum and jejunum, 245

 , protective effects on anaphylactic response in guineapig isolated heart, 483

Glycine, responses of rat nigral neurones, effect of tetanus toxin, 403

Guanethidine, assessment of effectiveness of neonatal treatment as a means of producing sympathectomy in the rat, 557

Guanosine 5'-diphosphate, aggregation of rat neutrophils,

Guanosine 5'-triphosphate, aggregation of rat neutrophils, 367

Н

Haemodynamic effects, of lidoflazine in anaesthetized greyhounds, 347

Haloperidol, effect on cerebral cortical response in the rat, 541

 , inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121

Halothane, effect on cerebral cortical responses in the rat, 541

Headweaving, quipazine-induced, effect of β -adrenoceptor agonists in rats, 265

Heart, guinea-pig isolated, actions of leukotrienes C_4 and D_4 , 169

- —, guinea-pig isolated, protective effects of glucagon during the anaphylactic response, 483
- , rabbit, electrophysiological and other effects of CCI22277, a steroidal antiarrhythmic drug, 337

Hexamethonium, effect on responses to acetylcholine in cat, 595

High pressure neurological syndrome, effect of drugs that facilitate γ-aminobutyric acid transmission in mice, 447

Hind-limb abduction, quipazine-induced, effect of β -adrenoceptor agonists in rats, 265

Histamine, anaphylactic release, effect of glucagon pretreatment, 483

- —, effect of budesonide on release from lung of guinea-pig sensitized to IgG and IgE, 139
- , increased output from rat isolated gastric mucosa in response to pentagastrin and methacholine, 51
- , induction of acute ulcers, effect of salbutamol in the rat,
 587
- , induction of bronchoconstriction, effect of budesonide in guinea-pigs, 139
- , inhibition of specific binding of [3H]-dihydroergocryptine to intact human platelets, 121
- , pharmacological response of human and porcine lung parenchyma, bronchus and pulmonary artery, 515
- , rat skin grafts, modification of content in cyclosporin-A in rat skin grafts, 491
- , reduction of intragastric content by salbutamol in the rat, 587

Histamine H₂-receptor antagonists, effects on bethanecholinduced gastric and salivary secretion in the anaesthetized dog, 361

Histidine decarboxylase, effect of cyclosporin-A on activity in rat skin grafts, 491

Homotaurine, effect on high potassium- and noradrenalineinduced contractions in rabbit ear artery, 149

Hydralazine, effect on potassium chloride-induced contractions in rat vas deferens, 103

Hydrocortisone, effects on IgG-mediated and IgE-mediated lung anaphylaxis in guinea pigs, 139

 , induction of release of anti-phospholipase proteins in rat peritoneal cavity, 185

Hydrogen ions, reduction of intragastric content by salbutamol in the rat, 587

5-Hydroxyeicosatetraenoic acid, generation by rat basophilic leukaemia cells, 215

5-Hydroxyindoleacetic acid, effect of melatonin on brain levels in rat, 95

5-Hydroxytryptamine, effect of melatonin on brain levels in rat, 95

- , effect of repeated lithium injection on subcellular distribution in rat brain, 413
- , inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- —, pharmacological responses of human porcine lung parenchyma, bronchus and pulmonary artery, 515
- responses of rat nigral neurones, effect of tetanus toxin, 403

Hyperactivity, 5-hydroxytryptamine-mediated, effect of β -adrenoceptor agonists in rats, 265

Hypertension, effect of MK 421 in relation to plasma renin activity in rats, 163

Hyperthermia, morphine-induced, role of adrenal glands in rats, 565

Hypothalamus, rat, effect of Δ⁹-tetrahydrocannabinol on endogenous prostaglandin levels, 115

Hypothermia, induction by intravenous administration of Δ^9 -tetrahydrocannabinol to the rat, 115

I

IgE, sensitization of guinea-pigs, effect of budesonide and hydrocortisone on lung anaphylaxis, 139

IgG, sensitization of guinea-pigs, effect of budesonide and hydrocortisone on lung anaphylaxis, 139

lleum, guinea-pig, effect of α- and β-agonists and antagonists on neurogenic twitches and smooth muscles, 569

- , guinea-pig, effect of leukotriene B₄ and its trans isomers on smooth muscle, 215
- , guinea-pig, homogeneous and non-homogeneous distribution of adrenoceptors in longitudinal muscle cells, 603

Isoprenaline, effect on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603

 , inhibition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271

Imipramine, inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121

Impromidine, effect on stimulation-induced release of [³H]noradrenaline in guinea-pig isolated atria, 305

Indomethacin, effect on actions of leukotrienes C₄ and D₄ in isolated guinea-pig hearts, 169

- , effect on the ability of human colonic mucosa to metabolize prostaglandins in vitro, 157
- , induction of acute ulcers, effect of salbutamol in the rat,
 587
- , effect on aggregation of neutrophils by nucleotide triphosphates, 367
- , with aspirin or alone, effect on actions of prostaglandins on renal sodium and water reabsorbtion in rat, 357

Inotropic effect, induction in rat isolated atria by ketamine, 85

Inotropic responses, to stimulation of pre- and postsynaptic adrenoceptors, effect of noradrenaline, 201

Insulin, stimulation of ²² sodium efflux in guinea-pig isolated soleus muscle, 313

Iproniazid, effect on desensitization by noradrenaline of responses to stimulation of pre- and postsynaptic adrenoceptors, 201

Iron ions, effect on lipid peroxidation of rat renal cortical slices, 373

Isoprenaline, anti-ulcer activity in the rat, 587

- , comparison of potency with ritodrine in smooth muscle cells of myometrium of pregnant rats, 463
- , effect on release of [3H]-noradrenaline in guinea-pig atria, 195
- , induction of relaxation of guinea-pig isolated trachea, effect of budesonide, 139
- , inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- (±)-Isoprenaline, pharmacological responses of human porcine lung parenchyma, bronchus and pulmonary artery, 515
- —, responses of isolated preparations of human and por-

cine lung parenchyma strip, 523

[³H]-(±)-isoprenaline, responses of pig lung parenchyma to, 507

J

Jejunum, dog, action of porcine glucagon on motility, 245
Junction potentials, effect of substance P on smooth muscle
cells of longitudinal and circular muscles of guinea-pig
ileum, 279

K

Ketamine, effect on cerebral cortical responses in the rat, 541

- —, mechanism of positive inotropic action on isolated atria of the rat, 85
- **Kidney,** blood flow, effect of intra-aortic administration of prostaglandin E₂ in rat anaesthetized with pentobarbitone, 131
- , rat, effect of lipid peroxidation on p-aminohippurate transport by cortical slices, 373
- rat, effects of prostaglandins on renal sodium and water reabsorbtion, 357

L

Lanthanum, effect on potassium chloride-induced contractions in rat vas deferens, 103

Lesions, inhibition of formation by salbutamol in the rat, 587

Leukotriene B₄, and its isomers, generation by rat basophilic leukaemia cells, 215

Leukotriene C₄, actions on guinea-pig isolated hearts, 169 Leukotriene D₄, actions on guinea-pig isolated hearts, 169 Lidoflazine, effects in early stages of acute myocardial ischaemia, 347

Lignocaine, effect on calcium current in *Helix* neurones, 37 **Lipid peroxidation,** effect on *p*-aminohippurate transport by rat kidney cortical slices, 373

Lipidmodulin, identification as anti-phospholipase protein released by glucocorticoids into rat peritoneal cavity, 185

β-Lipotropin-like material, induction of release by angiotensin in the conscious rat, 579

Lithium, effect of repeated administration on subcellular distribution of 5-hydroxytryptamine in rat brain, 413

Liver, rate-limiting step in metabolism of monoamines, 77 Local anaesthesia, induction by CCI22277 in frog nerve, 337

Local anaesthetics, effect on calcium current in *Helix* neurones, 37

Longitudinal muscle ceils, guinea-pig ileum, effects of adrenoceptor agonists and antagonists on spontaneous and evoked membrane activities, 603

Lung, guinea-pig, effects of budesonide on anaphylaxis after active sensitization to IgG or IgE, 139

- , piglet, effect of sulphasalazine on inactivation of prostaglandin F_{2n}, 319
- —, rat, rate-limiting step in the metabolism of monamines,

Lung parenchyma, human and porcine, responses to various drugs, 515

-, isolated pig, catecholamine transport, 507

Lung parenchyma strip, human and porcine, a comparative study of β -adrenoceptors 532

M

Macrocortin, identification as anti-phospholipase protein released by glucocorticoids into rat peritoneal cavity, 185

Magnesium, effect on histamine output in rat isolated gastric mucosa, 51

 , interaction with calcium, effect on excitatory junctional potential in mouse vas deferens, 45

Maganese, effect on potassium chloride-induced contractions in rat vas deferens, 103

Mast cells, effect of cyclosporin-A on populations in rat skin grafts, 491

Mechanical activities, of myometrium of pregnant rats, effect of ritodrine, 463

Mechanical properties, of guinea-pig ileum, effect of substance P, 279

, of isolated rat atria, effect of ketamine, 85

Melatonin, effect on sleep and neurochemistry in the rat, 95 Membrane activities, spontaneous and evoked in longitudinal muscle of guinea-pig ileum, effect of adrenoceptor agonists and antagonists, 603

Mepyramine, inhibition of effect of impromidine on stimulation-induced release of [3H]-noradrenaline in guinea-pig isolated atria, 305

Methacholine, effect on histamine output and acid secretion in rat isolated gastric mucosa, 51

- , induction of bronchoconstriction, effect of budesonide in guinea-pigs, 139
- , pharmacological responses of human and porcine lung parenchyma, bronchus and pulmonary artery, 515

Methamphetamine, induction of circling in rats, effect of clenbuterol, 265

Methoxamine, desensitization of responses to stimulation of pre- and postsynaptic adrenoceptors, 201

 , inhibition of specific binding of [3H]dihydroergocryptine, to intact human platelets, 121

5-Methoxy N,N-dimethyltryptamine, behavioural responses to, effect of α-adrenoceptor agonists in rats,

Methoxyflurane, effect on cerebral cortical responses in the rat, 541

Methoxyverapamil, effect on potassium chloride-induced contractions in rat vas deferens, 103

Methyl 2β-ethoxy-2α-hydroxy-11α-(3-methyl-butylamino)-5α-androstane-17β-carboxylate hydrochloride see CCI22277

2-Methyl-8-(phenyl methoxy) imidazo- (1-2-a) pyrine-3acetonitrile see SCH 28080

 α - β -Methylene adenosine 5'-triphosphate, lack of aggrega-

tion of rat neutrophils, 367

 β' - γ -Methylene adenosine 5'-triphosphate, lack of aggregation of rat neutrophils, 367

4(5)-Methylhistamine, effect on histamine output and acid secretion in rat isolated gastric mucosa, 51

3-O-methylisoprenaline, effect on responses of pig lung parenchyma to catecholamines, 507

Metoprolol, blockade of clenbuterol effects on quipazine hyperactivity in rats, 265

—, increase of stimulation-induced [3H]-noradrenaline release in guinea-pig isolated atria, 305

MK 421, antihypertensive effect in relation to plasma renin activity in the rat, 163

Morphine, effect of pretreatment on the actions of aminopyridine on acetylcholine output from rat cerebral cortex *in vivo*, 439

—, effect on acetylcholine release in guinea-pig brain slices, effect of naloxone, 393

 , induction of hyperthermia, role of adrenal glands in rats, 565

Mortality, effect of postligation administration of Org 6001 and disopyramide on early ischaemia-induced arrythmias in anaesthetized rat, 501

Motility, effect of porcine glucagon in cainine duodenum and jejunum, 245

Mucosal blood flow, increase after salbutamol in anaesthetized rat, 587

Muscarinic activity, of enantiomers of some analogues of oxotremorine in intact mice and isolated guinea-pig ileum, 299

Muscarinic receptors,

 , smooth muscle, effects of noradrenergic denervation, 177

Muscimol, effect on onset pressure for tremor and convulsions in mice, 447

Muscles, denervated mammalian and innervated avian, myotoxic effect of Taipan crude venom and taipoxin,

Myocardial ischaemia, effect of lidoflazine in dogs and rats, 347

 —, effect of naloxone administered before coronary artery ligation, 505

Myometrium, pregnant rat, effect of ritodrine on smooth muscle cells, 463

N

Naloxone, effect of opioid-induced inhibition and facilitation of acetylcholine release in guinea-pig brain slices, 303

—, inhibition of early arrhythmias resulting from coronary artery ligation, 505

Neuroeffector transmission, effect of substance P in guineapig ileum, 279

 involvement of α-adrenoceptors in rabbit aorta and portal vein, 327

Neurogenic twitches, effect of α - and β -agonists and antagonists in guinea-pig ileum, 569

Neutrophils, aggregation by nucleotide triphosphates in rats, 367

Nicotinic receptors, modulatory actions of substance P in

cat, 595

Nictitating membrane, cat, effect of substance P on acetylcholine-induced contractions, 595

Nifedipine, effect on potassium chloride-induced contractions in rat vas deferens, 103

Nitrous oxide, effect on cerebral cortical responses in the rat, 541

[Nie-8, Nie-18, Tyr-34]-bPTH-bPTH-(3-34) amide, effects on actions of parathyroid hormone, 259

Noradrenaline, content of right and left atria and ventricle in rats treated neonatally with guanethidine, 557

 , desensitization of responses to stimulation of pre- and postsynaptic adrenoceptors, 201

-, effect of melatonin on brain levels in rat, 95

 , effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569

 , effect on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603

 , induction of contractions in rabbit ear artery, effect of taurine. 149

 , influence of drugs on the overflow from guinea-pig atria, 195

 , inhibition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271

 relaxant effect on guinea-pig isolated ileum, effects of prazosin, phentolamine, yohimbine and phenoxybenzamine, 235

—, responses of rat nigral neurones, effect of tetanus toxin, 403

—, sites of uptake and metabolism of pig lung parenchyma,

[3H]-noradrenaline, strimulation-induced release in guinea-pig isolated atria, effect on H₁ and H₂ receptor agonists in guinea-pig isolated atria, 305

(+)-Noradrenaline, inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121

(-)-Noradrenaline, inhibition of specific binding of [3H]dihydroergocryptine to intact human platelets, 121

 , pharmacological responses of human porcine lung parenchyma, bronchus and pulmonary artery, 515

 response of isolated preparations of human and porcine lung parenchyma strip, 523

[³H]-(-)-noradrenaline, responses of pig lung parenchyma to, 507

Noradrenergic denervation, effects on muscarinic receptors of smooth muscles, 177

Noradrenergic nerves, peripheral, damage after neonatal guanethidine treatment in the rat, 557

Nordihydroguaiaretic acid, effect on aggregation of neutrophils by nucleotide triphosphates, 367

Normetanephrine, effect on responses of pig lung parenchyma to catecholamines, 507

Normorphine, interactions with calcium, effect on excitatory junction potential in mouse vas deferens, 45

o

Oesophagus, guinea-pig, inhibitory actions of catecholamines on electrically-induced contractions in muscularis mucosae preparations, 271

Oestradiol, effect on desensitization by noradrenaline

- of responses to stimulation of pre- and postsynaptic adrenoceptors, 201
- **Opioids,** induction of inhibition and facilitation of acetylcholine release in brain slices, effect of naloxone, 393
- Org 6001, effect of postligation administration on early ischaemia-induced arrhythmias in the anaesthetized rat, 501
- **Ouabain,** effect on responses of pig lung parenchyma to catecholamines, 507
- Oxotremorine analogues, enantiomers, investigation for tremorogenic and tremorolytic activity in intact mice and muscarinic and antimuscarinic activity in isolated ileum of guinea-pig, 299
- Oxymetazoline, inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121
- **Ovalbumin,** increased creatine phosphokinase levels in coronary venous effluent, effect of glucagon pretreatment, 483

P

- Paradoxical sleep, effect of melatonin in the rat, 95
- Parathyroid hormone, actions of, effect of Nle-8, Nle-18, Tyr-34-bPTH-(3-34) amide in vivo, 259
- Parenchymal strips, guinea-pig, effect of leukotriene B₄ and its *trans* isomers, 215
- **Pargyline**, effect on desensitization by noradrenaline of responses to stimulation of pre- and postsynaptic adrenoceptors, 201
- Paw pads, dog, benztropine-induced prolongation of responses to vasodilator nerve stimulation, 231
- Pentagastrin, effect on histamine output and acid secretion in rat isolated gastric mucosa, 51
- **Pentobarbitone**, effect on cerebral cortical response in the rat, 541
- , effect on renal vasodilator activity of prostaglandin E₂ in the rat, 131
- **Pepsin,** reduction of intragastric content by salbutamol in the rat, 587
- Peptic activity, effect of SCH 28080 in man, 389
- Peritoneal cavity, rat, induction and release of antiinflammatory and anti-phospholipase proteins by glucocorticoids, 185
- **Phenoxybenzamine**, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- , effect of pre-exposure on the action of rauwolscine on stimulation-evoked tritium overflow and contractions in rabbit portal vein, 327
- ---, effect on responses of pig lung parenchyma to catecholamines, 507
- —, effects on inhibitory α-adrenoceptors in guinea-pig isolated ileum, 235
- , inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121
- **Phentolamine,** effect of adrenoceptor agonists and antagonists on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603
- , effect on impromidine-increased release of [3H]noradrenaline after stimulation in guinea-pig isolated atria, 305

- —, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- —, effect on release of [3H]-noradrenaline in guinea-pig atria, 195
- —, effect on responses of pig lung parenchyma to catecholamines, 507
- ---, effects on inhibitory α-adrenoceptors in guinea-pig isolated ileum, 235
- , inhibition of specific binding of [3H]dihydroergocryptine to intact human platelets, 121
- reversal of inhibitory actions of adrenaline, dopamine and noradrenaline on electrically-induced contractions in guinea-pig oesophagus preparations, 271
- **Phenylephrine**, effect on spontaneous and evoked membrane activities of longitudinal muscle cells of guineapig ileum, 603
- -- , effect on stimulation-evoked tritium overflow from rabbit aorta and portal vein, 327
- (-)-Phenylephrine, inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- β -Phenylethylamine, competition with benzylamine and tryptamine for uptake in rat lung, 77
- D-N⁶-phenyliaopropyladenosine, effect on isolated guineapig trachea, 381
- L-Né-phenylisopropyladenosine, effect on isolated guineapig trachea, 381
- **8-Phenyltheophylline,** effect on response of guinea-pig trachea to adenosine and its 5'- and N⁶-substituted analogues, 381
- **Phosphate**, plasma levels of [Nle-8, Nle-18, Tyr-34] bPTH-(3-34) amide in parathyroidectomized rats, 259
- Physostigmine, potentiation of contractions induced by electrical stimulation in guinea-pig oesophagus preparations. 271
- **Pirenzepine**, effect on gastric and salivary secretion induced by bethanechol in anaesthetized dog, 361
- **Piretanide**, effect on stimulation of sodium and of chloride transport in epithelia by forskolin in amphibian skin or rat colon, 33
- **Pizotifen,** inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121
- **Polymorphonuclear leucocytes,** aggregation by nucleotide triphosphates, 367
- -, aggregation by trans isomers of leukotriene B₄, 215
- **Polymyxin B,** induction of acute ulcers, effect of salbutamol in the rat 587
- **Portal vein,** rabbit, involvement of α-adrenoceptors in neuroeffector transmission, 327
- **Potassium,** development of motor responses to excess, in foetal and neonatal rat small intestine, 531
- , induction of contraction in rabbit ear artery, effect of taurine, 149
- 42Potassium, effect of adrenaline and terbutaline on influx in guinea-pig isolated soleus muscles, 313
- **Potassium chloride,** induction of contractions in rat vas deferens, effect of calcium ion deprivation, 103
- **Plasma**, parathyroidectomized rat, effect of [Nle-8, Nle-18, Tyr-34] bPTH-(3-34) amide on calcium and phosphate levels. 259
- -- , rat, effect of renin activity with antihypertensive effect of MK 421, 163
- **Platelets,** human, binding characteristics of [³H]-dihydroergocryptine, 121

- , human, induction of aggregation by adenosine 5'diphosphate, 221
- , human, inhibition by benextramine of adrenalineinduced aggregation, 253
- , interactions with vascular walls, effect of prostacyclin,
- **Practolol,** effect on the inotropic and chronotropic responses of guinea-pig atria to adrenoceptor agonists, 195
- Prazosin, effect on actions of adrenoceptor agonists and antagonists on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603
- —, effect on inhibitory α-adrenoceptors in guinea-pig isolated ileum, 235
- —, effect on stimulation-evoked contractions in rabbit aorta and portal vein, 327
- , inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121
- Premature ventricular sistoles, effect of intravenous injections of Org 6001 or disopyramide in the anaesthetized rat. 501
- Procaine, effect on calcium current in *Helix* neurones, 37Propranolol, abolition of anti-ulcer effect of isoprenaline and salbutamol in the rat, 587
- —, effect on actions of adrenoceptor agonists and antagonists on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603
- -, effect on calcium current in Helix neurones, 37
- , effect on isoprenaline-induced relaxations in human and porcine lung parenchyma strip, 523
- —, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- reversal of inhibitory actions of adrenaline, noradrenaline and isoprenaline on electrically-induced contractions in guinea-pig oesophagus preparations, 271
- , supression of effects of ritodrine in myometrium of pregnant rats, 463
- (+)-Propranolol, effect of pretreatment on effects of electroconvulsive shock on regions of the brain, 291
- (-)-Propranolol, inhibition of specific binding of [³H]-dihydroergocryptine to intact human platelets, 121

Prostacyclin, biological importance, 3

Prostacylin synthetase, 3

- **Prostaglandin D₂**, and its analogues, contraction of smooth muscle preparations, 423
- **Prostaglandin E₂**, and its analogues, contraction of smooth muscle preparations, 423
- , renal vasodilator activity in rat anaesthetized with pentobarbitone, 131
- Prostaglandin E₂-like material, effect of Δ° tetrahydrocannabinol on hypothalamic levels in the
 rat, 115
- Prostaglandin $F_{1\alpha}$, 6-oxo-, effect of dipyramidole on formation in rat isolated aorta and ram seminal vesicle microsomes, 453
- **Prostaglandin F₂**, and its analogues, contraction of smooth muscle preparations, 423
- , inhibition of metabolism by sulphasalazine in piglet lung homogenates, 319
- Prostaglandins, effect of sulphasalazine, its metabolites and indomethacin on metabolism in human colonic mucosa in vitro, 157

- , effect on renal sodium and water reabsorption in rats,
 357
- —, endogeneous, alterations induced in rat brain hypothalamus by Δ^9 -tetrahydrocannabinol, 115
- **Pulmonary artery**, human and porcine, responses to various drugs, 515
- **Purkinje cells,** effect of CCI22277 in isolated rabbit hearts, 337
- 2-(2-Pyridyl)-ethylamine, effect on stimulation-induced release of [3H]-noradrenaline in guinea-pig isolated atria, 305

Q

- [3H]-quinuclidinyl benzoate, effect on responses of chick smooth muscles to acetylcholine, 177
- **Quipazine,** behavioural responses to, effect of β -adrenoceptor agonists in rats, 265

R

- **Ranitidine,** effect on gastric and salivary secretion induced by bethanechol in anaesthetized dog, 361
- Rauwolscine, effect on stimulation-evoked tritium overflow from rabbit aorta and portal vein, 327
- **Regeneration,** of muscles after treatment with taipan crude venom and taipoxin, 61
- Relaxation, in guinea-pig trachea, mediation by adenosine receptor, 381
- Renin, plasma activity in relation to antihypertensive effect of MK 421 in the rat, 163
- Renin-angiotensin system, influence on plasma β endorphin-like immunoreactivity in the conscious rat,
 579
- **Renshaw cells,** effects of DS103-282 on chemical and synaptic excitation in cat spinal preparations, 473
- Reserpine, induction of acute ulcers, effect of salbutamol in the rat, 587
- Respiratory frequency, in relation to 4-aminopyridineinduced increases in cortical acetylcholine output, 439
- Ritodrine, effect on electrical and mechanical activities in myometrium of pregnant rats, 463

S

Salbutamol, anti-ulcer activity in the rat, 587

- effect on 5-hydroxytryptamine mediated behavioural responses, 265
- —, effect on release of [3H]-noradrenaline in guinea-pig atria, 195
- Salicylate, mechanisms of elevation of rat brain tryptophan concentrations, 211
- Saliva, effect of H₂-receptor antagonists and anticholinoceptor drugs on bethanechol-induced secretion in anaesthetized dog, 361
- **Saphenous vein,** dog, thromboxane-sensitive contractile systems, antagonism, 423
- Saralsin, blockade of angiotensin II-induced β -endorphin release in rat, 579

SCH 28080, inhibitory effects on gastric secretion in man,

Sedation, induction by intravenous administration of Δ° tetrahydrocannabinol to the rat, 115

Seizures, bicuculline-induced, effect on γ-aminobutyric acid concentrations in regions of the brain, 291

 –, flurothyl-induced, effect on γ-aminobutyric acid concentrations in regions of the brain, 291

Seminal vesicles, ram, effect of dipyramidole on formation of 6-oxo-prostaglandin $F_{1\alpha}$ in microsomes, 453

Short circuit current, effect of forskolin in epithelia of amphibian skin and rat colon, 33

Skin, amphibian, stimulation of sodium and chloride transport in epithelia by forskolin, 33

Skin grafts, rat, effect of cyclosporin-A on survival, 491

Slow wave sleep, effect of melatonin in the rat, 95

Small intestine, rat, development of motor response to intramural nerve stimulation and to drugs, 531

Smooth muscle, chick, effects of noradrenergic denervation on muscarinic receptors, 177

—, guinea-pig ileum, effects of α- and β-agonists and antagonists, 569

guinea-pig ileum, effects of substance P, 279

—, pregnant rat, effects of ritodrine in myometrium, 463

Smooth muscle preparations, effect of thromboxane A₂ and prostaglandins in rabbit, dog and guinea-pig, 423

Sodium, renal excretion, effect of prostaglandins in rats, 357

 -- , effect on positive inotropic effect of ketamine in rat isolated atria, 85

 , stimulation of transport in epithelia by forskolin in amphibian skin and rat colon, 33

²²Sodium, effect of adrenaline and terbutaline on efflux in guinea-pig isolated soleus muscles, 313

Soleus muscle, guinea-pig isolated, effect of terbutaline and adrenaline on cyclic adenosine 3',5'-monophosphate, ²²sodium efflux, ⁴²potassium influx and subtetanic contractions, 313

Spinal neurones, cat, effect of iontophoreticaly administered DS103-282 on synaptic and amino acid-induced inhibition, 473

Spinal reflexes, effect of DS103-282 in cats, 473

Spiroperidol, blockade of morphine-induced facilitation of acetylcholine release in guinea-pig caudate slices, 393

Splanchnicotomy, effect on morphine-induced hyperthermia in rats. 565

Spontaneous frequency, effect of CCI22277 in rabbit hearts, 337

ST-segment elevation, effect of lidoflazine in dogs, 347

Striatal evoked responses, reversible effects of tetanus toxin in rat substantia nigra, 403

Strychnine, effect on reticulata neurone in tetanus toxintreated nigra of circling rat, 403

Substance P, effect on smooth muscle cells and on neuroeffector transmission in the guinea-pig ileum, 279

 , effect on some of the peripheral actions of acetylcholine in the cat, 595

Substantia nigra, rat, effect of tetanus toxin on striatal evoked responses and [3H]-γ-aminobutyric acid release, 403

Subtetanic contractions, effect of adrenaline and terbutaline on influx in guinea-pig isolated soleus muscles, 313 **Sulphasalazine**, effect on the ability of human colonic mucosa to metabolize prostaglandins *in vitro*, 157

—, inhibition of prostaglandin $F_{2\alpha}$ metabolism in piglet lung homogenates, 319

Sympathectomy, production by neonatal treatment with guanethidine in the rat, assessment of effectiveness, 557

Synaptic transmission, γ-aminobutyric acid -mediated in rat substantia nigra, effect of tetanus toxin, 403

-, effect of DS103-282 in spinal neurones in cats, 473

 , selective depression by DS103-282 in spinal neurones in the cat, 473

T

Taipoxin, myotoxic activity in rat soleus muscle, denervated mammalian muscles and innervated avian muscles, 61

Taurine, effect on high potassium- and noradrenalineinduced contraction in rabbit ear artery, 149

Temperature, effect of reduction on responses of pig lung parenchyma to catecholamines, 507

Terbutaline, effect on 5-hydroxytryptamine-mediated behavioural responses, 265

Tetanus toxin, effects of sublethal doses on γ-aminobutyric acid-mediated synaptic transmission and [³H]-γ-aminobutyric acid release in rat substantia nigra, 403

Δ⁹-Tetrahydrocannabinol, effect on whole brain and regional brain levels of endogenous prostaglandins in the rat, 115

Tetrodotoxin, abolition of contractions induced by electrical stimulation in guinea-pig oesophagus preparations, 271

 , blockade of motor response to intramural nerve stimulation and to drugs in rat small intestine, 531

 —, effect of excitatory actions of substance P on smooth muscle cells of guinea-pig ileum, 279

Thalamus, guinea-pig, effect of naloxone on opioid-induced inhibition and facilitation of acetylcholine release, 393 **Theophylline**, effect on histamine output and acid secretion

in rat isolated gastric mucosa, 51
—, effect on responses of guinea-pig trachea to adenosine

and its 5'- and N⁶-substituted analogues, 381

Thiopentone, effect on cerebral cortical responses in the rat, 541

Thrombosis, effect of prostacyclin, 3

Thromboxane analogues, effects in contractile systems of rabbit aorta, dog saphenous vein and guinea-pig trachea, 423

Thromboxane receptor, antagonism in rabbit aorta, dog saphenous vein and guinea-pig trachea smooth muscle, 423

Thromboxane synthetase, 3

Thymidine 5'-diphosphate, aggregation of rat neutrophils, 367

Thymoxamine, inhibition of specific binding of [³H]-dihydroxyergocryptine to intact human platelets, 121

Tolazoline, inhibition of specific binding of [3H]-dihydroergocryptine to intact human platelets, 121

Trachea, guinea-pig, evidence for an A₂/R_a adenosine receptor, 381

—, guinea-pig, thromboxane-sensitive contractile systems, antagonism, 423

—, guinea-pig isolated, blockade by 5,8,11,14, eicosatetraynoic acid and BW 755c of effects of indomethacin on arachidonic acid-induced responses, 527

Tranquillizers, effects on cerebral cortical responses in the rat. 541

Transmitter reactivity, development in small intestine in embryonic rats, 531

Transmitter release, interactions among the effects of normorphine, calcium and magnesium on, 45

Tranylcypromine, effect of pretreatment on effects of lithium on subcellular distribution of 5-hydroxytryptamine in rat brain, 413

 —, plus L-tryptophan, behavioural responses to, effect of β-adrenoceptor agonists in rats, 265

Tremorogenic activity, of enantiomers of some analogues of oxotremorine in intact mice and isolated guinea-pig ileum, 299

Tremorolytic activity, of enantiomers of some analogues of oxotremorine in intact mice and isolated guinea-pig ileum, 299

Trichloroethylene, effect on cerebral cortical responses in the rat, 541

Tritium, effect of α-adrenoceptor agonists and antagonists on stimulation-evoked overflow in rabbit aorta and portal veins, 327

Tryptamine, competition with benzylamine and β -phenylethylamine for uptake in rat lung, 77

[14C]-tryptamine, uptake and metabolism in rat lung and liver, 77

Tryptophan, brain levels, elevation by various doses of salicylate, 211

 , displacement from binding sites on serum proteins in relation to increases in rat brain levels, 211

-, effect of melatonin on brain levels in the rat, 95

Tryptophan pyrrolase, role of inhibition of activity in liver in relation to increases in rat brain tryptophan levels, 211

Twitch responses, of guinea-pig oesophagus to electrical stimulation, inhibition by catecholamines, 271

 to electrical stimulation effect of exogenous noradrenaline, 235

U

U-0521, effect on desensitization by noradrenaline of responses to stimulation of pre- and postsynaptic adrenoceptors, 201

 , effect on responses of pig lung parenchyma to catecholamines, 507

Ulcerative colitis, therapeutic effects of sulphasalazine, 157 Urethane, effect on cerebral cortical responses in the rat, 541

Uridine 5'-diphosphate, aggregation of rat neutrophils, 367
 Uridine 5'-triphosphate, production of aggregation of rat neutrophils, 367

Urine, effect of cyclo-oxygenase inhibition on osmolality in rats, 357

—, parathyroidectomized rat, effect of [Nle-8, Nle-18, Tyr-34] bPTH-(3-34) amide on cyclic adenosine 3',5'monophosphate levels and phosphate and calcium clearance, 259 •

Valproate, effect on onset pressure for tremor and for convulsions in mice, 447

Vas deferens, mouse, desensitization of responses to stimulation of pre-and postsynaptic adrenoceptors, 201

- —, mouse, interactions among the effects of normorphine, calcium and magnesium on transmitter release, 45
- , rat, effect of calcium antagonists and other procedures affecting calcium ion translocation on potassium chloride-induced contractions, 103

Vasodilatation, induction by administration of prostaglandin E₂ in rats anaesthetized with pentobarbitone, 131

Vasodilator nerve stimulation, induction of prolonged responses of canine paw pad by benztropine, 231

Vasopressin, mediation of stimulation of secretion of β lipotropin and β -endorphin with adrenocorticotropin
by renin-angiotensin system from rat anterior pituitary,
579

Vascular wall, interaction with platelets, effect of prostacyclin. 3

Ventricular arrhythmias, effect of lidoflazine in rats, 347 Ventricular fibrillation, effect of lidoflazine in rats, 347

 reduction in rats by naloxone administered before coronary artery ligation, 505

Verapamil, effect on positive inotropic action of ketamine on rat isolated atria, 85

 , effect on potassium chloride-induced contractions in rat vas deferens, 103

W

Water, renal reabsorbtion, effect of prostaglandins in rats,

-, transport in rat renal cortical slices, 373

X

Xylazine, effect on stimulation-evoked tritium overflow from rabbit aorta and portal vein, 327

9-β-D-Xylofuranosyladenosine, effect on guinea-pig trachea, attenuation by dipyridamole, 381

Y

Yohimbine, effect of adrenoceptor agonists and antagonists on spontaneous and evoked membrane activities of longitudinal muscle cells of guinea-pig ileum, 603

- —, effect on inhibitory α-adrenoceptors in guinea-pig isolated ileum, 235
- —, effect on neurogenic twitches and smooth muscles in guinea-pig ileum, 569
- , effect on stimulation-evoked tritium overflow from rabbit aorta and portal vein, 327
- , inhibition of specific binding of [³H]dihydroergocryptine to intact human platelets, 121