SUBJECT INDEX

Δ

- AA-861, effect on phospholipase A₂-induced airway hyperreactivity in rats, 94, 1057
- A-delta fibres, activation by mustard oil in dorsal horn neurones in rats, 94, 180
- Accelerans nerve stimulation, effect on release of betaxolol from heart of anaesthetized dog, 95, 683
- Acenocoumarol, stereoselectivity of activity, role of vitamin K 2,3-epoxide reductase in the rat, 95, 675
- Acetaldehyde, induction of NA release from sympathetic nerve terminals in isolated blood vessels, possible mechanisms, 95, 177
- Acetohydroxamic acid, failure to prevent ethanol-induced gastric damage, 95, 155
- , selective inhibition of arachidonate 5-lipoxygenase, 94, 528
- Acetylcholine, contractile responses to, effect of Bay K 8644 on mouse isolated distal colon, 94, 1198
- , dilator responses in preconstricted arteries of rabbit isolated ear, 93, 564
- —, effect of β -bungarotoxin and related toxins on release from mouse nerve terminals. 94, 839
- , effect of ethanol and pentothenic acid on brain synthesis, 95, 77
- ., effect of pantoyl-GABA on brain concentrations in the
- rat, 95, 1303

 —, effect of potassium channel blocking dendrotoxins on
- release in various species, 93, 215

 —, effects in normal and atherosclerotic conscious rabbits,
- —, effects in normal and atherosclerotic conscious rabbits,
 95, 1075
 —, effects on cardiac output in the anaesthetized rat. 95,
- 986 effects on contractility of human isolated internal
- —, effects on contractility of human isolated internal mammary artery, 95, 531
- —, effects on resistance blood vessels in the rat, role of EDRF, 95, 835
- , effects on smooth muscle function and phosphatidylinositol turnover in guinea-pig taenia caecum, 94, 199
- ---, endothelium-dependent effects in rat aorta, comparison with sodium nitroprusside and cromakalim, 94, 853
- , induction of endothelium-dependent relaxation in rat superior mesenteric arterial bed, effect of phenobarbitone, 94, 977
- , induction of firing in rat cerebral cortical neurones, effect of muscarinic antagonists, 94, 192
- , induction of vasodilatation in the rabbit isolated heart through the release of nitric oxide, 95, 830
- , inhibition of storage by vesamicol in rat and frog muscle, 93, 759
- , investigation of negative inotropic effects in electrically driven chicken and guinea-pig hearts, 93, 357
- , involvement in nicotine-induced contractile response of rabbit isolated iris sphincter, 95, 459

- —, involvement of protein kinase C in presynaptic modulation of release in rabbit hippocampus, 93, 525
- , phospholipase A₂-induced airway hyperreactivity to, in rat trachea, 94, 1057
- , potassium- and neurally-evoked secretion from normal or latent active zones in the frog, influence of 2chloroadenosine, 93, 833
- —, regional differences in the effects in rabbit airway smooth muscle, 94, 389
- release of EDRF from canine femoral muscle, effect on membrane potential of coronary arterial smooth muscle, 93, 515
- release of endothelium derived hyperpolarizing factor and EDRF from rat blood vessels, 95, 1165
- , role of Ca²⁺-activated K⁺ currents in control of release in motor nerve terminals, 95, 1329
- , role of presynaptic cholinoceptors in modulation of release in phrenic nerve-diaphragm preparations of the mouse. 95, 1255.
- , spasmogen action in guinea-pig isolated trachealis, 93, 319
- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- , vasodilator responses in guinea-pig isolated perfused heart are independent of prostacyclin, 95, 379
- [³H]-acetylcholine, effect of MPP+ on release in rabbit caudate nucleus slices, 95, 449
- —, output from rat phrenic nerve, effect of stimulation of β-adrenoceptors, 94, 669
- Acetylcholine receptors, activation by intracellular factors released from muscles of the rat, 94, 968
- Acetylcholine release, from vagus nerve terminals autoregulation through activation of muscarinic receptors in the dog trachea, 93, 636
- , synaptic, role of cyclic AMP in long term regulation in rat superior cervical ganglion, 93, 399
- Acetylenic compounds, affinity for muscarinic receptors in guinea-pig atria or ileum, 94, 947
- Acidosis, modification of transplacental distribution of salycilate in rats, 93, 978
- Action potentials, effect of α-adrenoceptor stimulation in human isolated ventricular heart muscle, 94, 584
- , effect of amoxapine in mammalian isolated cardiac preparations, 94, 1250
- , effect of enantiomers and the racemate of 202-791 in guinea-pig isolated papillary muscles, 95, 1125
- , effect of new aminosteroids in guinea-pig isolated ventricular muscle, 95, 1063
- , effect of prenylamine on duration in guinea-pig, 94, 319
- -, muscle, in phrenic nerve-diaphragm preparation of the rat in vitro, 94, 169
- Active zones, frog, influence of 2-chloroadenosine on ACh secretion, 93, 833
- Acute myocardial ischaemia, effect on ventricular noradrenaline concentrations in naive and morphine-

treated rats, 93, 723

- Acute renal failure, effect on the pharmacokinetics and binding to hepatic cytosol protein in rats, 95, 343
- Adenosine, effect of epithelium on responsiveness of guineapig isolated trachea to, 93, 295
- -, effect on the formation of prostacyclin in the rabbit isolated heart, 94, 721
- -, inhibition of the positive inotropic effect of 3-isobutyl-1-methylxanthine in papillary muscles without effect on cyclic AMP and cyclic GMP, 93, 729
- inhibitory action at frog motor nerve terminals, effect of reduced temperature, 93, 839
- -, pre- and postjunctional actions in guinea-pig caecum circular muscle, 95, 653
- -, production of small contractions and dose dependent relaxations in intact and rubbed guinea-pig trachea in vitro, 93, 909
- -, vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- Adenosine analogues, effects on guinea-pig isolated tracheal smooth muscle, 95, 371
- Adenosine diphosphate, effect of acute lung injury on metabolism in rat perfused lung, 94, 1029
- -, gastric motor responses to, in the atropine-treated rabbit, 94, 1157
- Adenosine monophosphate, effect of acute lung injury on metabolism in rat perfused lung, 94, 1029
- Adenosine 3',5'-monophosphate, cyclic, dimaprit stimulated accumulation in guinea-pig brain, inhibition by zolantidine, 93, 69
- -, cyclic, effect of endothelium-derived relaxing factor and atriopepetin II on levels in pig aortic endothelial cells, 93, 229
- -, cyclic, effect of procaterol on concentrations in smooth muscle cells of dog trachea, 93, 199
- -, cyclic, effect on calcium-evoked prolactin release from electrically permeabilised 7315 cells, 94, 737
- cyclic, lack of effect of adenosine in guinea-pig papillary muscles, 93, 729
- -, cyclic, lack of involvement in smooth muscle relaxant action of BRL 34915, 94, 1189
- -, cyclic, role in β -adrenoceptor and ACTH receptor facilitation of NA release from sympathetic nerves, 95,
- -, cyclic, role in long-term regulation of synaptic ACh release and nicotinic transmission in rat superior cervical ganglion, 93, 399
- -, cyclic, role in the inhibition of coronary vasoconstriction in rats, 94, 573
- -, dibutyryl cyclic, relaxant responses to in femoral arteries, of SHR, 94, 73
- enhancement of intracellular levels, facilitation of 5-HT release from enterochromaffin cells, 95, 923
- -, role in caffeine induced inhibition of contractions and calcium movement in vascular and intestinal smooth muscle, 93, 267
- Adenosine 5'-monophosphate, induction of inhibition of sympathetic neurotransmission in the isolated vas deferens of the rat and the guinea-pig, 94, 961
- P1,P5-di-(adenosine-5')pentaphosphate, agonist and antagonist effects on nonadrenergic, noncholinergic neurogenic excitation in guinea-pig vas deferens, 94, 699
- Adenosine receptor, and adenosine inactivation at the rat

- diaphragm neuromuscular junction, 94, 109
- -, mediation of contraction and relaxation of guinea-pig isolated tracheal smooth muscle, effect of adenosine antagonists, 95, 371
- -, role in inhibition of tritium overflow in rabbit hippocampus, 93, 525
- Adenosine triphosphate, and its analogues, induction of prostacylcin release from human endometrial cells, 95, 1181
- Adenosine triphosphate, effect on the nicotine-induced contraction in the presence of atropine in guinea-pig urinary bladder, 95, 465
- evidence for direct action in guinea-pig trachea, 95,
- -, gastric motor responses to, in the atropine-treated rabbit, 94, 1157
- -, membrane potential responses to application by pressure ejection in the longitudinal muscle of the chicken rectum, 95, 1157
- —, α,β-methylene, agonist and antagonist effects on nonadrenergic, noncholinergic neurogenic excitation in guinea-pig vas deferens, 94, 699
- -, α, β -methylene, blockade of vasopressor and vas deferens responses in pithed rat, 94, 103
- —, α,β -methylene, effects of prolonged exposure on nonadrenergic, non-cholinergic excitatory transmission in chicken rectum, 94, 9
- -, pre- and postjunctional actions in guinea-pig caecum circular muscle, 95, 653
- -, released from spermatozoa role in control of anion and fluid secretion in rat epididymis, 95, 1315
- Adenosine 5'-triphosphate, and its analogues, effect on perfusion pressure of mesenteric bed of the rat, 95, 637
- Adenosine triphosphate analogues, activation of conductance in isolated sensory neurones of the rat, pharmacological properties, 95, 1057
- Adenosine triphosphate receptors, in rat sensory neurones, structure-function relationship for ligands, 95, 1057
- Adenosine triphosphatase, sodium, potassium, role of inhibition on responses of cat cerebral and femoral arteries,
- -, sodium, potassium, site of interactions of progesterone derivatives with cardiac glycosides, 93, 453
- Adenylate cyclase, forskolin-stimulated activity in calf hippocampus, effect of centrally acting hypotensive agents with affinity for 5-HT_{1A} binding sites, 95, 975
- -, histamine stimulated in guinea-pig brain, inhibition by zolantidine, 93, 69
- -, reduced coupling to β -adrenoceptors from spontaneously hypersensitive rats, 94, 73
- stimulation with forskolin facilitation of 5-HT release from enterochomaffin cells, 95, 923
- Adrenal chromaffin cells, bovine, effects of neosurugatoxin on evoked catecholamine secretion, 93, 275
- Adrenal glands, guinea-pig, voltage-independent catecholamine release mediation by activation of muscarinic receptors, 93, 101
- Adrenal medulla, cat, sodium-dependent inhibition by PN200-110 enantiomers of catecholamine release, 95, 9
- dog, inhibitory regulation by co-released peptides of catecholamine secretion, 93, 383
- Adrenalectomy, effect on inhibitory effect of phentolamine on pressor response to Bay K 8644, 93, 994

- -, effect on Paf toxicity in mice, 93, 132
- Adrenaline, antihaemophilic effect in sheep, in vivo assay system, 94, 279
- , effects, contribution of β-adrenoceptors as assessed with (-)-atenolol in human heart, 95, 55
- , effects of pretreatment with propranolol in rat rostral ventrolateral medulla, 94, 609
- —, effects on the guinea-pig taenia caecum, 94, 557
- interactions with α₁-adrenoceptors in intact BC₃H₁ cells, 95, 1133
- Adrenergic nerve stimulation, contractile response to, potentiation by TXB, in low concentrations, 93, 367
- Adrenergic transmitter, effect of calcium channel blockers on release in rat isolated kidney, 94, 355
- β-Adrenoceptor adenylate cyclase system, identification of impaired component in SHR arteries, 95, 241
- Adrenoceptor agonists, use in studies to characterize a putative adrenoceptor in guinea-pig ileum, 95, 723
- α-Adrenoceptor agonists, induction of changes in cardiac output and organ vascular resistances in pithed rats, effect of enalapril, 94, 449
- , mediation of pressor responses in pithed rat, interactions with angiotensin II, 95, 1229
- modification of release of [3H]-NA from sympathetic nerves to bovine mesenteric lymphatic vessels, 94, 823
- , pressor responses to, effects of BRL 34915 and nifedipine in SH rats, 93, 541
- β₂-Adrenoceptor agonists, effect on smooth muscle cells of dog trachea, 93, 199
- Adrenoceptor antagonists, use in studies to characterize a putative adrenoceptor in guinea-pig ileum, 95, 723
- α-Adrenoceptor antagonists, modification of release of [³H]-NA from sympathetic nerves to bovine mesenteric lymphatic vessels, 94, 823
- α₁-Adrenoceptor antagonists, effect on electrical and mechanical properties of capsular smooth muscle of rabbit prostate, 93, 702
- , effect on experimental cardiac arrhythmias in dogs, 95, 1242
- β-Adrenoceptor antagonists, accumulation in and release from cardiac sympathetic nerve endings of the anaesthetized dog, 95, 683
- , effect on perfusion of ischaemic myocardium in anaesthetized pigs, 95, 361
- —, selective regulation of β_1 and β_2 -adrenoceptors in human heart, **94**, 685
- α₁-Adrenoceptor binding sites, stereospecificity of LY253352 in canine brain and human prostate, 95, 139
- α-Adrenoceptor blockade, effect on natriuretic response to a modest saline load in anaesthetized rats, 93, 446
- α₂-Adrenoceptor blockade, effect on the facilitatory effects of angiotensin II, isoprenaline and ACTH in sympathetic nerves, 95, 993
- β-Adrenoceptor blockade, induced by BW A575C in anaesthetized dog, 93, 165
- Adrenoceptors, central, involvement in pressor response to electrical stimulation of rostral ventrolateral medulla in rats, 94, 609
- putative, functioning to inhibit muscle tension development in guinea-pig ileum, characterization using phenylethylamines, 95, 723
- a-Adrenoceptors, activation in single cells freshly dissociated from rabbit portal vein, mechanism of action,

- 94, 475
- , activities of octopamine and synephrine stereoisomers compared with those of NA in rabbit saphenous vein and rat aorta and anococcygeus, 93, 417
- , in rabbit isolated saphenous vein, examination of pharmacological characteristics using NA and other agonists and antagonists, 95, 485
- , inhibitory effects of agonists is mediated by calcium activated opening of potassium channels, 94, 557
- , interactions with agonists and antagonists in rat aorta, modulatory role of vascular endothelium, 95, 619
- , involvement in myometrial responses in pro-oestral rat, 93, 185
- , mediation of contractions in femoral artery of SH rats, effect of cholera toxin and forskolin and dibutyryl cyclic AMP in SH rats, 95, 241
- , on isolated blood vessels from the rabbit, characteristics in relation to value of agonists and antagonists,
 95, 473
- , prejunctional, modulation of NA release evoked by a physiological irregular sympathetic discharge pattern, 95, 1101
- , role in the release of [³H]-NA by field stimulation, 94, 823
- α₁-Adrenoceptors, complex interactions with agonists in intact cells, 95, 1133
- , postjunctional, inactivation in rabbit saphenous vein using phenoxybenzamine, 95, 501
- , role in catecholamine-induced hyperglycaemia, lipolysis and insulin secretion in conscious fasted rabbits, 94, 299
- α₂-Adrenoceptors, lack of agonist activity of phentolamine in anaesthetized dogs, 93, 337
- CNS, stimulation by α-methyldopa produces mydriasis in the rat. 94, 834
- —, effect of blockade on the actions of tyrosine in man, 95, 405
- , inhibition of 5-HT release from guinea-pig ileum, 95, 923
- —, mediation of contraction of rabbit isolated ear vein, 94, 1085
- , mediation of inhibition of histamine release from rat cerebral cortical slices, 95, 1213
- , postjunctional, attempt at pharmacological isolation in rabbit saphenous vein using phenoxybenzamine, 95, 501
- responsiveness to clonidine and yohimbine microinfused into locus coeruleus is restored by oral administration of phosphatidylserine, 95, 1278
- , role in catecholamine-induced hyperglycaemia, lipolysis and insulin secretion in conscious fasted rabbits, 94, 299
- β-Adrenoceptors, characterization of subtypes in rat liver by radioligand binding assay, 93, 817
- , facilitation of NA release from sympathetic nerves, 95, 993
- , human atrium and ventricle, contribution to the effects of NA and Ad as assessed by (-)-atenolol, 95, 55
- , human cardiac and lymphocyte, selective regulation by chronic β-adrenoceptor antonist treatment, 94, 685
- mediation of changes of action potential and force of contraction in human isolated ventricular heart muscle, 94, 584

- —, mediation of mechanisms in the cardiovascular responses to α-adrenoceptor antagonism in conscious, unrestrained Long Evans and Brattleboro rats, 93, 9
- , prejunctional, facilitation of NA release from sympathetic nerves of rat anococcygeus muscle. 95, 385
- , prejunctional, modulation of NA release evoked by physiological irregular sympathetic discharge pattern, 95, 1101
- , reduced coupling to adenylate cyclase in femoral arteries from SH rats, 94, 73
- , role in the coronary vasodilator properties of pindolol in rats, 94, 573
- , role of stimulatory GTP-binding protein in reduction of coupling in femoral artery of SH rats, 95, 241
- , stimulation enhances transmitter output from the rat phrenic nerve, 94, 669
- β₂-Adrenoceptors, mediation of bronchoconstriction, a major determinant of Paf-induced death, 93, 132
- , stimulation inhibits histamine-stimulated inositol hydrolysis in bovine tracheal smooth muscle, 95, 1204
- Adrenocorticotrophic hormone receptors, facilitation of NA release from sympathetic nerves, 95, 993
- Andrenocorticotrophin, secretion in rats, effects of neonatal capsaicin, 94, 647
- AFDX-116, affinity for radiobinding assays using [3H]-N-methylscopolamine and [3H]-oxotremorine, 93, 437
- , effect on actions of McN-A-343 in conscious dogs, 94, 566
- Afferent nerve terminals, involvement in stimulation of ion transport by bradykinin in rat isolated colon, 94, 47
- Aging, effect on antihypertensive action of aspirin in rats, 94, 755
- , effect on behavioural and electrocortical power spectrum effects of clonidine and yohimbine in rats, 95, 1278
- -- , effect on behavioural responses to D₁- and D₂-receptor agonists in rats, 95, 335
- , effect on decrease in histamine-induced vasodilatation, role of reduction of cyclic GMP formation, 95, 1015
- --- , effect on induction of athersclerosis in rabbits by cholesterol, 94, 335
- Aggregatory agents, effects of AH6809 in human platelets, 94, 745

AH5183, see Vesamicol

- AH6809, effect on anti-aggregatory and aggregatory actions of agents in human platelets in whole blood, 94, 745
- AHR-602, effects on smooth muscle function and phosphatidylinositol turnover in guinea-pig taenia caecum, 94, 199
- Airway hyperreactivity, bacterial endotoxin-induced effect of anterior hypothalmic lesions and sham operations in guinea-pigs, 94, 908
- , induction in guinea-pigs by immediate anaphylactic bronchoconstriction, 94, 663
- —, to cooling and ACh induced by phospholipase A₂ in rat trachea, 94, 1057
- Airway infiltration, ovalbumin-induced, effect of nedocromil sodium, 94, 6
- Airway muscle tone, regulation by PGE₂ in guinea-pig trachea, 95, 300
- Airway resistance, effect of histamine in anaesthetized guinea-pigs, inhibitory effect of sodium cromoglycate,

- 94, 515
- -, effect of indomethacin in guinea-pig, 94, 522
- Airway smooth muscle, guinea-pig, effect of inhibition of sodium influx attenuates response to specific antigen challenge, 93, 884
- , guinea-pig trachealis, effects of leukotriene D₄ on mechanical and electrical properties, 94, 729
- , rabbit, regional differences in mechanical properties,
 94. 389
- Airway tissue, guinea-pig, contractile activities of lipoxin A₄ and lipoxin B₄. 95, 562
- Airways, guinea-pig, effect of ozone on responsiveness of upper and lower airways to histamine, 94, 938
- , guinea-pig, effect of WEB 2086 on microvascular leakage, 94, 164
- -, guinea-pig, modulation of cholinergic neurotransmission by neuropeptide Y, 93, 672
- Ajmaline, antiarrhythmic actions against ischaemia and subsequent reperfusion-induced arrhythmias in anaesthetized rats, 93, 827
- Alpha motoneurone discharge, effect of dantrolene sodium in soleus muscle of decerbrate rat, 93, 257
- Alphaxalone, effect on nodal membrane in voltage-clamped myelinated nerve fibre, 94, 635
- , potentiation and mimicking GABA-induced contractile responses in the guinea-pig isolated ileum, 95, 33
- Alkalosis, modification of transplacental distribution of salicylate in rats, 93, 978
- Alkylxanthines, potency as antagonists of the adenosine receptor at the rat diaphram neuromuscular junction, 94, 109
- Allergic reactions, immediate, release of prostaglandin D₂ from human skin in vivo and in vitro, 94, 773
- Alloxan, mechanism of interaction with glucose when competing with sugar binding site of glucokinase from pancreatic B-cells or liver, 95, 851
- Alveolar surfactant, control in rats at rest and during prolonged hyperpnoea, 93, 473
- Alzheimer's disease, possible antidementia actions of pantoyl-GABA, 95, 1303
- —, possible use of THA in treatment, 94, 1017
- Amiloride, effect on airway response to specific antigen challenge in guinea-pig, 93, 884
- , effect on GABA-activated chloride current in frog isolated sensory neurones, 93, 679
- , effect on Na/Ca exchange and tension development in guinea-pig aortic strips, 93, 601
- Amiloride analogues, production of endothelium-dependent relaxation in the canine coronary artery, role of Na⁺/Ca⁺ exchange, 95, 67
- Amino acid neurotransmitters, inhibition of release by 2,6diisopropylphenol in rat olfactory cortex slice, 95, 939
- Amino acid receptors, bimolecular action of agonists and antagonists on mouse neocortical cells, 95, 805
- Amino acids, effect of quinolinic acid on release from the rat cerebral cortex in vitro and in vivo, 93, 868
- —, pharmacology in neocortical slices, 95, 805
- α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic quantitative study of actions in rat hippocampal slices, 95, 291
- 2-Amino-5-phosphonoheptanoic acid, effect on aspartate and glutamate release from rat hippocampal slices, 93, 863
- 2-Amino-5-phosphonovaleric acid, effect on aspartate and

- glutamate release from rat hippocampal slices, 93, 863
- —, effects on responses evoked by excitatory amino acid agonists in vitro in mouse neocortex, 93, 693
- , effect on responses of guinea-pig myenteric plexus to glutamic acid, 95, 1271
- —, quantitative study of actions in rat hippocampal slices,
 95, 291
- 4-Aminobutyrate-2-oxo-glutarate amino-transferase, effect of stress on activity in rat corpus striatum and cerebral cortex, 93, 483
- γ-Aminobutyric acid, activation of chloride currents, effect of diuretics in frog isolated sensory neurones, 93, 679
- —, central inhibition of the release of vasopressin by carbachol in the rat, 93, 349
- , depolarization-induced release from rat cerebral cortex, inhibitory effect of 1,2,3,4-tetrahydro-9- aminoacridine, 94, 1017
- , depolarization of dorsal root in the frog spinal cord, effect of bicuculline, 94, 1051
- -, effect on guinea-pig intestinal peristalsis, 93, 715
- , induction of chloride current in Aplysia neurones, kinetic and pharmacological properties, 95, 883
- , induction of chloride current in isolated frog sensory neurones, effect of temperature change, 95, 753
- —, interaction with Ro 15-4513 in mice, 93, 210
- , responses to, effects of non-sedative anxiolytic drugs in mouse neurones in cell culture, 95, 109
- γ-Aminobutyric acid_a binding sites, effects of chronic oral administration of desmethylimipramine and zimeldine in rat cortex, 93, 331
- γ-Aminobutyric acid inhibition, effect of cocaine in the rat, 95, 1117
- γ-Aminobutyric acid receptor agonists, actions on muscle membrane conductance in Schistocerca gregaria, 95, 713
- γ-Aminobutyric acid receptor antagonists, actions on muscle membrane conductance in Schistocerca gregaria, 95, 713
- γ-Aminobutyric acid receptors, agonist action of ZAPA on the Ascaris muscle cell, 95, 3
- —, effect of activation on potassium conductance in rat lateral parabrachial neuones, 95, 896
- γ-Aminobutyric acid_A receptors, mediation of contractile responses in guinea-pig isolated ileum, potentiation by alfaxalone, 95, 33
- mediation of delayed increase in intragastric pressure to stimulation of vagal afferent fibres in cats. 95, 163
- modulation by depressant receptors and pregnane steroids, 94, 1257
- γ-Aminobutyric acid systems, changes in central function following acute and repeated stress. 93, 473
- (Z)-3-[(Aminoiminomethyl)thio]-2-propenoic acid hydrochloride, a potent agonist at GABA-receptors on the Ascaris muscle cell, 95, 3
- Aminophylline, effect on adenosine receptor-mediated contraction and relaxation of guinea-pig isolated tracheal smooth muscle. 95, 371
- 3-Aminopropane sulphonic acid, effect on muscle membrane conductance in locust, 95, 713
- 4-Aminopyridine, effect on transient outward current of single *Helix* central neurones, 95, 526
- —, inhibitory effect on K⁺-evoked release of GABA in rats, 94, 1017

- , reversal of vesamicol-induced neuromuscular block,
 93, 759
- Aminosteroids, electrical and mechanical effects on guineapig isolated ventricular muscle, 95, 1063
- Amlodipine, action on adrenergically regulated sodium handling by the kidney in normotensive and hypertensive rats, 93, 561
- —, renal actions in normotensive and SH rats, 94, 311
- Amoxapine, inhibitory actions on electrophysiological properties of mammalian isolated cardiac preparations, 94, 1250
- D-Amphetamine, effect on Paf lethality in mice, 93, 132
- Anaesthesia, effect on opiod-induced antinociceptive effects in anaesthetized and conscious animals, 95, 275
- —, effect on synaptic transmission in rat olfactory cortex slice, 95, 939
- -, general, effects of Bay K 8644 in mice, 94, 413
- , interactions with ionic channels of nodal membrane in voltage-clamped myelinated nerve fibre, 94, 635
- , local, action of cocaine investigated in CAl region of rat hippocampal slice, 95, 1117
- , stimulation of ACTH, effect of neonatal capsaicin in rats. 94, 647
- , volatile, effect on stimulus-secretion coupling in bovine adrenal chromaffin cells, 95, 209
- Analgesia, mode of action of opiates in rats, 94, 185
- Anaphylactic bronchoconstriction, effect of novel acetohydroxamic acids in guinea-pigs, 94, 540
- Anaphylaxis, effect of WEB 2086 in guinea-pig airways, 94, 164
- , immediate-type bronchial, induction of airway hyperreactivity in anaesthetized guinea-pigs, 94, 663
- , induction by ovalbumin in guinea-pig, effect of Ro 19-3704, 94, 27
- , role of leukotrienes in guinea-pig, cardioprotective effects of CGS 8515, 95, 1322
- Angiotensin, metabolism in rat lung, effect of monocrotaline-induced injury, 94, 1167
- Angiotensin I, effect of captopril on metabolism to angiotensin II in guinea-pig lungs and bovine aortic endothelial cells, 95, 973
- , metabolism in endothelium cells, effect of monocrotaline-induced lung vascular injury in the rat, 94, 1175
- Angiotensin I and II, production of non-sustained contractile responses and enhanced S-I effluxes of radioactivity from rat anococcygeus muscle, 95, 385
- Angiotensin II, contractile responses of rabbit aorta rings in the presence of cromakalin and isradipine, 95, 741
- , effects in normal and atherosclerotic conscious rabbits,
 95, 1075
- , effect of captopril on conversion from angiotensin I in guinea-pig lung and bovine aortic endothelial cells, 95, 783
- , facilitation of NA release from sympathetic nerves, 95, 993
- , induction of contractions in isolated dog sphincter pupillae, involvement of prostaglandins, 95, 544
- , influence on resting blood pressure and on sympathetic nerve-mediated pressor responses in the pithed rat, 95, 1220
- , interactions with α-adrenoceptor agonists mediating pressor responses in the pithed rat, 95, 1229

- , pressor responses to, effect of BRL 34915 and nifedipine, 93, 541
- reversal of the effects of enalapril on cardiac output and organ vascular resistances induced by αadrenoceptor agonists, 94, 449
- Angiotensin converting enzyme, activity in guinea-pig in guinea-pig lungs and bovine aortic endothelial cells, effect of captopril, 95, 783
- , role in diastolic blood pressure and sympathetic nervemediated pressor responses in pithed rat, 95, 1220
- Angiotensin converting enzyme inhibitor, cardiac and renovascular effects in anaesthetized dog, 93, 165
- —, effect on inhibition of catecholamine output by low frequency stimulation in canine adrenal medulla, 93, 383
- Angiotensin receptors, effect on NA release from sympathetic nerves in rat anococcygeus muscle, 95, 385
- Anions, inhibition by chloride channel blockers of secretion in cultured epididymal epithelium and intact epididymis of rats, 94, 155
- Anipamil, calcium antagonists and binding properties in isolated rat hearts, 94, 253
- Anococcygeus muscle, rat, activities of octopamine and synephrine stereoisomers on α-adrenoceptors, 93, 417
- —, rat, inhibitory effect of somatostatin peptides in vitro, 94, 87
- rat, responses to NA and field stimulation, potentiating effects of PI-OH, cocaine, despramine and nomifensine, 94, 19
- Anorexia, induction by McPP and TFMPP in rats, 94, 137

 —, quipazine-induced in rat by activation of 5-HT₂ receptors, 95, 598
- Anterior hypothalamus, effect of lesions and shamoperations on bacterial endotoxin-induced non-specific airway hyperreactivity in vivo and in vitro in guineapigs, 94, 908
- Anthelmintic drugs, action of ZAPA on GABA-receptors on the Ascaris muscle cell, 95, 3
- Anthracene-9-carboxylate, effect on anion secretion in rat epididymis, 94, 155
- Anti-aggregatory agents, effects of AH6809 in human platelets, 94, 745
- Anti-anginal compounds, effect on myocardial conduction in the anaesthetized dog, 93, 375
- Antiarrhythmic agents, blockade of sodium channels during opening and slow inactivation in guinea-pig papillary muscle, 93, 311
- Anticholinesterase inhibitors, effect on nicotinic AChinduced inward currents in frog isolated sympathetic neurones, 94, 620
- Anticholinesterases, induction of repetitive activity of the phrenic nerve-diaphragm preparation of the rat in vitro, 94, 169
- Antidementia drug, action of pantoyl-GABA in the rat, 95, 1303
- Antidepressants, effect of chronic oral administration on rat cortical GABA_B binding sites, 93, 331
- Antidiuretic hormone antagonist, effect on antiduretic action of SCH 23390 in rats, 93, 151
- Antigen, induction of bronchoconstriction in guinea-pig, effect of Ro 19-3704, 94, 27
- , induction of contraction in guinea-pig isolated trachea, studies with novel inhibitors and antagonists of arachi-

- donic acid metabolites, 95, 309
- Antigen challenge, effect on release of arachidonic acid metabolites and histamine from sensitized guinea-pig lung, 93, 751
- response of guinea-pig airway smooth muscle, effect of inhibition of sodium influx, 93, 884
- Anti-inflammatory drugs, effect on eicosanoid formation in a chronic model of inflammatory bowel disease in the rat. 94, 65
- , inhibition of contraction induced by epidermal growth factor-urogastrone in longitudinal smooth muscle strips from guinea-pig stomach, 95, 821
- Antinociceptive activity, differential sensitivity of opioid agonists and partial agonists to tests, 95, 578
- —, induction after i.v. and i.c.v. administration of κopioids but not after intrathecal administration, 93,
 553
- , effects of BW443C compared with classical opiates, peripheral versus central actions in the mouse, 93, 85
- , opioid-induced in anaesthetized and conscious animals, evaluation, 95, 275
- , production by [D-Arg²]-dermorphin tetrapeptide analogues and morphine in rats, 95, 15
- Antipyrine, effect of clonidine on extraction-limited elimination in rodents, 94, 97
- Anti-rheumatic drugs, effect on granuloma-induced cartilage degration, 93, 627
- Anxiolytic activity, of GR38032F in five animal models, 93, 985
- Anxiolytic drugs, effects on responses to GABA and on diazepam-induced enhancement of these responses on mouse neurones in cell culture, 95, 109
- Aorta, rabbit, comparison of the anti-vasoconstrictor effects of cromakalim and isradipine, 95, 741
- , rabbit, effects of chlorpromazine on sympathetic neuroeffector transmission, 93, 23
- , rabbit, effects of caffeine on contractions and calcium movement, 93, 267
- -- , rabbit, effects of procaine on contraction and calcium movement, 94, 798
- , rabbit, impairment of endothelium-dependent relaxation as an early marker for atherosclerosis, 94, 335
- -, rabbit, relaxant effect of BRL 34915, 94, 1198
- —, rabbit, relaxant effects of EDRF, 95, 630
- , rabbit isolated, effect of methylflavonolamine hydrochloride on contractions induced by NA, calcium and potassium, 94, 1184
- -, rabbit perfused, platelet inhibition by EDRF, 95, 1308
- rat, activities of octopamine and synephrine stereoisomers on α-adrenoceptors, 93, 417
- , rat, comparison of the effects of sodium nitroprusside and cromakalin with endothelium-dependent effects of ACh, 94, 853
- , rat, effects of ryanodine on tension development, 95, 605
- —, rat, modulatory effects of vascular endothelium in the interaction of agonists and antagonists with αadrenoceptors, 95, 619
- rat isolated, comparison of effects of calcium entry blockers against contractions, 95, 145
- Aortic endothelial cells, bovine, effect of captopril on bradykinin-induced release of prostacyclin, 95, 783
- Aortic rings, rat, diabetes-induced impairment of

- endothelium-dependent relaxation, 94, 463
- Apamin, cardiovascular effects in rats and rabbits, 93, 121
- Aplysia neuones, kinetic and pharmacological properties of GABA-induced chloride current, 95, 883
- Apomorphine, administration in ventral tegmental area, production of behavioural and electrocortical sleep, 95, 860
- Arachidonate 5-lipoxygenase, selective inhibition by novel acetohydroxamic acids, 94, 528
- Arachidonic acid, analysis of the stimulative effect of thapsigargin on metabolism in rat peritoneal macrophages, 94, 917
- , effect on spontaneous sensitization of rabbit aorta to des-Arg⁹-bradykinin, 93, 969
- production of small relaxations and contractions in intact and rubbed guinea-pig trachea, in vitro, 93, 909
- Arachidonic acid metabolites, effect of antiinflammatory drugs on formation in a chronic model of inflammatory bowel disease, 94, 65
- release from sensitized guinea-pig lung following antigen challenge, 93, 751
- [D-Arg²]-dermorphin tetrapeptide analogues, production of antinociception and physical dependence in rats, 95, 15
- Arginine-vasopressin, foctal release, effect of M320 in parturient rats, 95, 777
- , pressor responses in rat isolated superior mesenteric bed of the rat, 95, 646
- Argon, general anaesthetic potency, effect of Bay K 8644 in mice. 94, 413
- Arousal, effect of idazoxan or tyrosine in man, 95, 405
- Arrhythmias, digitalis- and reoxygenation-induced, mechanism of action of propafenone and mexiletine in guinea-pig heart, 95, 1039
- , experimental, effect of UK-52-46 and atenolol alone and in combination in dogs, 95, 1241
- , induced in guinea-pig heart by new aminosteroids, 95, 1063
- , ischaemia- and reperfusion-induced, antiarrhythmic actions of ajmaline in rats, 93, 827
- , mechanism of action of calcium antagonists in early myocardial ischaemia, 94, 1275
- , ouabain-induced, effect of some non-steroidal antiinflammatory drugs, 93, 747
- Arterial blood flow, effects of VIP and peptide histidine isoleucine in dog spleen, 95, 664
- Arterial blood pressure, mean, involvement of central adrenoceptors in response to electrical stimulation of rostral ventro-lateral medulla in rats, 94, 609
- Arteries, rabbit, mechanisms of action of lipoxygenase and cytochrome P-450-mono-oxygenase inhibitors in blocking endothelium-dependent vasodilatation, 93, 569
- , rat tail, palytoxin-induced contraction and release of endogenous NA, 95, 183
- Arterioles, rabbit skeletal muscle, calcitonin gene-related peptide desensitization to substance P in vivo, 95, 673
- Artificial respiratory volume, effect on cardiovascular response to α_1 and α_2 -adrenoceptor agonist in air ventilated pithed rat, 93, 781
- Arthritis, immune, relationship between leucocyte infiltration and cartilage proteoglycan loss in the rabbit, 95, 169
- Aspartate, endogenous, effect of excitatory amino acid

- antagonists on release from rat hippocampal slices, 93, 863
- , induction of contractions in guinea-pig myenteric plexus, 95, 1271
- Aspartyl-glutamate, induction of contractions in guinea-pig myenteric plexus, 95, 1271
- Aspirin, effect on gastric mucosal release of eicosanoids in rats under basal conditions and after ethanol challenge, 93, 937
- , effect on ouabain-induced arrhythmias in guinea-pigs, 93, 747
- Aspirin intolerance, useful clinical treatment in some but not all patients with sodium cromoglycate, 94, 515
- Asthma, effects of sensory neuropeptides on microvascular permeability in guinea-pig, 95, 1109
- -, possible clinical use of cromakalim, 95, 763
- Ascaris muscle cells, potent agonist action of ZAPA at GABA receptors, 95, 3
- Atenolol, assessment of contribution of β_1 and β_2 -adrenoceptors in human heart to the effects of NA and Ad, 95, 55
- —, effect of Paf lethality in mice, 93, 132
- , effect on phorbol ester-induced coronary vasoconstriction in the isolated perfused heart of the rat, 94, 573
- , effects alone and in combination with UK-52046 on experimental arrhythmias in dogs, 95, 1241
- Atherosclerosis, impairment of endothelium-dependent relaxation, a marker in rabbits, 94, 335
- --- vasoconstrictor and vasodilator effects of various agents in conscious rabbit, 95, 1075
- Atria, guinea-pig, action of methoctramine and himbacine at muscarinic receptors, 95, 1031
- , guinea-pig, affinity of acetylenic analogues of 4-DAMP methobromide for muscarinic receptors, 94, 947
- —, human, contribution of β_1 and β_2 -adrenoceptors to effects of NA and Ad as assessed with atenolol, 95, 55
- , rat, effect of dietary myo-inositol in streptozotocindiabetic rats, 93, 3
- rat, positive inotropic effects induced by carbachol, association with phosphatidylinositol breakdown, 94, 347
- Atrial muscle, canine, negative inotropic effects, 95, 393
- Atrial myocardium, rat, protection against electrical, mechanical and structural aspects of injury caused by simulated ischaemia, 94, 1207
- Atrial natriuretic peptides, induction of relaxation, 93, 229
- , regional haemodynamic effects in conscious, unrestrained, Long Evans and Brattleboro rats, 95, 197
- Atriopeptin II, effect on cyclic GMP levels in pig aortic endothelial cells, 93, 229
- Atropine, blockade of nicotine-induced contraction in rabbit isolated iris sphincter, 95, 459
- , effect on amount and specific activity of alveolar surfactants lavaged from lungs of resting and hyperpnoeic rats, 93, 473
- , effect on contractile response to intramural nerve stimulation, 93, 684
- , effect on neurotensin-induced ileal sodium transport in dogs, 94, 121
- , effect on phospholipase A₂-induced airway hyperreactivity in rats, 94, 1057
- -, effect on veratridine-induced K+-efflux, membrane

- depolarization and amino acid neurotransmitter release in rat brain synaptosomes, 94, 871
- , inhibition of contractile response to electrical stimulation of Remak's nerve in chicken rectum, 95, 844
- , lack of effect on inhibitory effect of McN-A-343 on the contractile response of ilium to electrical stimulation, 94, 228
- Atropine-resistant saliva secretion, abolition of, by tachykinin antagonists in ferret, 94, 707
- Audiogenic seizures, anticonvulsant effects of some calcium entry blockers in DBA/2 mice, 93, 247
- Auranofin, inhibition of contraction induced by epidermal growth factor-urogastrone in smooth muscle strips of guinea-pig stomach, 95, 821
- Automaticity, abnormal, supression by somatostatin in dog Purkinje fibres, 93, 192
- , barium or strophanthidin-induced, physiological effects of propafenone and mexiletine in sheep cardiac Purkinje fibres, 95, 1039
- Autoradiography, localization of β-adrenoceptors on human internal mammary artery and saphenous vein, 95, 225
- **AZ-DF 265**, potent and stereoselective effects on pancreatic β -cells of the mouse, **93**, 61
- Azelastine, effect on phospholipase A₂-induced hyperreactivity in rat, **94**, 1057

B

- B4148, attenuation of arterial blood pressure fall in endotoxin shock in rats, 94, 284
- Baclofen, actions on components of the Ca-current in rat and mouse DRG neurones in culture, 94, 235
- , effect on muscle membrane conductance in locust, 95, 713
- --- , effect on voltage-sensitive calcium channel currents in cultured dorsal root ganglion neurones, 94, 653
- Bacterial endotoxin, induction of airway hyperreactivity in guinea-pigs, effect of hypothalamic lesions and sham operations, 94, 908
- Barbiturates, modulation of GABA_A-receptor in preparation of porcine cerebral cortex, 94, 12157
- Basal tone, effect of magnesium and potassium concentrations in canine isolated coronary artery, 94, 325
- Basilar artery, guinea-pig, effects of leukotriene D₄ on mechanical properties, 93, 591
- —, rat, effect of viprostol, PGE₂ and nitroglycerin, 93, 613
- Bay K 8644, action on depolarization-induced release of [3H]-NA in naive or dependent rats, 93, 535
- —, anticonvulsant effects in DBA/2 mice, 93, 247
- , blockade of inotropic effects by cytochalsin-B and phloretin, in rabbits, 94, 552
- , differential antagonism of vasodilator effects of nifedipine, diltiazem, nicorandil and nitroglycerin in dog femoral circulation, 93, 146
- -- , effects on antagonist inhibition of beating of primary cultures of chick heart cells, 95, 771
- —, effects on general anaesthetic potency in mice, 94, 413
- —, effects on mouse isolated distal colon, 94, 1198
- , effects on voltage-sensitive calcium channel currents in cultured dorsal root ganglion neurones, 94, 653
- -, impairment of Ca release from mammalian ventricular

- sarcoplasmic reticulum, 94, 291
- , pressor responses to, involvement of catecholamine release and calcium channel activation, 93, 994
- Behavioural responses, 5-HT-mediated, effect of senktide in rats and mice, 94, 285
- to dopamine receptor agonists in young compared with aged rats, 95, 335
- Bencyclan, protective effects against severe progressive hypoxia in the rat, 95, 903
- Benoxaprofen, activation of membrane-associated oxidative metabolism in human polymorphonuclear leucocytes, 93, 289
- Benzamides, substituted, interactions with brain benzodiazepine binding sites in vitro, 94, 1234
- Benzilylcholine mustard, effect on carbachol-induced contraction in bovine trachealis muscle, 93, 918
- Benzodiazepine binding sites, interactions with substituted benzamides in vitro, 94, 1234
- Benzodiazepine receptor, effect of non-sedative anxiolytic drugs on mouse neurones in cell culture, 95, 109
- Benzoic acid derivative, potent and stereoselective effects on pancreatic β -cells of the mouse, 93, 61
- Benztropine, effect on veratridine-induced efflux of K⁺, membrane depolarization and amino acid neurotransmitter release in rat brain synaptosomes. 94, 871
- Bepridil, effect on phospholipase A₂-induced hyperreactivity in rats, 94, 1057
- , effect on ventricular depolarization and repolarization of rabbit isolated hearts, possible proarrhythmic properties, 93, 775
- , protective effects against severe progressive hypoxia in the rat, 95, 903
- Betaxolol, no release from dog heart during sympathetic nerve stimulation, 95, 683
- Bicarbonate, effect of chloride channel blockers on secretion in rat epididymis, 94, 155
- Bicuculline, antagonism of depolarizing effects of taurine on primary afferent terminal of frog spinal cord, 94, 1051
- , antagonism of GABA-induced responses in locust muscle membrane, 95, 713
- —, effect on guinea-pig intestinal peristalsis, 93, 715
- -, interactions with Ro 15-4513 in mice, 93, 210
- Biliary excretion, of dibromosulphophthalein in rats with acute renal failure, 95, 343
- Binding assays, examination of experimental design, 94, 693 Binding, of ouabain, dissociated from inotropic effects by diffusion characteristics in guinea-pig myocardium, 95,
- Biochemical assays, comparison of effects of sulmazole with those of BW A746C in various species in vivo, 93, 387
- **Bisprolol**, improvement of perfusion of ischaemic myocardium in anaesthetized pigs, **95**, 361
- Blood, effect of vasopressin, deamino-(p-arginine⁸)-vasopressin and adrenaline, in vivo assay in sheep, 94, 279
- Blood aqueous barrier, role of substance P in breakdown in rabbit eye, 95, 259
- **Blood-brain barrier,** crossing by senktide in rats and mice, 94, 285
- Blood flow, cerebral, effect of slow channel inhibitors in the rat, 95, 903
- —, effects of apamin and BRL 34915 in rats and rabbits, 93, 121
- -, effects of calcitonin gene-related peptide in skeletal

- muscle arterioles in vivo, 95, 673
- , effects of endothelium-dependent vasodilators in the anaesthetized rat, 95, 986
- , endotoxin-induced reduction in gastric mucosa, effect of indomethacin, 93, 925
- , myocardial, effect of nisoldipine in conscious pigs, 94, 219
- myocardial, effect of pentoxifylline in canine model of acute myocardial infarction, 93, 587
- —, neurotensin-induced changes in dogs, effects of atropine and tetrodotoxin, 94, 121
- -- , role of endothelin in physiological control in rabbit skin, 95, 1005
- , tissue, effect of artificial respiratory volume on response to phenylephrine or xylazine, 93, 781

Blood gases, effect of artificial respiratory volume in airventilated pithed rat, 93, 781

Blood pressure, arterial, attentuation of fall in endotoxin shock by B4148 in rats, 94, 284

- , comparison of effects of BW A746C with those of sulmazole in various species in vivo, 93, 387
- —, effect of amlodipine in normotensive and SH rats, 94, 311
- —, effects of angiotensin II in pithed rats, 95, 1229
- , effect of flosequinan in conscious dogs and cats, 94, 371
- , effects of opioid peptides in anaesthetized rabbits, 94, 781
- -- , effect of PY 108-068 and PN 200-110 in spontaneously hypertensive rats, 93, 176
- , effects of various calcium antagonists compared with trans-diclofurimine in SH rats, 94, 1218
- , effects of vasoactive agents in normal and atherosclerotic conscious rabbits, 95, 1075
- -, influence of angiotensin II in pithed rat, 95, 1220
- —, involvement of β₂-adrenoceptor-mediated mechanisms in responses to α-adrenoceptor antagonism in Long Evans and Brattleboro rats, 93, 9
- , involvement of central adrenoceptors in response to electrical stimulation of rat rostral ventrolateral medulla, 94, 609
- , isoprenaline-induced increases, effect of bisprolol in anaesthetized pigs, 95, 361
- , kinetics of nifedipine and the relationship with serum concentrations, 95, 23
- , mean arterial, effects of depressor neuropeptides in conscious, unrestrained, Long Evans and Brattleboro rats, 95, 197
- , role of endothelin in physiological control in rabbit skin, 95, 1005
- , slight increase induced by idazoxan alone and with tyrosine in man, 95, 405

Blood pressure reflex, C-fibre-evoked, effect of clonidine or yohimbine in the rat, 94, 848

Blood vessels, rabbit isolated, examination of α-adrenoceptor subtypes for (–)-noradrenaline, 95, 473

 , rat, ACh-induced release of endothelium derived hyperpolarizing factor and EDRF, 95, 1165

Bombesin, effects in canine tracheal vasculature in vivo, 95, 1262

 , effects on glucose- and tolbutamide-induced insulin release in man, 94, 1023

Bowel, inflammatory disease, effect of anti-inflammatory

drugs on eicosanoid formation in a chronic model in the rat, 94, 65

Bradycardic agents, haemodynamic effect during treadmill exercise in dogs, 94, 55

Bradykinin, des Arg⁹-, action on rabbit aorta, effect of glucocorticoids, monokines and growth factors, 93, 969

- , effect on cardiac output in the anaesthetized rat, 95, 986
- , induction of contractions in isolated dog sphincter pupillae, involvement of prostaglandins, 95, 544
- induction of contractions in rat uterus or guinea-pig ileum in vitro, effects of Mandevilla velutina compounds, 94, 1133
- , induction of endothelium-dependent relaxation in coronary microvessels of the pig, 95, 1191
- , induction of negligible histamine release in human skin mast cells. 95, 121
- , induction of prostacyclin release from guinea-pig lungs and bovine endothelial cells, effect of captopril, 95, 783
- metabolism in rat lung, effect of monocrotalineinduced lung vascular injury, 94, 1167
- , production of EDRF and prostacyclin release in bovine cultured endothelial cells, 95, 189
- , role in the vascular permeability response induced by carrageenin in rats, 93, 739
- , simultaneous release of substance P- and calcitonin gene-related peptide- immunoreactivities from capsaicin-sensitive structures in guinea-pig heart, 94, 288
- , stimulation of ion transport in rat isolated colon, involvement of afferent nerve terminals, 94, 47
- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- , vasodilator responses in guinea-pig isolated perfused heart are independent of prostacyclin, 95, 379

Bradykinin analogues, evaluation for effects on [3H]-bradykinin binding sites and inositol phosphate production in neuroblastoma N1E-115 cells, 94, 3

 , role in nociception in peripheral nerve and spinal cord in the neonatal rat in vitro. 95, 1008

Bradykinin antagonists, attenuation of fall in arterial blood pressure in endotoxin shock, 94, 282

Bradykinin binding sites, multiple, suggested by differential agonist and antagonist activities, 94, 3

Bradykinin receptor, activation in peripheral nerve and spinal cord in the neonatal rat in vitro, 95, 1008

Brain, canine, stereospecificity of LY253352 for α₁-adrenoceptor binding sites, 95, 139

- , guinea-pig, potent selective antagonism of histamine
 H₂ receptors by zolantidine, 93, 69
- -, rat, characterization of binding of CGS 19755, 95, 932
- , rat, effect of ethanol and pantothenic on brain ACh synthesis, 95, 77

Brainstem, rat, evidence for excitatory 5-HT₂ receptors, 94, 483

Bretylium tosylate, effect on inhibitory effect of neuropeptide Y in guinea-pig airway, 93, 672

BRL 20627, interactions with brain benzodiazepine binding sites, 94, 1234

BRL 34915 see Cromakalim

Bronchial anaphylaxis, selective inhibition by novel acetohydroxamic acids in guinea-pigs, 94, 540

Bronchial hyperreactivity, induced by indomethacin, action

of sodium cromoglycate in anaesthetized guinea-pigs, 94, 515

Bronchoconstriction, anaphylactic, induction of airway hyperreactivity in anaesthetized guinea-pig, 94, 663

- , early and late phase, ovalbumin-induced, effect of nedocromil sodium, 94, 6
- —, effects of leukotriene D₄ in guinea-pig trachealis, 94, 729
- , non-cholinergic neural, effects of opioids in guinea-pig in vivo, 95, 413
- Paf and ovalbumin-induced, effect of Ro 19-3704, 94, 27
- , vagal mechanisms and the effect of indomethacin in guinea-pig, 94, 522

Bronchodilatation, induction by cromakalim in guinea-pig, comparison with nifedipine, 95, 763

-, procaterol-induced in clinical use, 95, 268

Bronchospasm, 5-HT-induced in guinea-pig, effect of cromakalim, 95, 763

Bumetanide, effect on ⁸⁶Rb uptake in human atrial cell line, 95, 614

α-Bungarotoxin, binding to sarcolemmal membranes of the rat, 94, 968

β-Bungarotoxin, blocking action on potassium channels of mouse and frog motor nerve terminals, 94, 839

BW443C, comparison of antinociceptive effects with classical opiates, peripheral versus central actions in the mouse, 93, 85

 , effect on cough, nociception and ventilation in the unanaesthetized guinea-pig, 93, 93

BW 755C, effect on phospholipase A₂-induced airway hyperreactivity in rat, 94, 1057

 , effect on pressor responses of rat superior mesenteric arterial bed to arginine vasopressin, 95, 646

BW A4C, effect on acute inflammatory responses in rats and mice. 94, 547

—, effect on bronchial anaphylaxis in guinea-pigs, 94, 540

 , failure to prevent ethanol-induced gastric damage, 95, 155

 , inhibition of arachidonate 5-lipoxygenase in vitro and ex vivo, 94, 528

BW A137C, failure to prevent ethanol-induced gastric damage, 95, 155

 , inhibition of arachidonate 5-lipoxygenase in vitro and ex vivo, 94, 528

BW A575C, cardiac and renovascular effect in anaesthetized dog, 93, 165

BW A746C, comparison of cardiovascular effects and biochemical effects with sulmazole in various species in vivo, 93, 387

BW A797c, effect on acute inflammatory responses in rats and mice, 94, 547

—, effect on bronchial anaphylaxis in guinea-pigs, 94, 540

 , inhibition of arachidonate 5-lipoxygenase in vitro and ex vivo, 94, 528

C

- C-fibres, activation by radient heat in glabrous and hairy skin, effect of mustard oil, 94, 180
- CA₁pyramidal cells, protective effects of nicardipine, flunarizine, lidoflazine and nimodipine against ischaemic

injury in Mongolian gerbil, 93, 877

Cadmium, effects on slow inward current of frog heart muscle in relation to a lowering of pH in external solution, 94, 469

Caecum, guinea-pig, pre- and postjunctional effects of purines and xanthines in circular muscles, 95, 653

Caffeine, comparison with effects of ryanodine on electromechanical coupling in myocardium of hibernating chipmunk, role of Ca stores, 95, 128

 , effect on inotropic responses to aminosteroids in guinea-pig ventricular muscle, 95, 1063

 , effect on voltage-sensitive calcium channel currents in cultured dorsal root ganglion neurones, 94, 653

 , inhibitory effects on contractions and calcium movement in vascular and intestinal smooth muscle, 93, 267

-, interactions with Ro 15-4513 in mice, 93, 210

 , pre- and postjunctional actions in guinea-pig caecum circular muscle, 95, 653

Calcitonin gene-related peptide, desensitization of skeletal muscle arterioles to substance P in vivo, 95, 673

-, effect in canine tracheal vasculature in vivo, 95, 1262

 , effect on microvascular permeability in guinea-pig airways, 95, 1109

 , induction of negligible histamine release in human skin mast cells, 95, 121

 regional haemodynamic effects in conscious, unrestrained, Long Evans and Brattleboro rats, 95, 197

Calcitonin gene-related peptide immunoreactivities, release by bradykinin from capsaicin-sensitive structure in guinea-pig heart, 94, 288

Calcium, and the activation of α-adrenoceptors in guineapig taenia caecum, 94, 557

 cytoplasmic concentrations, regulation of P_{2y}-purinoceptor-mediated prostacyclin release from human endothelial cells, 95, 1181

 , depletion from smooth muscle cells of rabbit ileal longitudinal muscle, effect of action of ryanodine on Cadependent K current, 95, 1089

 , effect of caffeine on movement in vascular and intestinal smooth muscle, 93, 267

 , effect on depolarization or guanfacine on uptake in canine saphenous vein stored at -190°C, 94, 381

 , effect of procaine on movement in vascular and intestinal smooth muscle, 94, 789

 , effect of removal on actions of lysylbradykinin in rabbit and rat colon, 95, 701

, effect of tricyclic antidepressants on influx into cultured cortical neurones of the rat produced by N-methyl-p-aspartate, 95, 95

 , effects on transient outward current of single isolated Helix central neurones, 95, 526

 evoked release of prolactin from electrically permeabilised 7315c cells, effect of cyclic AMP, 94, 737

 --- , extracellular, role in mechanisms of muscarinic and nicotinic receptor-mediated catecholamine secretion in guinea-pig adrenal glands, 93, 101

 , extracellular, role in potentiation of nicotinic responses and ACh release after tetanic preganglionic stimulation, 93, 399

- , extracellular, role in release of EDRF and prostacyclin from cultured endothelial cells, 95, 189
- , impairment of release from mammalian ventricular sarcoplasmic reticulum, effect of Bay K 8644, 94, 291

- , intra- and extracellular, role in contractions of rat isolated aorta and portal vein, 95, 145
- , intracellular, role in release of EDRF from cultured bovine endothelial cells, 95, 189
- , intracellular stores, role in release of transmitter at mouse neuromuscular junction, 93, 430
- , induction of contractile responses of rat aorta and mesenteric resistance vessels, effect of ryanodine, 95, 605
- , induction of contractions in rabbit isolated aortic strips, effect of methylflavonolamine hydrochloride, 94, 1184
- , role in histamine-dependent channel activity in humans, 95, 429
- , role in inward current evoked by muscarinic receptor stimulation in dialysed single smooth muscle cells of small intestine, 95, 325
- , role in phospholipase A₂-induced airway hyperreactivity in rat trachea, 94, 1057
- , role in thapsigargin stimulation of arachidonic acid metabolism, 94, 917
- Calcium agonists, vasodilator effects, antagonism by Bay K 8644 in dog femoral circulation, 93, 146
- Calcium antagonists, effect on contractile responses of human uterine artery, 94, 1037
- , cardiovascular effects in conscious spontaneously hypertensive rats, 93, 176
- , effect on contractile response of rabbit aortic rings to KCl-depolarization, angiotensin II, 5-HT and NA, 95, 741
- , effect on the actions of vasoactive agents in normal athersclerotic conscious rabbits, 95, 1075
- mechanism of action on arrhythmias in early myocardial ischaemia, 94, 1275
- , pharmacological and binding studies in isolated rat hearts and isolated membranes, 94, 253
- protective effects against electrical, mechanical and structural aspects of injury caused by simulated ischaemia, 94, 1207
- , vasodilator effects, antagonism by Bay K 8644 in dog femoral circulation, 93, 146
- Calcium channel antagonists, effect on ability of renal sympathetic nerves to cause antidiuresis and antinatriuresis in normotensive and SH rats, 93, 561
- , effect on beating of primary cultures of embryonic chick heart cells, 95, 771
- , effect on canine saphenous veins after storage at -190°C, 94, 381
- , effect on relaxations caused by potassium channel openers in rat oesophagus, 95, 519
- , inhibition of field stimulation-evoked relaxations in rat oesophageal smooth muscle, 95, 512
- —, renal actions in normotensive and SH rats, 94, 311
- , sodium-dependent inhibition of nicotinic adrenal catecholamine release, 95, 9
- , suppression of abstinence-induced [³H]-NA release, role in morphine withdrawal, 93, 535
- Calcium channels, at adrenergic nerve terminal and vascular smooth muscle, differentiation using ω -conotoxin, 94, 355
- , effect of amoxapine in mammalian isolated cardiac preparations, 94, 1250
- -, effect of baclosen in DRG neurones of rat and mouse,

- 94, 235
- , involvement of activation in pressor responses to Bay K 8644, 93, 994
- —, role in general anaesthesia in mice, 94, 413
- Calcium currents, actions of baclofen on components in rat and mouse DRG neurones in culture, 94, 235
- , effect of halothane on amplitude in single myocytes from guinea-pig ventricle, 94, 500
- -, effect of prenylamine in guinea-pig, 94, 319
- , in relation to chloride ion tail currents in cultured dorsal root ganglion neurones, 94, 653
- , voltage-dependent, inhibition by cromakalim in guinea-pig mesenteric artery and vein, role in relaxations, 95, 795
- Calcium-dependent potassium current, inhibition by ryanodine in smooth muscle cells of rabbit ileal longitudinal muscle, 95, 1089
- Calcium entry, effect of neuropeptide Y through depolarization of arterioles in the rat, 95, 419
- Calcium entry blockers, anticonvulsant effects in DBA/2 mice, 93, 247
- , interaction with calcium channels in rat mesenteric artery, selective modulation by membrane potential, 95, 252
- Calcium influx, reduction by somatostatin in dog Purkinje fibres, 93, 192
- , role in potassium permeability in rat oesophagus, 95, 519
- Calcium ions, intracellular concentrations in U937 cells, antagonism of Paf-induced rise, 93, 769
- Calcium sensitivity, of rabbit airway smooth muscle, 94, 389
- Calcium stores, intracellular, properties in pregnant rat myometrium, 95, 284
- release of calcium by ryanodine in rat mesenteric resistance vessels, 95, 605
- , role in effects of caffeine and ryanodine on electromechanical coupling in myocardium of hibernating chipmunk, 95, 1286
- , site of short-term desensitization of guinea-pig taenia caecum induced by carbachol, 94, 882
- Calcium transients, measurement after procaterol in smooth muscle cells of dog trachea, 93, 199
- Calmodulin antagonists, effect on contractile responses of human uterine artery, 94, 1037
 Capsaicin, blockade of nicotine-induced contraction in
- rabbit isolated iris sphincter, 95, 459
- , effect in intact and rubbed guinea-pig trachea in vitro,
 93, 909
- —, effect on canine tracheal vasculature in vivo, 95, 1262
- , effect on responses of rat isolated colon to bradykinin,
 94, 47
- , induction of blood pressure reflex, effects of clonidine and yohimbine in the rat, 94, 848
- , induction of secretion, pain and sneezing by application to nasal mucosa in man, 93, 509
- , neonatal administration, effect on ACTH secretion in rats, 94, 647
- , sensitivity of structures in guinea-pig heart, simultaneous release by bradykinin of substance P- and calcitonin gene-related peptide immunoreactivities, 94, 288
- Capsular smooth muscle, electrical and mechanical properties of rabbit prostate in relation to actions of YM-

12617, 93, 702

- Captopril, effect on bradykinin-induced release of prostacyclin from guinea-pig lungs and bovine aortic endothelial cells, 95, 783
- —, effect on bradykinin level in the inflammatory pouch fluid and on vascular permeability in rats, 93, 739
- , enhancement of inhibition of catecholamine output by low frequency stimulation in canine adrenal medulla, 93, 383
- —, effect on enhancement of S-I efflux of radioactivity from rat anococcygeus muscle pre-incubated with Γ³H1-NA, 95, 385
- Carbachol, effect of aging on potency on bovine tracheal smooth muscle, 93, 918
- , effects on smooth muscle function and phosphatidylinositol turnover in guinea-pig taenia caecum, 94, 199
- , induction of positive inotropic effects in rat atria treated with islet-activating protein (IAP), association with phosphatidyl-inositol breakdown, 94, 347
- , induction of short-term desensitization of guinea-pig taenia caecum occurring at intracellular stores, 94, 882
- , potency after removal of epithelium of guinea-pig trachea in vitro, 93, 909
- , release of vasopressin, central inhibition by GABA in the rat, 93, 349
- , stimulation of inositol phosphates, effects of excitatory amino acids in rat cerebral cortex, 95, 131
- Carbamylcholine, effect on contractile responses to intramural nerve stimulation in rat stomach, 93, 684
- 5-Carboxamidotryptamine, effect on neurones in the midline of rat medullary brainstem in vivo, 94, 483
- , inhibition of rat ventro-medial hypothalamic neurones in vitro, 95, 6
- , mimicking of depressant action of 5-HT in a rat brainstem neurones, 94, 492
- Cardiac arrhythmias, induction by lysophosphatidylcholine in rat perfused heart, 93, 412

 Cardiac contractility enhanced by 14 8-bydroxypro-
- Cardiac contractility, enhanced by 14 β -hydroxyprogesterone, 93, 453
- Cardiac dimensions, effect of celiprolol in conscious dogs, 93, 501
- Cardiac function, effect of BW A575C in anaesthetized dog, 93, 165
- Cardiac glycosides, high sensitivity of the Na⁺, K⁺-pump of human red blood cells to genins, 93, 803
- [³H]-cardiac glycosides, inhibition of specific binding of 14 β -hydroxyprogesterone, 93, 453
- Cardiac muscle, guinea-pig and rat isolated, mechanism of inotropic action of striatoxin, 95, 867
- —, mode of inotropic action of ciguatoxin, 95, 876
- Cardiac myocytes, effects of prenylamine in guinea-pig, 94,
- Cardiac output, effect of artificial respiratory volume on response to phenylephrine or xylazine, 93, 781
- —, induced by α-adrenoceptor agonists, effect of enalapril on distribution in pithed rats, 94, 449
- Cardiac tension, ovalbumin-induced decrease, effect of CGS 8515 in guinea-pig hearts, 95, 1321
- Cardiotonic steroids, lipophilicity and pharmacodynamics in guinea-pig isolated heart muscle preparations, 93, 281
- Cardiovascular effects, evaluation of opioid-induced anti-

- nociceptive effects in anaesthetized and conscious animals, 95, 275
- , kinetics of nifedipine and the relationship with serum concentrations, 95, 23
- Cardiovascular system, rabbit, peripheral sympathoinhibitory effects of opioid peptides, 94, 781
- Carrageenin, induction of vascular permeability response, role of bradykinin, 93, 739
- Cartilage degradation, granuloma-induced, evaluation of compounds using modified mouse air pouch model, 93, 627
- —, in relation to leucocyte infiltration in immune arthritis in the rabbit, 95, 169
- Catecholamines, adrenal, involvement in pressor responses to Bay K 8644, 93, 994
- , effects of volatile anaesthetics on secretion in bovine chromaffin cells, 95, 209
- , effects on hypothalamo-pituitary adrenal axis in man, 95, 405
- , inhibitory regulation by coreleased peptides in canine adrenal medulla, 93, 383
- —, mediation of effects by β -adrenoceptors in human heart, 94, 584
- —, released from adrenal medulla exert a compensatory, protective effect at β_2 -adrenoceptors against Pafinduced death in mice. 93, 132
- , secretion evoked in bovine adrenal chromaffin cells, effect of neosurugatoxin, 93, 275
- , sodium-dependent inhibition by PN200-110 enantiomers of release, 95, 9
- , voltage-independent release mediated by activation of muscarinic receptors in guinea-pig adrenal glands, 93, 101
- Caudate nucleus, rabbit, incubation with MPP+ followed by biochemical and functional analysis, 95, 449
- CD18 antigen, role in interleukin-1-induced neutrophil accumulation in vivo, 94, 1143
- Celiprolol, action as a positive inotropic β -adrenoceptor blocking agent in conscious dogs, 93, 501
- Cell culture, mouse neurone, effects of non-sedative anxiolytic drugs on responses to GABA and on diazepam-induced enhancement of these responses, 95, 109
- Cell line, insulin-secreting, effects of sulphonylureas and diazoxide on insulin secretion and nucleotide-sensitive channels, 95, 83
- Cerebellum, guinea-pig, temperature dependence of the kinetics of binding of [3H]-QMDP to histamine H₁ receptor, 94, 811
- Cerebral arteries, cat, effects of ouabain, 93, 43
- —, cat, heterogeneous vasomotor responses, 94, 423
- , cat isolated, actions of vanadate on vascular tension and sodium pump activity, 93, 53
- , human, characterization of histamine receptors, 94, 901
- Cerebral blood flow, effect of slow channel inhibitors in the rat. 95, 903
- Cerebral cortex, rat, α_2 -adrenoceptor-mediated inhibition of histamine release, 95, 1213
- —, rat, inhibitory effect of THA on depolarizationinduced release of GABA in the rat, 94, 1017
- , rat, quinolinic acid effects on amino acid release in vitro and in vivo, 93, 868
- -, rat, sensitivity of GABAergic system to chronic stress,

- 93, 483
- rat, stimulatory and inhibitory actions of excitatory amino acids on inositol phospholipid metabolism, 95, 131
- Cerebral ischaemia, protective effects of nicardipine, flunarizine, lidoflazine and nimodipine in Mongolian gerbil, 93, 877
- CGP 20712 A, effect on Paf lethality in mice, 93, 132
- —, use in the study of distribution of β-adrenoceptors in human internal mammary artery and saphenous vein,
 95. 225
- CGP 28392, effect on antagonist inhibition of beating of primary cultures of chick heart cells, 95, 771
- CGS 8515, inhibition of leukotriene release in anaphylactic guinea-pig heart, 95, 1322
- CGS 19755, characterization of binding in rat brain, 95, 932
- CHAPS, effect on endothelium-dependent vasorelaxation and pressure/flow relations in rat blood perfused mesenteric arterial bed, 95, 1081
- Charybdotoxin, effects on motor nerve terminals, 95, 1329
- Chemical structures, influence on lipophilicity and pharmacodynamics in guinea-pig isolated heart muscle, 93, 281
- Chemotaxis, contrasting in vitro lymphocyte activity of eicosanoids, 95, 966
- Chloride currents, GABA-gated, effect of diuretics in frog isolated sensory neurones, 93, 679
- Chloride currents, GABA-induced in Aplysia neurones, kinetic and pharmacological properties, 95, 883
- GABA-induced in isolated sensory neurones of the frog, effect of temperature change, 95, 753
- , modulation on cultured dorsal root ganglion neurones, 94, 653
- Chloride secretion, control by apical P₂-purinoceptors in rat epididymis, 95, 1315
- Chlorimipramine, effect on N-methyl-p-aspartate receptors, 95, 95
- β-Chlornaltrexamine, use in estimation of opioid receptor agonist dissociation constants in guinea-pig ileum, 95, 234
- 2-Chloroadenosine, effect on ACh release in rat superior cervical ganglion, 93, 399
- influence on potassium- and neurally-evoked ACh secretion from normal or latent active zones in the frog, 93, 833
- 1-(3-Chlorophenyl)piperazine, behavioural effects mediated by central 5-HT_{1c} receptors, 94, 137
- Chlorpromazine, effect on sympathetic neuroeffector transmission in the rabbit isolated pulmonary artery and aorta, 93, 23
- Cholecystokinin, endogenous, role in the regulation of food intake in rats, 93, 79
- Cholecystokinin octapeptide, effects on neuronal activity in the ventromedial nucleus of the rat hypothalamus, 94, 246
- Cholecystokinin receptor antagonists, effect on food intake in rats by the attenuation of the action of endogenous cholecystokinin, 93, 79
- Cholephilic dyes, hepatic handling in rats with acute renal failure, role of binding to ligandin, 95, 343
- Choline, effects of pantoyl-GABA on high affinity transport and brain concentrations in the rat, 95, 1303

- , effects on neostigmine-induced tetanic fade and endplate potential run-down in phrenic nerve-diaphragm preparations of the mouse, 95, 1255
- Cholinergic activity, effect of pantoyl-GABA in the rat, 95, 1303
- Cholinergic neurotransmission, modulation in guinea-pig trachea by neuropeptide Y, 93, 672
- Chromaffin cells, action of volatile anaesthetics on stimulus-secretion coupling, 95, 209
- Chronotropic effects, induced in rabbit sino-atrial node by nizofenone fumarate in vitro, 95, 1175
- Ciguatoxin, mode of inotropic action on guinea-pig cardiac muscle, 95, 876
- Cinnarizine, protective effects against severe progressive hypoxia in the rat, 95, 903
- Citric acid, induction of cough in dogs, effect of nedocromil sodium, sodium cromoglycate and codeine phosphate, 93, 609
- Clebopride, interactions with brain benzodiazepine binding sites in vitro, 94, 1234
- Clonidine, attenuation of ACTH response to morphine withdrawal in rats, 94, 647
- , effects on C-fibre-evoked blood pressure reflex in the rat, 94, 848
- —, effects on disposition of xenobiotics in rats, 94, 97
- , effects on [³H]-noradrenaline overflow in mouse vas deferens, 93, 35
- microinfusion into locus coeruleus, alteration of EEG power spectrum, effects of aging and phosphatidylserine, 95, 1278
- pressor responses to, effect of chronic prazosin pretreatment in anaesthetized rats, 93, 446
- Clozapine, action on stimulated striatal and limbic dopamine release, 94, 924
- Co-transmission, purinergic, blockade by nidedipine in pithed rats, 95, 695
- Cocaine, local anaesthetic actions investigated in CA1 region of rat hippocampal slice in vitro, 95, 117
- potentiating effects on response of rat anococcygeus muscle to NA and field stimulation, 94, 19
- Codeine, effect on citric acid-induced cough in dogs, 93, 609
 , effect on cough, nociception and ventilation in the unanaesthetized guinea-pig, 93, 93
- Coeliac ganglion cells, guinea-pig, comparison of fast and slow depolarizations evoked by 5-HT, 93, 110
- Colon, rat and rabbit, secretory effects of kinins on epithelium in relation to prostaglandins released from cells of lamina propria, 95, 701
- Cooling, phospholipase A₂-induced airway hyperreactivity to, in rat trachea, 94, 1057
- 'Concentration clamp' techniques, study of kinetic and pharmacological properties of GABA-induced chloride current in Aplysia neurones, 95, 883
- Conductance, regional, effects of apamin and BRL 34915 in rats and rabbits, 93, 121
- Conflict test, effect of GR38032F in the rat, 93, 985
- ω-Conotoxin, differential effect on release of the adrenergic transmitter and the vasoconstrictor response to NA in rat isolated kidney, 94, 355
- Contractile activity, of lipoxin A₄ and lipoxin B₄ for guinea-pig airway tissues, 95, 562
- Contractility, of human isolated internal mammary artery, modulatory role of vascular endothelium, 95, 531

- Contractions antigen-induced in guinea-pig trachea, studies with novel inhibitors and antagonists of arachidonic acid metabolites, 95, 309
- -- , calcium-dependent in rat aorta and mesenteric resistance vessels, effect of ryanodine, 95, 605
- , carbachol-induced in guinea-pig taenia caecum, mediation through muscarinic ACh receptors, 94, 882
- -- , effects of α-adrenoceptor stimulation on force in human isolated ventricular heart muscle, 94, 584
- , effect of potassium channel openers in dog atrial muscle, 95, 393
- -- , effects of procaine in vascular and intestinal smooth muscle, 94, 789
- , effects of halothane in single myocytes from guinea-pig ventricle, 94, 500
- GABA- and alphaxalone-induced in guinea-pig ileum,
 95. 33
- -, galanin-induced in rat ileum, 94, 1241
- , hypoxia-induced in canine coronary arteries, effect of flunarizine, 95, 789
- -, 5-HT-induced, effect of magnesium and potassium concentrations in canine isolated coronary artery, 94, 325
- , induced in guinea-pig myenteric plexus by endogenous excitatory amino acid agonists, 95, 1270
- , induced in mouse isolated distal colon by Bay K 8844,
 AC and K⁺ depolarization, pharmacological analysis,
 94, 1198
- KCl-induced in rat isolated aorta and portal vein, comparison of effects of calcium entry blockers, 95, 145
- , kinin-induced in rat uterus and guinea-pig ileum in vitro, effect of Mandevilla velutina compounds, 94, 1133
- , lithium-induced in guinea-pig taenia caecum, effects of some muscarinic agonists, 94, 199
- NA-induced in rat mesenteric resistance vessels, relaxation induced by pinacidil opening of potassium selective channels, 95, 103
- NA-induced in vascular and intestinal smooth muscle, effects of caffeine, 93, 267
- , of canine saphenous vein stored at -190°C in response to depolarization or guanfacine, 94, 381
- , of canine ventricular myocardium, study using ryanodine, 95, 811
- , of human uterine artery, effect of calcium and calmodulin antagonists, 94, 1037
- —, palytoxin-induced in rat tail artery, 95, 183
- PGF₂-induced, effect of monocrotaline-induced lung injury in the rat, 94, 11
- , xanthine derivative-induced in guinea-pig isolated trachelis muscle, 94, 1091
- Coronary arteries, canine, flunarizine inhibition of endothelium-dependent hypoxic facilitation through action on vascular smooth muscle, 95, 789
- , canine, importance of magnesium and potassium concentrations on basal tone and 5-HT-induced contractions, 94, 325
- canine, production of endothelium-dependent relaxation by amiloride analogues, role of Na⁺/Ca⁺ exchange, 95, 67
- , pig, prostacyclin release of EDRF and potentiation of its action, 95, 1197
- -, pig, relaxation responses to EDRF, 95, 630

- Coronary circulation, ACh-induction of endotheliumdependent vasodilatation in rabbit, 95, 830
- Coronary reperfusion, induction of arrhythmias, effect of ajmaline in rats, 93, 827
- Coronary sinus, effect of accelerans nerve stimulation on concentration of betaxolol in the dog, 95, 683
- Coronary smooth muscle, canine, endothelium-dependent hyperpolarization, 93, 515
- Coronary vasoconstriction, effect of atenolol and pindolol in isolated perfused heart of the rat, 94, 573
- Cortical neurones, rat, effect of pirenzepine and gallamine on spontaneous and evoked responses, 94, 192
- Cortical slices, rat, morphine withdrawal, suppression by calcium channel inhibitors of abstinence-induced [3H]-NA release, 93, 535
- Cortical synapses, effect of quinoxalinediones in rat, 95, 585 Corticotropin releasing factor, haemodynamic regional effects in conscious, unrestrained, Long Evans and Brattleboro rats. 95, 197
- Cortisol, effect on spontaneous sensitization of rabbit aorta to des-Arg⁹-bradykinin, 93, 969
- Corpus striatum, rat, sensitivity of GABAergic system to acute stress, 93, 483
- Coryanthine, use in the characterization of α -adrenoceptors on several blood vessels of the rabbit, 95, 473
- Contralateral hindpaw stimulation, induction of firing in rat cerebral cortical neurones, effect of muscarinic antagonists, 94, 192
- Controlled blood flow, influence on the effect of adenosine on the formation of prostacyclin- in rabbit isolated heart, 94, 721
- Convulsions, strychnine-induced, effects of mephenesin isomers in the mouse, 94, 1069
- Cough, citric acid-induced in dogs, effect of nedocromil sodium, sodium cromoglycate and codeine phosphate, 93, 609
- —, effect of codeine, morphine and BW443C in the unanaesthetized guinea-pig, 93, 93
- Coumarins, effect on the response of rabbits to vitamin K₁ in rabbits. 94, 1077
- Creatine kinase activity, effect of human superoxide dismutase in two models of myocardial ischaemia, 95, 735
- Cromakalim, anti-vasoconstrictor effects on rabbit aorta, comparison with isradipine, 95, 741
- —, cardiovascular effects in rats and rabbits, 93, 121
- —, endothelium-independent effects in rat aorta, 94, 853
- —, evaluation as a bronchodilator in guinea-pig, comparison with nifedipine, 95, 763
- , induction of relaxations in the smooth muscle cells of guinea-pig mesenteric artery and vein, 95, 795
- , negative inotropic effects in canine atrial muscle, 95, 393
- , relaxant actions in rat oesophageal tunica muscularis mucosae, 95, 519
- , relaxant action in smooth muscles, lack of involvement of cyclic nucleotides, 94, 1189
- , study of the anti-vasoconstrictor activity in spontaneously hypertensive rats; comparison with nifedipine, 93, 541
- Crotoxin, induction of biphasic frequency changes and giant m.e.p.ps in frog muscle, 94, 765
- Cryopreservation, effects of calcium channel blockade in canine saphenous veins, 94, 381

- [125]-Cyanopindolol, used to study the distribution of β -adrenoceptors in the human internal mammary artery and saphenous vein, 95, 225
- Cyclo-oxygenase, effect of anti-inflammatory drugs on formation in a chronic model of inflammatory bowel disease, 94, 65
- Cyclo-oxygenase inhibitors, effect on naloxone-precipitated withdrawal contracture of the morphine dependent guinea-pig ileum, 93, 932
- Cyclo-oxygenase products, interactions with angiotensin in pithed rat, 95, 1220
- N-(cyclopropylmethyl)-19-isopentylnonovinol see M320
- Cyproheptadine, effect on hypoactivity induced by mCPP and TFMPP in rats, 94, 137
- Cytochalasin-B, blockade of the inotropic effect of Bay K 8644 in rabbits, 94, 552
- Cytochrome P450, concentrations in rat superior mesenteric arterial bed after pheonbarbitone pretreatment upon endothelium-dependent relaxation to ACh, 94, 977
- Cytochrome P-450-mono-oxygenase inhibitors, mechanisms of action in blocking endothelium-dependent vasodilatation, 93, 569
- Cytosol, effect on α-bungarotoxin binding to sarcolemmal membranes of the rat. 94, 968

D

- Dantrolene sodium, effect on discharge of alpha and gamma motoneurones to the soleus muscle in the decerebrate rat, 93, 257
- Dapsone, effect on granuloma-induced cartilage degradation, 93, 627
- Death, induced by Paf, effects of drugs and experimental conditions which inhibit or stimulate adrenergic function, 93, 132
- Delagrange 2674, interactions with brain benzodiazepine binding sites, 94, 1234
- Dendrotoxins, effect on neuromuscular transmission and motor nerve terminal activity in various species, 93, 215
- Deoxycorticosterone metabolites, modulation of GABA_A receptors in preparations of porcine cerebral cortex, 94, 1257
- Depolarization, fast and slow, evoked in guinea-pig coeliac ganglion cells in vitro by 5-HT, 93, 110
- , 5-HT-evoked in hemisected spinal cord of neonate rats, 94, 1101
- , induction of contractions in canine saphenous vein and effect on Ca²⁺ uptake, 94, 381
- —, of rat resistance arteries by neuropeptide Y, 95, 419
- Depressant responses, to 5-HT, evidence for involvement of 5-HT₁-like receptors, 94, 492
- Depressor neuropeptides, regional haemodynamic effects in conscious, unrestrained, Long Evans and Brattleboro rats, 95, 197
- Desensitization, effect on 5-HT dissociation constant estimation, 95, 569
- Desmethylimipramine, effects of chronic oral administration on rat cortical GABA_R binding sites, 93, 331
- -, effect on N-methyl-D-aspartate receptors, 95, 95
- , potentiating effect on the response of rat anococcygeus muscle to NA and field stimulation, 94, 19

- Dexamethasone, effect on granuloma-induced cartilage degradation, 93, 627
- , effect on spontaneous sensitization of rabbit aorta to des-Arg⁹-bradykinin, 93, 969
- DHM9, mechanism of action on arrhythmias in early myocardial ischaemia, 94, 1275
- Diabetes, streptozotocin/alloxan-induced in dogs, hypoglycaemic and hypoketonaemic effects of oral methyl palmoxirate, 94, 130
- , streptozotocin-induced, effect of myoinositol in rats,
 93, 3
- Diabetes mellitus, impairment of endothelium-dependent relaxation in rats, 94, 463
- N,N-diallyl-tyrosyl substitution, production of [D-Pro¹⁰] dynorphin A(1-11) analogues with κ -opioid receptor antagonists, 95, 1023
- Diaphragm, rat, on the adenosine receptor and adenosine inactivation at the neuromuscular junction, 94, 109
- Diazepam, induction of enhancement of responses to GABA on mouse neurones in cell culture, effects of anxiolytic drugs, 95, 109
- Diazoxide, effects on insulin secretion and nucleotidesensitive channels in an insulin-secreting cell line, 95,
- Dibromosulphophthalein, pharmacokinetics and binding to hepatic cytosol proteins in rats with acute renal failure, 95, 343
- Dicyclomine, discrimination between M₁- and M₂-muscarinic receptors in the guinea-pig ileum, 94, 1270
- , selective ligand for putative M₁-muscarinic receptor, 93, 491
- Digitalis receptor, 14β -hydroxyprogesterone binding to, in cardiac and other tissues, 93, 453
- Dihydropyridine derivatives, antagonism of vasodilator effects in dog femoral circulation, 93, 146
- -, anticonvulsant effects in DBA/2 mice, 93, 247
- Dihydropyridine enantiomers, effect on force of contraction and action potential in guinea-pig isolated papillary muscles, 95, 1125
- Dihydropyridine facilitators, effect on beating of primary cultures of embryonic chick heart cells, 95, 771
- 2,6-Diisopropylphenol, effect on synaptic transmission in rat olfactory cortex slice. 95, 939
- Diltiazem, antagonism of vasodilator effects by Bay K 8644 in dog femoral circulation, 93, 146
- —, anticonvulsant effects in DBA/2 mice, 93, 247
- comparison of cardiovascular effects with those of trans-diclofurimine in SH rats, 94, 1218
- , effect on beating of primary cultures of chick heart cells, 95, 771
- , effect on canine saphenous veins after storage at -190°C, 94, 381
- , effect on contractions of rat isolated aorta and portal vein, comparison with other calcium entry blockers, 95, 145
- , effect on phospholipase A₂-induced hyperreactivity in rat, 94, 1057
- -, effect on pressor responses to Bay K 8644, 93, 994
- , effect on release of adrenergic transmitter and the vasoconstrictor response to NA in rat isolated kidney, 94, 355
- -, protective effects against severe progressive hypoxia in

the rat, 95, 903

- Dimaprit, effect on tracheal vascular resistance in sheep, 95,
- 4-Diphenylacetoxy-N-methyl piperidine, effect on actions of McN-A-343 in conscious dogs. 94, 566
- 4-Diphenylacetoxy-N-methyl piperidine methobromide analogues, affinity for muscarinic ACh in guinea-pig ileum and atria, 94, 947
- Diphenylamine-2-carboxylate, effect on anion secretion in rat epididymis, 94, 155
- Dipyridamole, effect on adrenosine metabolism and ATP dephosphorylation in guinea-pig trachea, 95, 689
- Distal colon, mouse isolated, pharmacological analysis of the effects of Bay K8644 and organic calcium antagonists, 94, 1198
- Dithiothreitol, protection of glucokinase against inhibition by alloxan and reversal of inhibition of enzyme induced by alloxan, 95, 851
- Diuresis, effects of amlodipine in normotensive and SH rats, 94, 311
- Diuretics, effect on GABA-activated chloride currents in frog isolated sensory neurones, 93, 679
- Divalent cation, activation of chloride ion currents, 94, 653
- Docosahexaenoic acid, effect on endothelium-dependent relaxation to bradykinin in coronary microvessels of the pig, 95, 1191
- Domperidone, effect on vasodilator responses to dopamine in ferret pulmonary corculation, 94, 212
- **Dopamine**, action of antagonists on striatal and limbic release, **94**, 924
- , measurement of release in dog mesenteric arterial vessels, 95, 218
- -- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- , vasodilator response to, in ferret pulmonary circulation, 94, 212
- Dopamine antagonists, actions on stimulated striatal and limbic dopamine release: an in vivo voltammetric study, 94, 924
- —, effect on the urine flow of rats infused with hypotonic saline, 93, 151
- Dopamine -β-hydroxylase, rate limiting step in the synthesis of NA in dog mesenteric arterial vessels, 95, 218
- **Dopamine receptors**, effect of aging on activity in rats, **95**, 335
- , prejunctional, mediation of control of transmitter release in dog mesenteric arterial vessels, 95, 218
- Dopamine D₂-receptors, on ventral tegmental area, site of action through which agonists evoke behavioural and electrocortical sleep, 95, 860
- Dopaminergic co-transmission, evidence in dog mesenteric arterial vessels, 95, 218
- Dorsal horn neurones, effect of intravenous opiates on excitation by noxious stimuli, 94, 185
- —, nociceptive, effect of mustard oil in rats, 94, 180
- Dorsal root ganglion neurones, rat and mouse, actions of baclofen on components of Ca-current in culture, 94, 235
- Doxazosin, effect of endothelium on the antagonistic action in rat aorta against phenylephrine, clonidine and NA, 95, 619
- Dynorphin, effect on peripheral sympatho-inhibitory cardiovascular system in anaesthetized rabbit, 94, 781

Dynorphin A(1-11), [D-Pro¹⁰]-, K-opioid receptor antagonist properties of, after substitution with N,N-diallyl-tyrosyl, 95, 1023

E

- Ear, rabbit, microangiographic study of effects of EDRF on resistance vessels, 93, 654
- Ear arteries, mechanism of acetaldehyde-induced NA release from sympathetic nerve terminals, 95, 177
- Ecothiopate, effect on action potentials in rat phrenic nervediaphram preparations, 94, 169
- Ectonucleotidase enzymes, dephosphorylation of ATP to form adenosine in guinea-pig trachea, 95, 689
- Eicosanoids, effect of anti-inflammatory drugs in a chronic model of inflammatory bowel disease in the rat, 94, 65
- Eicosanoids, contrasting in vivo lymphocyte chemotactic activity, 95, 966
- Eicosapentaenoic acid, effect on endothelium-dependent relaxation to bradykinin in coronary microvessels of the pig, 95, 1191
- EGTA, effect of the transient outward current of single isolated *Helix* central neurones, 95, 526
- Electrical activity, effects of halothane in single myocytes from guinea-pig ventricle, 94, 500
- Electrical coupling, between cells, effect of halothane in cell pairs isolated from guinea-pig ventricular muscle, 94, 509
- Electrical field stimulation, release of [3H]-NA from rat isolated atria, influence of protein kinase C, 94, 713
- Electrical stimulation, production of pressor responses, effect of BRL 34915 and nifedipine in SHR. 93, 541
- Electrocortical spectrum power, effects of dopamine agonists given in various areas of brain to freely moving rats. 95, 860
- Electromechanical coupling, in myocardium of hibernating chipmunk, comparison of the effects of caffeine and ryanodine, 95, 1287
- Electrophysiology, effects of leukotriene D₄ in guinea-pig trachealis, 94, 729
- [125]-eledoisin, binding in rat cortex synaptic membranes, 94, 602
- Enalapril, effects on changes in cardiac output and organ vascular resistances induced by α_1 and α_2 -adrenoceptor agonists in pithed rats, 94, 449
- , enhancement of inhibition of catecholamine output by low frequency stimulation in canine adrenal medulla, 93, 383
- Endothelial cells, cultured bovine, differential role of extraand intracellular calcium in the release of EDRF and prostacylin, 95, 189
- , human umbilical vein, histamine-induced inward currents, 95, 429
- , pig aorta, effect of endothelium-derived relaxing factor and atriopeptin II on cyclic GMP levels, 93, 229
- Endothelial injury, complement-induced, effect on prostacyclin biosynthesis and 5-HT uptake in dog isolated lung, 93, 791
- Endothelin, induction of microvascular constriction in rabbit skin, 95, 1005
- -, induction of rat gastric damage, 95, 1011
- Endothelium, effect of removal on action of ACh on NA vasoconstriction in superior mesenteric arterial bed,

- 94, 977
- , effect of removal on the action of flunarizine on contractile responses of canine coronary arteries, 95, 789
- , effect on action of leukotriene D₄ in guinea-pig basilar arteries, 93, 591
- –, localization of β-adrenoceptors in human internal artery and saphenous vein, 95, 225
- , location of P_{2x} and P_{2y}-purinoceptors in rat mesenteric bed, 95, 637
- —, pulmonary, altered function following monocrotalineinduced lung vascular injury in rats, 94, 1175
- , rat aortic, action of methoctramine and himbacine at muscarinic receptors, 95, 1031
- , role in the modulation of pressor responses to arginine vasopressin in isolated superior mesenteric arterial bed of the rat, 95, 646
- , vascular, modulatory role in contractility of human internal mammary artery, 95, 531
- —, vascular, modulatory role in the interaction of agonists and antagonists with α-adrenoceptors in the rat aorta, 95, 619
- Endothelium-dependent relaxation, an early marker for atherosclerosis in the rabbit, 94, 335
- , impairment in aortae from spontaneously diabetic rats,
 94, 463
- response to bradykinin in pig coronary microvessels, effect of ω-3-polyunsaturated fatty acids, 95, 1191
- Endothelium-dependent vasodilatation, blockade by lipoxygenase and cytochrome P-450-mono-oxygenase inhibitors, mechanism of action, 93, 569
- Endothelium-dependent vasorelaxation, effect of detergent and methylene blue in rat blood perfused mesenteric arterial bed, 95, 1081
- Endothelium derived hyperpolarizating factor, ACh-induced release from rat blood vessels, 95, 1165
- Endothelium-derived relaxing factor, ACh-induced release from canine femoral artery, effect on membrane potential of coronary arterial smooth muscle, 93, 515
- —, ACh-induced release from rat blood vessels, 95, 1165
- , derivative of bovine inhibitory factor from bovine retractor penis, 93, 570
- , effect of aging on ability of endothelium to produce in rat thoracic aorta, 95, 1015
- , effect of captopril on release from bovine aortic endothelial cells, 95, 783
- —, effect of intra- and extracellular calcium on release in cultured endothelial cells, 95, 189
- , effect of monocrotaline-induced lung injury on the ability of endothelium cells to produce, 94, 1175
- , effect on cyclic GMP levels in pig aortic endothelial cells, 93, 229
- , effect on resistance vessels in an intact vascular bed: microangiographic study of rabbit isolated ear, 93, 654
- , effects on vascular and non-vascular smooth muscle, influence of haemoglobin and erythrocytes, 95, 1151
- , effect on vasodilator actions of bradykinin in the anaesthetized rat, 95, 986
- -, in vivo activity influences platelet function, 94, 1020
- possible role in mediation of vasodilator responses of guinea-pig isolated perfused heart to ACh, A23187 and bradykinin, 95, 379
- prostacyclin induced release and potentiation of its action in pig coronary arteries, 95, 1197

- , relaxation responses of preconstricted pig coronary artery and rabbit aorta, 95, 630
- , released from rabbit perfused aorta, platelet activating inhibition, 95, 1308
- , role in contractility of human isolated internal mammary artery, 95, 531
- , role in the effects of ACh and histamine on resistance blood vessels, 95, 835
- , role in the effects of ACh, sodium nitroprusside and cromakalin in rat aorta, 94, 853
- , role of Na⁺/Ca⁺ exchange in secretion in canine coronary artery, 95, 67
- Endothelium vasodilatation, induced by extract from bovine retractor penis, 93, 570
- Endotoxin, induction of pulmonary oedema and prostaglandin E₂ pharmacokinetics, modification by steroids, 93. 955
- Endotoxin shock, fall of arterial blood pressure, effect of B4148 in rats, 94, 284
- , induction of blood flow reduction and histological injury in rat gastric mucosa, effect of indomethacin, 93, 925
- Endplate potentials, effect of tubocurarine, choline and hexamethonium in phrenic nerve-diaphragm preparations of the mouse, 95, 1255
- **Enkephalin**, [D-Ala²-MePhe⁴-Gly-ol⁵], use in the study of the ontogenesis of δ and μ -opioid binding sites in rats, 94, 933
- , [Met], effect on gastric excitatory responses to stimulation of vagus nerves in the cat, 95, 335
- —, [D-Pen², D-Pen⁵], use in study of the ontogenesis of δ and μ -opioid binding sites in rats, 94, 933
- Enkephalins, effect on peripheral sympatho-inhibitory cardiovascular system in anaesthetized rabbit, 94, 781
- Enkephalinase inhibitor, effect on neurokinin-induced contractions of guinea-pig isolated trachea, 94, 675
- Enprofylline, effect on adenosine receptor-mediated contraction and relaxation of guinea-pig isolated tracheal smooth muscle, 95, 371
- , lack of effect of epithelium removal on potency in guinea-pig trachea, 93, 909
- Epidermal growth factor-urogastrone, induction of contractions in longitudinal smooth muscle strips from guinea-pig stomach, inhibition by anti-inflammatory agents, 95, 821
- Epididymis, rat, control of anion and fluid secretion by apical P₂-purinoceptors, 95, 1315
- , rat, inhibition of anion secretion by chloride channel blockers, 94, 155
- Epilepsy, activity in hippocampus after systemic administration of cocaine in rat, 95, 1117
- , anticonvulsant effects of some calcium entry blockers in DBA/2 mice, 93, 247
- Epileptiform activity, role of quisqualate and kainate receptors in forebrain and spinal cord, 95, 585
- Epithelial cells, effect of removal on actions of lysylbradykinin in rat and rabbit colon, 95, 701
- , effect of removal on neurokinin-induced contractions of guinea-pig isolated trachea, 94, 675
- , effect on pharmacology of guinea-pig tracheal tone in vitro, 93, 909
- , influence on the responsiveness of guinea-pig isolated trachea to adenosine, 93, 295

- , prostaglandin E₂ production, modulation of histamine senstivity and responsiveness in guinea-pig trachea, 95, 300
- , role in stimulation of ion transport by bradykinin in rat isolated colon, 94, 47
- Erythrocytes, human and rat, high sensitivity of Na⁺, K⁺-pump of human red blood cells to genins of cardiac glycosides, 93, 803
- , influence on effects of EDRF, a smooth muscle inhibitory factor and nitric oxide on vascular and non-vascular smooth muscle, 95, 1151

Ethanol, anaesthetic potency, effect of Bay K 8644 in mice, 94, 413

- -, effect on brain ACh synthesis in rats, 95, 77
- , effect on phenylalkylamine binding sites in isolated rat heart, 94, 253
- , induction of gastric damage, failure of BW A4C and BW A137C to prevent in rats, 95, 155
- , induction of gastric injury, relationship with effects of non-steroidal anti-inflammatory drugs on leukotriene
 C₄ and prostanoid release in the rat, 93, 937
- induction of gastric ulcers in rat, effect of sulphasalazine and PhCL28A on formation, 93, 465
- , induction of mucosal damage, effect of Paf in rat, 93, 222

Ethrane, effect on stimulus-secretion coupling in bovine adrenal chromaffin cells, 95, 209

Etorphine, attenuation of excitation of dorsal horn neurones by noxious stimuli, lack of effect on inhibition in rats, 94, 185

Evoked responses, effect of muscarinic antagonists in rat cerebral cortical neurones, 94, 192

Excitation-contraction coupling, effect of cromakalim in rabbit aorta, 95, 741

- -, effects of leukotriene D₄ in guinea-pig trachealis, 94,
- , study using ryanodine in canine ventricular myocardium, 95, 811

Excitatory amino acid receptors, binding of CGS 19755, 95, 932

 , quantitative pharmacological analysis in the mouse neocortex in vitro, 93, 693

Excitatory amino acids, effects of agonists, antagonists and modulators in guinea-pig myenteric plexus, 95, 1271

- , effects on endogenous aspartate and glutamate release from rat hippocampol slices, 93, 863
- —, quantitative study of actions in rat hippocampal slices,
 95, 291
- , stimulatory and inhibitory actions on inositol phospholipid metabolism in rat cerebral cortex, 95, 131

Excitatory junction potential, effect of P₁-purinoceptor agonists and antagonists on amplitude in the mouse vas deferens in vitro, 94, 37

- -, effect of procaterol on dog tracheal tissue, 95, 268
- —, effect of prolonged exposure to α,β-methyl ATP in chicken rectum, 94, 9
- —, role of ATP in mediation in rectum of chicken, 95, 1157

Exploration test, effect of GR38032F in mice, 93, 985

F

Factor VIII release, effect of vasopressin, deamino-(D-

- arginine⁸)-vasopressin and adrenaline, in vivo assay in sheep, 94, 279
- Fade, effect on estimation of 5-HT dissociation constant, 95, 569
- , of gastric acid secretory response to pentagastrin in rat isolated gastric mucosa, 95, 1047

Fast cyclic voltammetry, in vivo study of actions of dopamine antagonists on stimulated striatal and limbic dopamine release, 94, 924

Femoral artery, cat, actions of ouabain, 93, 43

- , cat, actions of vanadate on vascular tension and sodium pump activity, 93, 53
- SH rats, evidence for reduced β-adrenoceptor coupling to adenylate cyclase, 94, 73
- SH rats, role of stimulatory GTP-binding protein (Gs) in reduced β-adrenoceptor coupling, 95, 241

Femoral circulation, dog, differential antagonism by Bay K 8644 of vasodilator effects of nifedipine, diltiazem, nicorandil and nitroglycerin, 93, 146

Fendiline, protective effects against severe progressive hypoxia in the rat, 95, 903

Fenoterol, effect on Paf lethality in mice, 93, 132

Fenoprostalene, action of guinea-pig smooth muscle and platelets, 94, 591

Field potentials, quantitative effects of some muscarinic agonists recorded from the guinea-pig olfactory cortex slice. 93, 846

Field stimulation, production of NA overflow in mouse vas deferens, effect of clonidine and morphine, 93, 35

 , production of relaxations in rat oesophageal tunica muscularis mucosae, 95, 519

Fish oil, effect on endothelium-dependent relaxation to bradykinin in pig coronary microvessels, 95, 1191

Flexinoxan, effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975

Flosequinan, cardiovascular effects in conscious dogs and cats, 94, 371

Fluid secretion, control by apical P₂-purinoceptors in rat epididymis, 95, 1315

Flumazenil, effect on nociception and on morphine-induced antinociception in rats, 93, 964

Flunarizine, anticonvulsant effects in DBA/2 mice, 93, 247

- , effect of interaction with calcium channels in rat mesenteric artery, selective modulation by membrane potential, 95, 252
- , effect on contractions of rat isolated aorta and portal vein, comparison with other calcium entry blockers, 95, 145
- , inhibition of endothelium-dependent hypoxic facilitation in canine coronary arteries through an action on vascular smooth muscle, 95, 789
- protective effects against ischaemic injury in the hippocampus of the Mongolian gerbil, 93, 877

Flupenthixol, action on stimulated striatal and limbic dopamine release, 94, 924

Flurbiprofen, effect on angiotesnin II antagonism of the effects of teprotide in pithed rats, 95, 1229

 , effect on antagonism by angiotensin II of inhibitory effects of teprotide on nerve-mediated pressor response in pithed rat, 95, 1220

Flushing, responses to vasopressin peptides in rhesus monkey, 94, 759

FPL 55712, effect on phospholipase A2-induced airway

hyperreactivity in rats, 94, 1057

Foetus, rat, placental clearance relative to maternal placental clearance of salicylate, 93, 978

Food intake, effect of L364, 718 in the rat, 93, 79

Force of contraction, effect of dihydropyridine derivative 202-791 enantiomers and racemate in guinea-pig isolated papillary muscles, 95, 1125

Forskolin, effects in guinea-pig isolated trachealis muscle, 94, 1091

- effects on evoked ACh release and postganglionic response, in rat superior cervical ganglion, 93, 399
- -, relaxant responses to in femoral arteries of SHR, 94,
- -, release of EDRF and potentiation of its action in coronary arteries of the pig, 95, 1197
- stimulation of adenylate cyclase, facilitation of 5-HT

release from enterochromaffin cells, 95, 923 Furosemide, effect on GABA-activated chloride current in

frog isolated sensory neurones, 93, 679 —, effect on renal haemodynamics and proximal tubular

sodium reabsorption in conscious rats, 95, 353

G

Gaddum Memorial Lecture, eleventh, 94, 987

Gamma motoneurone discharge, effect of dantrolene sodium in soleus muscle of decerebrate rat, 93, 257

Gallamine, antagonism of positive inotropic effect of carbachol in rat atria, 94, 347

- -, effects on membrane and contractile properties of smooth muscle cells and neuro-effector transmission in dogs, 93, 636
- —, effects on spontaneous and evoked response of rat cerebral cortical neurones, 94, 192

Gallopamil, protective effects against severe progressive hypoxia in the rat, 95, 903

Gallanin, contribution to non-cholinergic, non-adrenergic transmission in rat ileum, 94, 1241

Gastric acid secretion, correlation between lipophilicity of muscarinic and histamine H2-receptor antagonists and degree of antagonist pK_B value underestimation, 94, 264

Gastric damage, induction in rat by endothelin, 95, 1011 Gastric motility, effect of vagal stimulation and purine compounds in the atropine-treated rabbit, 94, 1157

Gastric mucosa, rat, effects of non-steroidal antiinflammatory drugs on leukotriene C4 and prostanoid release in relation to ethanol-induced injury, 93, 937

- -, rat, indomethacin potentiates endotoxin-induced blood flow and histological injury in rat gastric mucosa, 93, 925
- -, rat, induction of damage by Paf after local intraarterial administration, 93, 222
- -, rat isolated, fade and tachyphylaxis of gastric acid secretory response to pentagastrin, 95, 1047

Gastric ulceration, ethanol-induced, failure of inhibition of rat gastric mucosal 5-lipoxygenase by novel acetohydroxamic acids to prevent, 95, 155

Gastrin, interaction with its receptors in rat isolated gastric mucosa, 95, 1047

Gastointestinal motility, stimulation by cisapride in guineapig ileum, 94, 228

Genins, of cardiac glycosides, high sensitivity of the Na⁺, K⁺-pump of red blood cells, 93, 803

Gestation period, effect of M320 on length in rats, 95, 777 Giant miniature endplate potentials, induction by crotoxin in frog muscle, 94, 765

Girardi human atrial cell line, effects of magnesium, ouabain and bumetanide on 86Rb uptake, 95, 614

Glomerular filtration rate, effect of furosemide in conscious rats. 95, 353

Glucocorticoids. effect on contractions induced by EGF-URO in isolated longitudinal smooth muscle strips from guinea-pig stomach, 95, 821

-, effect on the spontaneous sensitization of rabbit aorta to des-Arg9-bradykinin, 93, 969

-, role of lipocortin in the mechanism of action, 94, 987

Glucokinase, structural requirements of alloxan and ninhydrin for inhibition and of glucose for protection against inhibition, 95, 851

Glucose, induction of insulin release in man, effect of bombesin, 94, 1023

-, mechanism of action of interaction with alloxan when competing for sugar binding site of glucokinase from pacreatic B-cells or liver, 95, 851

Glutamate, effect of excitatory amino acid antagonists on release from rat hippocampal slices, 93, 863

—, induction of firing in rat cerebral cortical neurones, effect of muscarinic antagonists, 94, 192

Glutamate receptors, blockade by tricyclic antidepressants, **95**, 95

Glutamic acid, induction of muscle contraction in guineapig myenteric plexus, 95, 1271

Glutamic acid decarboxylase, effect of stress on activity in rat corpus striatum and cerebral cortex, 93, 483

Glycerol, plasma levels, effect of α -adrenoceptors in conscious fasted rabbits, 94, 299

Glycine, effect on responses of guinea-pig myenteric plexus to glutamic acid, 95, 1271

Glycoprotein, radiolabelled output in ferret trachea in vitro in response to methacholine, phenylephrine and salbutamol, 94, 293

Gold sodium thiomalate, effect on granuloma-induced cartilage degration, 93, 627

Gonadotrophins, effect of idazoxan or tyrosine in man, 95, 405

GR38032F, pharmacological properties, 94, 397

potential anxiolytic activity in five animal models, 93, 985

GR43175, actions on 5-HT₁-like receptors in dog saphenous vein, 94, 1123

Granuloma, induction of cartilage degradation, effect of various compounds, evaluation using modified mouse air pouch model, 93, 627

Growth factors, effect on spontaneous sensitization of rabbit aorta to des-Arg9-bradykinin, 93, 969

Growth hormone, effect of idazoxan or tyrosine on arousal in man, 95, 405

Guanethidine, effect on Paf lethality in mice, 93, 132

Guanine nucleotide, effect on binding of [D-Pro¹⁰] dynorphin A(1-11) analogues at μ - and κ -binding sites, 95,

Guanfacine, induction of contractions in canine saphenous vein and effect on Ca2+ uptake, 94, 381

Guanosine 3',5'-monophosphate, cyclic, effect of aging on

- production, 95, 1015
- , cyclic, effect of endothelium-derived relaxing factor and atriopeptin II on levels in pig aortic endothelial cells, 93, 229
- , cyclic, effect of endothelium removal on concentrations in rat aorta, 94, 853
- , cyclic, effects of rubbing of the endothelium on concentrations in human isolated mammary artery, 95, 531
- , cyclic, lack of effect of adenosine in guinea-pig papillary muscles, 93, 729
- , cyclic, lack of involvement in inotropic effects of nicorandil, cromakalim and pinacidil in canine atrial muscle, 95, 393
- , cyclic, lack of involvement in smooth muscle relaxant action of BRL 34915, 94, 1189
- , cyclic, platelet concentrations after stimulation of EDRF activity by carbachol, 94, 1020
- Guanosine triphosphate analogue, effect on voltage-sensitive calcium currents in cultures dorsal root ganglion neurones. 94, 653
- Guanosine triphosphate binding protein, role in inward current evoked by muscarinic receptor stimulation in dialysed single smooth muscle cells of small intestine, 95, 325
- , stimulatory, role in reduced β-adrenoceptor coupling in femoral artery of SH rats, 95, 241
- Guanylate cyclase, effect on cyclic GMP levels in pig aortic endothlial cells, 93, 229
- , measurement of bradykin-induced release of EDRF in cultured endothelial cells, 95, 189
- , soluble, effect of lipoxygenase and cytochrome P-450mono-oxygenase inhibitors on activity, 93, 569

Н

- HA1004, anticonvulsant effects in DBA/2 mice, 93, 247
 Haemodynamics, regional, effects of apamin and BRL
 34915 in rats and rabbits, 93, 121
- Haemoglobin, effect on ACh-induced electrical and mechanical responses in rat aorta and pulmonary artery, 95, 1165
- , influence on effects of EDRF, a smooth muscle inhibitory factor, and nitric oxide on vascular and non-vascular smooth muscle, 95, 1151
- Haemophilia, effects in sheep of vasopressin, deamino-(D-arginine⁸)-vasopressin and adrenaline, in vivo assay system, 94, 279
- Haloperidol, effect on urine flow in rats infused with hypotonic saline, 93, 131
- Halothane, effect on electrical coupling in cell pairs isolated from guinea-pig ventricle, 94, 509
- , effects on membrane currents associated with contraction in single myocytes from guinea-pig ventricle, 94, 500
- , effect on stimulus-secretion coupling in bovine chromaffin cells, 95, 209
- Heart, chick and guinea-pig, subtypes of muscarinic receptor on cholinergic nerves and atrial cells, 93, 357
- , guinea-pig, adenosine inhibition of positive inotropic effects of 3-isobutyl-1-methylxanthine without effect on cyclic AMP and cyclic GMP, 93, 729
- -, guinea-pig, electrophysiological mechanism for anti-

- arrhythmic action of propafenone and mexiletine, 95, 1039
- , guinea-pig, simultaneous release by bradykinin of substance P- and calcitonin gene-related peptide immunoreactivities, 94, 288
- , mammalian, inhibitory actions of amoxapine on electrophysiological properties. 94, 1250
- -- , rabbit, effect of adenosine on the formation of prostacyclin, 94, 721
- -- , rabbit, effect of bepridil on ventricular depolarization and repolarization, possible proarrhythmic properties, 93, 775
- , rabbit isolated, electrophysiological effects of melperone, 94, 1063
- , rat perfused, accumulation of lysophosphatidylcholine,
 93, 412
- Heart cells, chick, effects of calcium channel antagonists and facilitators on beating of primary cultures, 95, 771
- Heart failure, effect of pretreatment with β -adrenoceptor antagonists on β -adrenoceptor density in humans, 94, 685
- Heart muscle, frog, effects of cadmium on the slow inward current in relation to a lowering of pH in external solution, 94, 469
- Heart muscle preparations, guinea-pig, lipohilicy and pharmacodynamics of cardiotonic steroids, 93, 281
- Heart rate, comparison of effect of BW A746C with those of sulmazole in various species in vivo, 93, 387
- , effect of apamin and BRL 34915 in rats and rabbits,
 93, 121
- , effect of flosequinan in conscious dogs and cats, 94, 371
- -, effect of 5-HT in the pig, 93, 663
- —, effect of McN-A-343 in conscious dogs, 94, 566
- , effect of opioid peptides in anaesthetized rabbits, 94, 781
- , effects of various calcium antagonists compared with trans-diclofurime in SH rats, 94, 1218
- Heart rate, involvement of β_2 -adrenoceptor-mediated mechanisms in responses to α -adrenoceptor antagonism in Long Evans and Brattleboro rats, 93, 9
- Heart rate, isoprenaline-induced increase, effect of bisprolol in anaesthetized pigs, 95, 361
- , kinetics of nifedipine and the relationship with serum concentrations, 95, 23
- Helix neurones, effect of Ca²⁺ on transient outward current of single neurones, 95, 526
- Hepatic artery, actions of neuropeptide Y and peptide YY on the vascular bed in anaesthetized dog, 94, 1149
- Hepatic cytosol proteins, binding of dibromosulphophthalein in rats with acute renal failure, 95, 343
- Hexamethonium, effect on neostigmine-induced tetanic fade and endplate potential run-down in phrenic nervediaphragm preparations of the mouse, 95, 1255
- High affinity transport, choline, effect of pantoyl-GABA in rat brain, 95, 1303
- Hexahydroadiphenine, selective ligand for putative M₁-muscarinic receptor, 93, 491
- High pressure neurological syndrome, investigation into the origin, 94, 1069
- Himbacine, interaction with methoctramine at atrial, smooth muscle and endothelial muscarinic receptors in vitro, 95, 1031

- Hippocampus, calf, effect of centrally acting hypotensive agents on forskolin-stimulated adenylate cyclase activity, 95, 975
- , rabbit, involvement of protein kinase C in presynaptic modulation of ACh, 93, 525
- rat, effects of cocaine on excitatory and inhibitory synaptic responses in vitro, 95, 1117
- rat, quantitative study of the actions of excitatory amino acids and antagonists, 95, 291
- Hippocampal synapses, effect of quinoxalinediones in rat, 95, 585
- Histamine, airway responsiveness to, effect of REV 5901 in guinea-pigs, 94, 1115
- —, α₂-adrenoceptor-mediated inhibition of release from rat cerebral cortical slices. 95, 1213
- , antigen-induced release from human skin in vivo and in vitro, 94, 773
- —, biphasic effects of intra-accumbens administration on spontaneous motor activity in the rat, 95, 1292
- , effect on resistance blood vessels in the rat, role of EDRF, 95, 835
- —, effect on tracheal vascular resistance in sheep, 95, 551
- , indomethacin-induced hyperreactivity to, in guineapigs, 94, 522
- , induction of inward currents in cultured endothelial cells from human umbilical vein, 95, 429
- , induction of short-term densensitization of guinea-pig taenia caecum occurring at histamine H₁-receptors, 94, 882
- , induction of vasodilatation in rat thoracic aorta, effect of aging, 95, 1015
- , neuropeptide-induced, characterization of release from human dispersed skin mast cells, 95, 121
- regional differences in the effects in rabbit airway smooth muscle, 94, 389
- -, release from sensitized guinea-pig lung following antigen challenge, 93, 751
- , spasmogen action in guinea-pig isolated trachealis, 93, 319
- —, stimulation of inositol phospholipid hydrolysis in bovine tracheal smooth muscle, effect of β_2 -adrenoceptor stimulation of inhibition, 95, 1204
- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- , with indomethacin, pulmonary responses to, effect of sodium cromoglycate in anaesthetized guinea-pigs, 94, 515
- Histamine H₂-receptor antagonists, correlation between pK_B estimates and lipophilicity, 94, 264
- Histamine receptors, central, role in biphasic effects of intra-accumbens histamine administration on spontaneous motor activity, 95, 1292
- , characterization in isolated human cerebral arteries, 94, 901
- **Histamine H₁-receptors**, characterization in tracheal circulation of the sheep, **95**, 551
- , potential utility of [³H]-(+)-N-4-methyl-diphenhydramine for H₁-receptor studies, 94, 797
- , site of short-term densensitization of guinea-pig taenia caecum induced by carbachol, 94, 882
- temperature-dependence of kinetics of binding of [3H]-QMDP, 94, 811
- Histamine H2-receptors, characterization in tracheal circu-

- lation of the sheep, 95, 551
- —, selective antagonism by zolantidine in guinea-pig brain, 93, 69
- Histamine H₃-receptors, presence on histamine containing nerve terminals in rat cerebral cortex and influence on neurotransmitter release, 95, 1213
- Histological injury, endotoxin-induced in gastric mucosa, effect of indomethacin, 93, 925
- L-Homocysteate, induction of contractions in guinea-pig myenteric plexus, 95, 1271
- α-Human atrial natriuretic polypeptide, effect on GABAactivated chloride current in frog isolated sensory neurones, 93, 679
- Hydralazine, cardiovascular effects in cats and dogs, 94, 371
 4-Hydroxy-2-methyl-4-phenyl-1,2,3,4-tetrahydroiso quinoline, potentiating effects on response of rat anococcygeus muscle to NA and field stimulation, 94, 19
- R-(+)-3-(3-Hydroxy-phenyl-n-propyl-piperidine) hydrochloride, see (+)-3PPP
- 8-Hydroxy-2-(di-n-propylamino) tetralin, effect on neurones in the midline of rat medullary brainstem in vivo, 94, 483
- , inhibition of rat ventromedial hypothalamic neurones in vitro, 95, 6
- , mimicking of depressant action of 5-HT in rat brainstem neurones, 94, 492
- 4-Hydroxycoumarin activity, stereoselectivity, role of vitamin K 2,3-epoxide reductase in the rat, 95, 675
- 6-Hydroxydopamine, lack of effect on inhibition induced by neuropeptide Y in guinea-pig airway, 93, 672
- 14-β-Hydroxyprogesterone, binding to digitalis receptor, inhibition of sodium pump and enhancement of cardiac contractility, 93, 453
- 5-Hydroxytryptamine, adrenergic modulation of release from vascularly perfused ileum of guinea-pig, 95, 923
- , agonist potency in a range of isolated tissue preparations containing different 5-HT receptors, 94, 1123
- --- , bronchoconstrictor responses, induction of airway hyperreactivity in anaesthetized guinea-pig, 94, 663
- , comparison of fast and slow depolarizations evoked in guinea-pig coeliac ganglion cells in vitro, 93, 110
- —, contractile responses of rabbit aorta rings in the presence of cromakalim and isradipine, 95, 741
- depolarization-induced release from rat brain synaptosomes, mechanism of action of monoamine oxidase inhibitors, 95, 950
- , depressant effects in rat brainstem neurones, role for 5-HT₁-like receptors, 94, 492
- , effect of monoamine oxydase plus L-tryptophan on release in rat brain, 93, 303
- , effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- , estimation of dissociation constants, effect of acute densensitization, 95, 569
- , induction of contractions, effect of magnesium and potassium concentrations in canine isolated coronary artery, 94, 325
- , inhibition of rat ventromedial hypothalamic neurones in vitro, 95, 6
- , mediation of behaviour in rats and mice, effect of senktide, 94, 285
- , potentiation of release from synaptosomes by extracellular tryptophan, 93, 341

- , responses evoked in hemisected spinal cord of the neonate rat, 94, 1101
- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- 5-Hydroxytryptamine agonists, effect on responses of rat spinal motoneurones to raphé obscurus stimulation, 95, 437
- 5-Hydroxytryptamine antagonists, effect on responses of rat spinal motoneurones to raphé obscurus stimulation, 95, 437
- —, lack of effects on chronotropic responses to 5-HT in the pig, 93, 663
- 5-Hydroxytryptamine behavioural syndrome, relationship with extracellular 5-HT following monoamine oxidase inhibition and L-tryptophan, 93, 303
- 5-Hydroxytryptamine binding sites, comparison of changes with those of rat cortical GABA_B binding sites after chronic oral administration of antidepressants, 93, 331
- 5-Hydroxytryptamine₃ receptor antagonists, pharmacological properties, 94, 397
- , potential anxiolytic activity in 5 animal models, 93, 985
- 5-Hydroxytryptamine receptors, mediation of motoneurone response to 5-HT in spinal cord of neonate rats, 94, 1101
- , role in mediation of fast and slow depolarizations evoked in guinea-pig coeliac cells in vitro, 93, 110
- , subtypes, involvement in 5-HT-induced tachycardia in the pig, 93, 663
- 5-Hydroxytryptamine₁-like receptors, actions of GR43175 in dog saphenous vein, 94, 1123
- , contribution to the depressant effects of 5-HT on rat brainstem neurones, 94, 492
- , mediation of pertussis toxin-sensitive inhibition of rat ventromedial hypothalamic neurones in vitro, 95, 6
- 5-Hydroxytryptamine_{1A}-receptors, involvement in control of blood pressure, 95, 975
- 5-Hydroxytryptamine_{1e}-receptors, mediation of the behavioural effects of mCPP in rats, 94, 137
- 5-Hydroxytryptamine₂ receptors, activation by quipazine reduces food intake in rats, 95, 598
- —, contribution to depressant effects of 5-HT on rat brainstem neurones, 94, 492
- , differences in agonist dissociation constant estimated for 5-HT, effect of desensitization, 95, 569
- , identification in medullary brainstem of rats in vivo, 94, 483
- 5-Hydroxytryptamine₃-receptors, contribution to depressant effects of 5-HT on rat brainstem neurones, 94, 492
- 5-Hydroxytryptamine uptake, in relation to severe endothelial distress in dog isolated lung, 93, 791
- Hyoscine, effect on guinea-pig intestinal peristalsis, 93, 715—, effect on responses of guinea-pig myenteric plexus to
- glutamic acid, 95, 1271

 Hyperactivity, effect of intra-accumbens histamine adminis-
- tration in rats, 95, 1292

 Hyperalgesia, carageenin-induced in rats, effect of novel
- acetohydroxamic acids, 94, 574

 Hyperglycaemia, catecholamine-induced, role of α-
- adrenoceptors in conscious fasted rabbits, 94, 299

 Hyperlipidaemia, effect on endothelium-dependent relaxation in rabbit aorta, 94, 335
- Hyperphagia, effect of L364, 718 in rats, 93, 79

- **Hyperplasia,** benign prostatic, possible use of α_1 -adrenoceptor antagonists for treatment, **95**, 139
- Hyperpnoea, effect on control of alveolar surfactants in rat, 93, 473
- Hyperpolarization, ACh-induced in rat blood vessels with intact endothelium, 95, 1165
- , endothelium-dependent of canine coronary smooth muscle, role of sodium-potassium pump, 93, 515
- —, induced by pinacidil opening of potassium channels in rat mesenteric resistance vessels, 95, 103
- , produced by inhibitory substance released from endothelial cells by ACh in rat aorta, 94, 853
- Hyperpolarizing transients, evoked by ACh and histamine, role of K⁺-channels, 93, 319
- Hyperreactivity, indomethacin-induced to histamine, role of functional integrity of vagal reflex pathways, 94, 522
- Hypersensitivity, human skin, mediated by prostaglandin D₂, 94, 773
- Hypertension, effect of age on the action of aspirin in rats, 94.755
- —, effects of viprostol in the rat, 93, 613
- Hyperventilation, production by bencyclan in the rat, 95, 903
- Hypoactivity, effect of intra-accumbens histamine administration in rats, 95, 1292
- -, induction in rats by mCPP and TFMPP, 94, 137
- Hypoglycaemia, induction by oral administration of methyl palmoxirate in streptozotocin/alloxan-induced diabetic dogs, 94, 130
- Hypoglycaemic sulphonylureas, effect on potassium permeability of β -cell membrane of mouse islets, 93, 61
- Hypoketonaemia, induction by oral administration of methyl palmoxirate in streptozotocin/alloxan-induced diabetic dogs. 94, 130
- Hypotension, response to vasopressin peptides in rhesus monkey, 94, 759
- Hypotensive agents, inhibition of forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- Hypothalamus, rat, effects of cholecystokinin on neuronal activity in ventromedial nucleus, 94, 246
- , rat, 5-HT₁-like receptor mediation of pertussis toxinsensitive inhibition in vitro, 95, 6
- Hypoxia, augmentation of contractile responses in canine coronary arteries, effect of flunarizine, 95, 789
- , protective effects of slow channel inhibitors in the rat,
 95, 903

I

ICI 118551, effect on Paf lethality in mice, 93, 132

- , effect on the actions of α-adrenoceptor antagonists on cardiovascular responses in Long Evans and Brattlebro rats, 93, 9
- , use in the study of distribution of β-adrenoceptors in human internal mammary artery and saphenous vein,
 95, 225
- **Idazoxan**, effect on cardiovascular responses of Long Evans and Brattleboro rats, involvement of β_2 -adrenoceptor mediated mechanisms, 93, 9
- **Ileum**, guinea-pig, adrenergic modulation of the release of 5-HT, 95, 923
- -, guinea-pig, affinity of acetylenic analogues of 4-DAMP

- methobromide for muscarinic receptors, 94, 947
- —, guinea-pig, agonist activity of β-chlornaltrexamine, 95,
 234
- , guinea-pig, competitive antagonistic effect of Mandevilla velutina compounds on kinin-induced contractions, 94, 1133
- , guinea-pig, electrically-stimulated, effect of PD117302, 93, 618
- —, guinea-pig, role of neurokinin₃ receptors in inositol hydrolysis, 94, 148
- —, guinea-pig, physiological relevance of low agonist affinity binding at opiod μ-receptors, 94, 625
- guinea-pig, prejunctional muscarinic M₁ receptor interactions, lack of effect of cisapride, 94, 228
- —, guinea-pig isolated, alfaxalone potentiation and mimicking of GABA-induced contractile responses, 95, 33
- —, guinea-pig isolated, role for prostaglandins in the expression of morphine dependence, 93, 932
- , rat, contribution of galanin to non-cholinergic, nonadrenergic transmission, 94, 1241
- Imidazo 4,5-pyridines, comparative study of cardiovascular and biochemical actions in vivo in various species, 93, 387
- Imipramine, effect on N-methyl-p-aspartate receptors, 95,
- , effect on oxidative phosphorylation in rat liver mitochondria following in vivo treatment, 95, 914
- Immunosuppressants, effect on granuloma-induced cartilage degradation, 93, 627
- Indo-1, measurement of bradykinin-increased calcium in cultured endothelial cells, 95, 189
- Indomethacin, effect on ACh-induced electrical and mechanical responses in rat aorta and pulmonary artery, 95, 1165
- , effect on amount and specific activity of alveolar surfactants lavaged from lungs of resting and hyperpnoeic rats, 93, 473
- , effect on bronchoconstrictor stimuli in the guinea-pig, vagal mechanisms, 94, 522
- , effect on gastric mucosal release of eicosanoids in rats under basal conditions and after ethanol challenge, 93, 937
- , effect on naloxone-precipitated withdrawal contracture of the morphine-dependent guinea-pig ileum, 93, 932
- , effect on oubain-induced arrhythmias in guinea-pigs, 93, 747
- , effect on phenobarbitone enhanced endotheliumdependent relaxation to ACh in rat superior mesenteric arterial bed, 94, 977
- , effect on phospholipase A₂-induced hyperreactivity in rats, 94, 1057
- , effect on pressor responses of rat superior mesenteric arterial bed to arginine vasopressin, 95, 646
- , effect on response to antigen in guinea-pig isolated trachea, 95, 309
- , potentiation of endotoxin-induced blood flow reduction and histological injury in rat gastric mucosa, 93, 925
- , transepithelial diffusion in rat and rabbit colon, inhibitory effect on PGE₂, 95, 701
- Indorate, effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- Inflammation, effect of novel acetohydroxamic acids in rats

- and mice, 94, 547
- -- , role of bradykinin in the vascular permeability response in rats, 93, 739
- Inhibitory factor, bovine retractor penis, identification as nitrite, 93, 579
- , smooth muscle, effects on vascular and non-vascular smooth muscle, influence of haemoglobin and erythrocytes, 95, 1151
- Inhibitory junction potentials, effects of purines and xanthines in guinea-pig caecum circular muscle, 95, 653
- Inositol hydrolysis, involvement of neurokinin₃ receptors in guinea-pig ileum, 94, 148
- Inositol phosphates, effect of muscarinic receptor antagonists on accumulation in guinea-pig cortical slices, 93,
- , effect of NA, Ad, phenylephrine and mono-fluorinated NAs on stimulation of formation, 95, 1133
- , identification after extraction from rat resistance arterioles, 94, 363
- , role in regulation of intracellular Ca²⁺ concentration in myometrial cells of the rat. 95, 284
- —, stimulatory and inhibitory actions of excitatory amino acids on metabolism in rat cerebral cortex, 95, 131
- Inositol phospholipids, effect of procaterol in smooth muscle cells of dog trachea, 93, 199
- , histamine-stimulated hydrolysis in bovine tracheal smooth muscle, 95, 1204
- Inotropic effects, Bay K 8644-induced, blockade by cytochalasin-B and phloretin in rabbits, 94, 552
- carbachol-induced in rat atria treated with IAP, association with phosphatidyl-inositol breakdown, 94, 347
- , of cardiac glycosides varies with their lipohilicity in guinea-pig, 93, 281
- , of cardiotonic steroids in guinea-pig heart muscle preparations, 93, 281
- —, of ciguatoxin on guinea-pig cardiac muscle, 95, 876
- , of dihydropyridine derivative 202-791 in guinea-pig papillary muscles, 95, 1125
- , of ouabain, dissociated from binding by diffusion characteristics in guinea-pig myocardium, 95, 399
- , of striatoxin in guinea-pig and rat isolated cardiac muscle, 95, 867
- , positive, induction by celiprolol in conscious dogs, 93, 501
- , positive, 3-isobutyl-1-methylxanthine-induced in papillary muscles, inhibition by adenosine, 93, 729
- positive and vasodilator effects of SK&F 94836 in cats and dogs, 93, 893
- Insulin, catecholamine-induced secretion, role of α -adrenoceptors in conscious fasted rabbits, 94, 299
- , effect of sulphonylureas and diazoxide on secretion in an insulin-secreting cell line, 95, 83
- , glucose- and tolbutamide-induced release in man, effects of bombesin, 94, 1023
- Stimulation of release by AZ-DF 265 in mouse pancreatic β-cells, 93, 61
- Interleukin-1, induction of neutrophil accumulation, need for local protein biosynthesis and neutrophil CD18 antigen expression in vivo, 94, 1143
- , induction of a pattern of leucocyte infiltration and cartilage proteoglycan loss similar to immune arthritis in rabbit, 95, 169

- Interleukin 1, and 2, effect on spontaneous developing responses of rabbit isolated aorta to des-Arg⁹-bradykinin. 93, 969
- Internal perfusion, of calcium or 4-aminopyridine, effects on transient outward currents of Helix, central neurones, 95, 526
- Intestinal bulb, carp, presence of a substance P-like peptide in acid extract, 95, 39
- Intestinal motility, effect of McN-A-343 in conscious dogs, 94, 566
- Intestinal viscera, reflex circulatory responses as an index of opioid-induced antinociception in anaesthetized and conscious animals, 95, 275
- Intestine, guinea-pig, effect of M₁-muscarinic ACh receptor blockade on peristalsis, 93, 715
- Intramural nerve stimulation, development of noncholinergic, non-adrenergic excitatory and inhibitory responses in rat stomach, 93, 684
- Intrinsic activity, estimation by comparison of antagonist potencies of agonist-antagonists in 55°C hot plate test with ED₅₀ values in abdominal constriction assay, 95, 578
- [125] iodopindolol radioligand binding, characterization of rat liver β-adrenoceptors during perinatal development, 93, 817
- Ion permeability, palytoxin-induced, mechanism in guineapig ventricular mocytes, 93, 811
- Ion transport, involvement of afferent nerve terminals in stimulation by bradykinin in rat isolated colon, 94, 47
- Ionic channels, single, induction by palytoxin in guinea-pig ventricular myocytes, 93, 811
- Ionic fluxes, effect of AZ-DF 265 in the mouse, 93, 61
- Ionophore A23187, effect on contractility of human isolated internal mammary artery, 95, 531
- , vasodilator responses in guinea-pig isolated perfused heart are independent of prostacyclin, 95, 379
- Iris sphincter, isolated, mechanism of action of nicotine in rabbits, 95, 459
- Isatin, inhibition of glucokinase in pancreatic B-cells and liver, 95, 851
- Ischaemia, effect of damage on hippocampal levels of [3H]-MK-801 binding sites, 93, 948
- —, induction of arrhythmias, effect of ajmaline in rats, 93,
- , simulated, protection of rat atrial myocardium against electrical, mechanical and structural aspects of injury, 94, 1207
- Islet-activating protein, treatment of rat atria, carbacholinduced poritive inotropic effects, 94, 347
- Isobutylmethylxanthine, effect on response to antigen in guinea-pig trachea, 95, 309
- , induction of positive inotropic effects in guinea-pig papillary muscles, inhibition by adenosine, 93, 729
- Isoflurane, effect on stimulus-secretion coupling in bovine chromaffin cells, 95, 209
- Isoguvacine, effect on membrane conductance in locust, 95, 713
- **Isonipecotic acid,** effect on muscle membrane conductance in locust, **95**, 713
- Isoprenaline, effects in hearts of conscious dogs, effect of celprolol, 93, 501
- , effects on ACh release in rat superior cervical ganglion, 93, 399

- , effects on histamine-stimulated inositol phospholipid hydrolysis in bovine tracheal smooth muscle, 95, 1204
- -, effects on Paf lethality in mice, 93, 132
- , effects on response to caffeine in chipmunk myocardium in the absence of ryanodine, 95, 1287
- , induction of enhanced neurally-evoked transmitter output from rat phrenic nerve, 94, 669
- Isoprenaline stimulation, production of regional myocardial contractile dysfunction in dogs, effect of nitroglycerin, 95, 1141
- Isradipine, anti-vasoconstrictor effects on rabbit aorta, comparison with cromakalim, 95, 741
- , effect on the actions of vasoactive agents in normal and atherosclerotic conscious rabbits, 95, 1075

K

- Kainate, effect on amino acid release from rat cerebral cortex in vivo and in vitro, 93, 868
- —, quantitative study of the actions in rat hippocampal slices, 95, 291
- Kainate receptors, selective blockade by quinoxalinediones in rat neocortex and hippocampus and frog spinal cord. 95. 585
- Ketamine, effect on Ca²⁺ influx into cultured cortical neurones, 95, 95
- , effect on NDMA and synaptic responses of neurones in the rat ventrobasal thalamus, 94, 443
- , effect on veratridine-induced K⁺-efflux, membrane depolarization and amino acid neuro-transmitter release in rat brain synaptosomes, 94, 871
- Ketanserin, effect on depressant responses to 5-HT in rat brainstem neurones, 94, 492
- -, effect on rat brainstem neurones in vivo, 94, 483
- Ketoprofen, effect on ouabain-induced arrhythmias in guinea-pigs, 93, 747
- Kidney, dog and cat, effects of flosequinan, 94, 371
- , rat, effect of EDRF on action of vasodilator drugs on vascular resistance, 95, 835
- —, rat isolated, differential effect of ω -conotoxin on adrenergic transmitter release and vasoconstrictor response to NA in rat isolated kidney, 94, 335
- Kinins, secretory effects on colonic epithelium in relation to prostaglandins released from cells of the lamina propria, 95, 701
- —, sensitization of rabbit aorta to, 93, 969
- Kynurenic acid, bimolecular action, evidence from an extension of Hill and Gaddum-Schild equations, 95, 805
- , effects on aspartate and glutamate release from rat hippocampal slices, 93, 863
- , effects on responses evoked by excitatory amino acid agonists in vitro in mouse neocortex, 93, 693
- —, quantitative study of actions in rat hippocampal slices, 95, 291

L

- L-363, 301, inhibitory effect on rat anococcygeus muscle in vitro, 94, 87
- L-363,586, inhibitory effect on rat anococcygeus muscle in vitro, 94, 87
- L364,718, increases food intake in rats by attentuation of

- the action of endogenous cholecystokinin, 93, 79
- Labetolol, effect on amount and specific activity of alveolar surfactants lavaged from lungs of resting and hyperpnoeic rats, 93, 473
- **Lead,** perinatal exposure alters the development of δ and not μ -opioid receptors in rat brain, 94, 993
- Left ventricle pressure, effect of celiprolol in conscious dogs, 93, 501
- Leucocyte infiltration, in relation to cartilage degradation in immune arthritis in the rabbit, 95, 169
- Leucocytes, rabbit, characterization of receptors for Paf, 94, 1225
- -, rat, effect of novel acetohydroxamic acids, 94, 574
- Leukaemia lymphoblasts, murine, comparative uptake, retention and action of vinca alkaloids, 93, 902
- Leukotriene B₄, effect of acetohydroxamic acids on synthesis in vitro and ex vivo, 94, 528
- —, effect of novel acetohydroxamic acids in rats, 94, 547
- , effect on intracellular calcium ion concentrations in U397 cells, 93, 769
- Leukotriene C₄, effects of non-steroidal antiinflammatory drugs in relation to ethanol-induced injury, 93, 937
- , induction of release of tissue-type plasminogen activator in rat isolated hindleg system, 93, 156
- , inhibition of release in anaphylactic guinea-pig hearts by 5-lipoxygenase inhibitor, CGS 8515, 95, 1322
- Leukotriene D₄, effects on mechanical and electrical properties of guinea-pig isolated trachealis, 94, 729
- , effects on mechanical properties of guinea-pig basilar artery, 93, 591
- , induction of release of tissue-type plasminogen activator in rat isolated hindleg system, 93, 156
- Leukotriene dependent anaphylactic bronchoconstriction, effect of novel acetohydroxamic acids in guinea-pigs,
- Leukotriene receptor antagonists, effect on ozone-induced reactivity in guinea-pig airway, 94, 938
- Leukotriene D₄ receptor antagonists, effect on response to antigen in guinea-pig trachea, 95, 309
- Leukotriene receptors, mediation of contraction of guineapig trachea, 95, 309
- Leukotrienes, involvement in Paf-induced bronchoconstriction or contraction of lung parenchymal strip or airway responsiveness to histamine, 94, 1115
- roles as mediators of gastric mucosal damage following ethanol challenge in vivo, 95, 155
- Lidoflazine, effect on beating of primary cultures of chick heart cells, 95, 771
- , protective effects against ischaemic injury in the hippocampus of the Mongolian gerbil, 93, 877
- Lipoxygenase inhibitors, mechanism of action in blocking endothelium-dependent vasodilatation, 93, 569
- Ligand binding, examination using muscarinic receptor antagonists in guinea-pig cardiac and cortical tissues, 93, 491
- Ligandin, binding of dibromosulphophthalein to in rats with acute renal failure, 95, 343
- Lipocortin, role in the mechanism of action of glucocorticoids, 94, 987
- **Lipolysis**, catecholamine-induced, role of α -adrenoceptors in conscious fasted rabbits, **94**, 299
- Lipophilicity, of cardiotonic steroids in guinea-pig isolated heart muscle, 93, 281

- Lipoxin A₄, contractile activities for guinea-pig airway tissues, 95, 562
- Lipoxin B₄, contractile activities for guinea-pig airway tissues, 95, 562
- Lipoxygenase, effect on anti-inflammatory drugs on formation in a chronic model of inflammatory bowel disease, 94, 65
- 5-Lipoxygenase inhibitors, effect of novel acetohydroxamic acids on bronchial anaphylaxis in guinea-pigs, 94, 540
- , effect on response to antigen in guinea-pig trachea, 95, 309
- , failure to prevent ethanol-induced gastric damage, 95, 155
- —, inhibition of leukotriene release in anaphylactic guinea-pig hearts, 95, 1322
- Lisyl-bradykinin, induction of contractions in rat uterus or guinea-pig ileum in vitro, effects of Mandevilla velutina compounds, 94, 1133
- Lithium clearance, effect of furosemide in conscious rats, 95, 353
- Liver, human, morphine UDP-glucuronyl transferase enantioselectivity and inhibition by opioid congeners and oxazepam, 94, 864
- mechanism underlying interactions between glucose and alloxan competing for sugar binding site of glucokinase, 95, 851
- —, rabbit, effects of coumarins on the clearance of vitamin K₁, 94, 1077
- -- , rat, characterization of β-adrenoceptors during perinatal development, radioligand binding assays, 93, 817
- , vascular action of neuropeptide Y and peptide YY on the arterial and portal beds of the anaesthetized dog, 94, 1149
- LND 623, electrical and mechanical effects on guinea-pig isolated ventricular muscle, 95, 1063
- LND 796, electrical and mechanical effects on guinea-pig isolated ventricular muscle, 95, 1063
- Locus coeruleus, effects of microinfusion of clonidine and yohimbine, effects of aging, 95, 1278
- Lung, guinea-pig, effect of captopril on bradykinin-induced release of PGI₁, 95, 783
- —, guinea-pig sensitized, release of arachidonic acid metabolites and histamine following antigen challenge, 93, 751
- rat, effect of acute injury on metabolism of adenine nucleotides, 94, 1029
- —, rat, effect of monocrotaline-induced injury on the ability to metabolize vasoactive autocoids, 94, 1167
- , rat, modification by steroids of oedema and prostaglandin E₂ pharmacokinetics induced by endotoxin in rats, 93, 955
- Lung injury, monocrotaline-induced, effect on function of pulmonary endothelium in the rat, 94, 1175
- Lung lavage, monitoring of mild inflammatory response to ozone in guinea-pig, 94, 938
- LY253352, stereospecificity for α_1 -adrenoceptor binding sites in canine brain and human prostate, 95, 139
- Lymphatic vessels, bovine, modification of [3H]-NA release from sympathetic nerves by α-agonists and antagonists, 94, 823
- Lymphocytes, contrasting in vitro lymphocyte activity of enantiomers of 12-hydroxy-5,8,10,14-eicosatetraenoic acid, 95, 966

- Lysophosphatidylcholine, induction of arrhythmias, accumulation in rat perfused heart, 93, 412
- Lysophosphatidylserine, stereoselective effects in rodents, 93, 647
- Lysozyme, induction of increased output by methacholine and phenylephrine, effect of peptide histidine isoleucine and neuropeptide Y in ferret trachea, 95, 49

M

M320, effect on timing of parturition in rats, 95, 777

Macrophages, inhibition of production of superoxide anions by Ro 19-3704 in guinea-pig, 94, 27

 , role of Paf-receptors in generation of prostacyclin in guinea-pig, 94, 1225

Magnesium, effect on ⁸⁶Rb uptake in human atrial cell line, **95**, 614

- , importance of concentrations on basal tone and 5-HT contractions in canine isolated coronary artery, 94, 325
- —, quantitative study of actions in rat hippocampal slices, 95, 291

Magnesium ion, inhibitory action at frog motor nerve terminals, effect of reduced temperature, 93, 839

Mammary artery, human internal, autoradiographic localization and function of β -adrenoceptors, 95, 225

 , human isolated internal, modulatory role on contractility of vascular endothelium, 95, 531

Mandevilla velutina compounds, competitive antagonistic effect on kinin-induced contractions of rat uterus and guinea-pig ileum in vitro, 94, 1133

Manganese, effect on membrane hyperpolarization produced by cromakalim in smooth muscle cells of guinea-pig mesenteric artery and vein, 95, 795

Mannoheptulose, protection against inhibition by alloxan by binding to the active site of the enzyme, 95, 851

Mast cells, action of vasopressin-like peptides in rhesus monkey, 94, 759

- human dispersed skin, characterization of neuropeptide-induced histamine release, 95, 121
- , rodents, lysophosphatidylserine-induced activation, 93, 647
- McN-A-343, antagonism of inibitory effects by cisapride in guinea-pig ileum, 94, 228
- , effect of aging on potency on bovine tracheal smooth muscle, 93, 918
- , effect on smooth muscle function and phosphatidylinositol turnover in guinea-pig taenia caecum, 94, 199
- MDL 72222, effect on depressant responses to 5-HT in rat brainstem neurones, 94, 492
- -, effect on rat brainstem neurones in vivo, 94, 483
- Mechanical properties, regional differences in rabbit airway smooth muscle, 94, 389

Mefenamic acid, effect on naloxone-precipitated withdrawal contracture of the morphine-dependent guineapig ileum, 93, 932

Melperone, electrophysiological effects on isolated rabbit heart muscles, 94, 1063

Membrane, depolarization and resistance, effects of α,β -methyl ATP in chicken rectum, 94, 9

Membrane conductance, effect of GABA receptor agonists

and antagonists in Schistocerca gregaria, 95, 713

Membrane currents, effect of nizofenone fumarate in rabbit sino-atrial node in vitro, 95, 1175

Membrane depolarization, effects of benztropine, atropine and ketamine in rat brain synaptosomes, 94, 871

 production in longitudinal muscle of chicken rectum by ATP applied by pressure ejection, 95, 1157

Membrane hyperpolarization, production by cromakalim in smooth muscle cells of guinea-pig mesenteric artery and vein, 95, 795

Membrane noise, evoked by ACh and histamine, role of K⁺-channels, 93, 319

Membrane potentials, β -cell, effect of AZ-DF 265 in pancreatic cells of the mouse, 93, 61

- , changes in response to ATP applied by pressure ejection in the longitudinal muscle of chicken rectum, 95, 1157
- , effect of ACh-released EDRF from canine femoral artery on coronary arterial smooth muscle, 93, 515
- -, effect of endothelium removal in rat aorta, 94, 853
- , effect of nizofenone fumarate in rabbit sino-atrial node in vitro, 95, 1175

Mephenesin isomers, effects on response to pressure and the convulsant action of strychnine in the mouse, 94, 1069

Mepyramine, binding to histamine H₁ receptors, comparison with [³H]-QMPD, 94, 797

- , blockade of contractions of tracheal smooth muscle by histamine and SKF 71481, 95, 551
- , effect on histamine-induced hyperactivity in rat, 95, 1291

[³H]-Mepyramine, comparison of kinetics of binding with those of [³H]-(+)-N-methyl-4-methyl-diphenhydramine, 94, 811

Mesenteric arterial bed, rat perfused, effect of detergent and methylene blue on endothelium-dependent vasorelaxation and pressure/flow relations, 95, 1081

Mesenteric artery, dog, modification of contractile responses to transmural stimulation and noradrenaline by thromboxane B₂ and epithio-methanothromboxane A₂, 93, 367

—, rat, effect of viprostol, PGE₂ and nitroglycerin, 93, 613

 rat, selective modulation by membrane potential of some calcium entry blockers with calcium channels, 95, 252

Mesenteric bed, rat, P₂-purinoceptor subtype mediated actions, 95, 637

Mesenteric resistance arteries, effects of ryanodine on tension development in the rat, 95, 605

Mesenteric vein, rat, effect of viprostol, PGE₂ and nitroglycerin, 93, 613

Mesentery, rat, effect of EDRF on action of vasodilator drugs on vascular resistance, 95, 835

Metaclopramide, action on stimulated striatal and limbic dopamine release, 94, 924

Metergoline, effect on depressant responses to 5-HT in rat brainstem neurones, 94, 492

 , effect on hypoactivity-induced by mCPP and TFMPP in rats, 94, 137

Methacholine, inhibition of [3H]-NA release on rabbit iris in vitro, 94, 890

 , investigation of negative inotropic effects in electrically driven chicken and guinea-pig hearts, 93, 357

Methoctramine, interaction with himbacine at atrial,

- smooth muscle and endothelial muscarinic receptors in vitro, 95, 1031
- Methoxamine, effects on the guinea-pig taenia caecum, 94, 557
- Methoxyflurane, effect on stimulus-secretion coupling in bovine chromaffin cells, 95, 209
- 5-Methoxytryptamine, induction of depolarizations in spinal cord of neonate rats, 94, 1101
- Methoxyverapamil, anticonvulsant effects in DBA/2 mice, 93, 247
- N-Methyl-D-aspartate, antagonism in rat ventrobasal thalamus by ketamine and MK-801, 94, 443
- , bimolecular action, evidence from an extension of Hill and Gaddum-Schild equations, 95, 805
- , comparison of potent and competitive antagonist in vivo and in vitro activity, 95, 957
- , effect on amino acid release from rat cerebral cortex in vitro and in vivo, 93, 868
- , induction of contractions in guinea-pig myenteric plexus, 95, 1271
- , potent antagonist activity of CGS 19755 in rat brain,
 95, 932
- —, quantitative study of the actions in rat hippocampal slices, 95, 291
- N-methyl D-aspartate receptors, association with [3H]-MK-801 binding sites in mammalian brain, 93, 948
- -, presence on guinea-pig myenteric plexus, 95, 1271
- , use of antagonists to assess their role in central synaptic function, 95, 957
- Methyl 6,7-dimethoxy-4 ethyl-β-carboline-3-carboxylate, interactions with Ro 15-4513 in mice, 93, 210
- S(+)-α-methyl-5-hydroxytryptamine, induction of depolarizations in spinal cord of neonate rats, 94, 1101
- [³H]-(+)-N-methyl-4-methyldiphenhydramine, potential quaternary radioligand for histamine H₁ receptor, 94, 797
- , temperature dependence of kinetics of binding to histamine H₁ receptor, 94, 811
- Methyl palmoxirate, hypoglycaemic and hypoketonaemic effects of oral administration in streptozotocin/alloxan-induced diabetic dogs, 94, 130
- 1 Methyl-4-phenyl-pyridinium, in vitro model of toxicity in rabbit, 95, 449
- N-methylatropine, blockade of inhibitory effect of McN-A-343 in conscious dogs, 94, 566
- 4-Methyldiphenhydramine derivatives, potential quaternary radioligands for histamine H₁ receptor, 94, 797
- α-Methyldopa, production of mydriasis in the rat by stimulation of CNS α₂-adrenoceptors, 94, 834
- α,β-Methylene adeaosine triphosphate, effect on nifedipine attenuation of vasopressor responses in pithed rat, 95, 695
- Methylene blue, effect on ACh-induced electrical and mechanical responses in rat aorta and pulmonary artery, 95, 1165
- , effect on endothelium-dependent vasorelaxation and pressure/flow relations in rat blood perfused mesenteric arterial bed, 95, 1081
- , inhibition of effects of ionophore A23187 and ACh on contractility of human isolated internal mammary artery, 95, 531
- , effect on pressor responses of rat superior mesenteric arterial bed to arginine vasopressin, 95, 646

- Methylflavonolamine hydrochloride, inhibition of contractions induced by NA, Ca²⁺ and potassium in rabbit aortic isolated aortic strips, 94, 1184
- 5-Methylurapidil, effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- Methysergide, effect on depressant responses to 5-HT in rat brain neurones, 94, 492
- , effect on phospholipase A₂-induced airway hyperreactivity in rats, 94, 1057
- -, effect on rat brainstem neurones in vivo, 94, 483
- Metoprolol, effect on Paf lethality in mice, 93, 132
- —, selective regulation of β_1 and β_2 -adrenoceptors in human heart, **94**, 685
- Mexiletine, electrophysiological mechanism for the antiarrhythmic action in guinea-pig isolated heart, 95, 1039
- Mianserin, effect on hypoactivity-induced by mCPP and TFMPP in rats, 94, 137
- Microangiographic study, of effect of EDRF on resistance vessels in rabbit ear, 93, 654
- Microspheres, use in comparison of haemodynamic effects of nitroprusside, acetylcholine and bradykinin in the anaesthetized rat, 95, 986
- Microvascular constriction, induced by endothelin in rabbit skin, 95, 1005
- Microvascular endothelium, protein biosynthesis in interleukin-1-induced neutrophil accumulation in vivo, 94, 1143
- Microvascular leakage, guinea-pig airways, effect of WEB 2086, 94, 164
- Microvascular permeability, effects and interactions of sensory neuropeptides in guinea-pig. 95, 1109
- Midazolam, effect on nociception and on morphineinduced antinociception in rats, 93, 964
- Miniature endplate potential amplitude, effect of vesamicol in frog nerve muscle preparations, 93, 759
- , induction of frequency changes by crotoxin in frog muscle, 94, 765
- Miosis, role of tachkinins in the mediation in rabbit eye, 95, 259
- Misoprostol, action on guinea-pig smooth muscle and platelets, 94, 591
- Mitochondria, rat liver, effect of prolonged in vivo treatment with imipramine on oxidative phosphorylation, 95, 914
- MK-801, effect on aspartate and glutamate release from rat hippocampal slices, 93, 863
- , effect on NDMA and synaptic responses of neurones in rat ventrobasal thalamus 94, 443
- [3H]-MK-801 binding, effect of tricyclic antidepressants, 95, 95
- , quantitative autoradiography of binding sites in mammalian brain, 93, 948
- Monoamine oxidase inhibitors, effect on calcium dependency of 5-HT release from rat brain synaptosomes, 95, 950
- , plus L-tryptophan, effect on extracellular 5-HT and behaviour, 93, 303
- Monoaminergic nerve terminals, site for MPP + toxicity in rabbit caudate nucleus slices, 95, 449
- Monocrotaline, induction of lung vascular injury, effect on function of pulmonary endothelium in the rat, 94, 1175
- -, induction of lung vascular injury in rats, effect on

vasoactive autocoids in pulmonary circulation, 94, 1167

- Morphine, attenuation of excitation of dorsal horn neurones by noxious stimuli, lack of effect on inhibition in rats. 94, 185
- --- , comparison of peripheral and central effects with those of BW443C in the mouse, 93, 85
- , effect on cough, nociception and ventilation in the unanaesthetized guinea-pig, 93, 93
- , effect on non-cholinergic neural bronchoconstriction in guinea-pigs, 95, 413
- , effect on nociceptive thresholds to noxious mechanical and thermal stimuli after i.v., i.v.c. and intrathecal administration in conscious rats, 93, 553
- —, effect on [³H]-noradrenaline overflow in mouse vas deferens, 93, 35
- , effect on ventricular concentrations in rats subjected to acute myocardial ischaemia, 93, 723
- , induction of inhibition of spinal nociceptive reflex, effects of benzodiazepine receptor agonists, antagonists and inverse agonist in rats, 93, 964
- production of antinociception and physical dependence in rats, 95, 15
- , role for prostaglandins in the expression of dependence in guinea-pig isolated ileum, 93, 932
- withdrawal in cortical slices, suppression by Ca²⁺channel inhibitors of abstinence-induced [³H]-noradrenaline release, 93, 535
- Morphine uridine diphosphate glucuronyl transferase, enantioselectivity and inhibition by opioid congeners and oxazepam in human liver, 94, 864
- Morphine withdrawal, capsaicin pretreatment reduced increase in ACTH in rats, 94, 647
- Motor nerve terminal activity, effect of potassium channel blocking dendrotoxins on release in various species, 93, 215
- Motor nerve terminals, effect of charybdotoxin in mouse and frog, 95, 1329
- Motor nerves, mouse and frog, potassium channel blocking actions of β -bungarotoxin and related toxins, 94, 839
- —, rat, β-adrenoceptor stimulation enhances transmitter output, 94, 669
- Mouse air pouch model, modification for evaluating the effects of compounds on granuloma induced cartilage degradation, 93, 627
- Mucosal damage, induction in rats by endothelin, 95, 1101
- Mucus, effect of peptide histidine isoleucine and neuropeptide Y on volume output from ferret trachea, 95, 49
- , flow rate in ferret trachea in vitro in response to methacholine, phenylephrine and salbutamol, 94, 293
- Muscarine, effect of aging on potency on bovine tracheal smooth muscle, 93, 918
- Muscarine autoreceptor, mediation of inhibition of tritium overflow in rabbit hippocampus, 93, 525
- Muscarinic acetylcholine receptors, activation, autoregulation of ACh release from vagus nerve terminals in dog trachea, 93, 636
- , affinity of some acetylenic analogues of 4-DAMP in guinea-pig ileum and atria, 94, 947
- , changes of properties and coupling during aging in bovine trachealis muscle, 93, 918
- , characterization of subtypes of those involved in McN-A-343-induced effects on intestinal motility and

- heart rate in conscious dogs, 94, 566
- G-protein mediation of responses in several tissues, 95, 325
- , interaction of methoctramine and himbacine on guinea-pig and rat trachea, oesophagus and cardiac tissues, 95, 1031
- , investigation of their presence on cholinergic nerves and atrial cells of chicken and guinea-pig hearts, 93, 357
- , measurement of efficacy of novel compounds using NMS/Oxo-M ratio, 93, 437
- , mediation of carbachol-induced contractions in guinea-pig taenia caecum, 94, 882
- —, mediation of voltage-independent catecholamine release in guinea-pig adrenal glands, 93, 101
- Muscarinic M₁ acetylcholine receptors, assessment of dicyclomine affinity in guinea-pig ileum, 94, 1270
- , effect of blockade on guinea-pig intestinal peristalsis,
 93, 715
- , location on guinea-pig olfactory cortex, mediation of the N-wave, 93, 855
- , prejunctional interactions on guinea-pig ileum, lack of effect of cisapride, 94, 228
- Muscarinic M₂-acetylcholine receptors, assessment of dicyclomine affinity in guinea-pig ileum, **94**, 1279
- , effect of activation on potassium conductance in rat lateral parabrachial neurones, 95, 896
- Muscarinic agonists, effects on smooth muscle function and phosphatidylinositol turnover in guinea-pig taenia caeci, 94, 199
- , inhibition of [³H]-NA release on rabbit iris in vitro, 94, 890
- , potency remains unchanged on aging in bovine tracheal smooth muscle, 93, 918
- quantitative effects on evoked surface-negative field potentials recorded from the guinea-pig olfactory cortex slice, 93, 846
- Muscarinic antagonists, correlation between pK_B estimates and lipophilicity, 94, 264
- , effect on guinea-pig olfactory cortex slice, quantitative study, 93, 855
- , functional and direct binding studies, in guinea-pig heart and cortex, 93, 491
- Muscarinic transmission, mediation through M₁-receptors stimulating release of ACh in chicken heart, 93, 357
- Muscimol, effect on muscle membrane conductance in locust, 95, 713
- Muscle weakness, induction by dantrolene sodium in decerebrate rat, 93, 257
- Muscles, rabbit heart, electrophysiological effects of melperone, 94, 1063
- Mustard oil, excitation of nociceptive dorsal horn neurones in rats, 64, 180
- Mydriasis, production in rat by α -methyldopa stimulation of CNS α_2 -adrenoceptors, 94, 834
- Myelinated nerve fibres, interactions between molecules of alphaxalone and ionic channels of nodal membrane, 94, 635
- Myenteric plexus, guinea-pig, effects of agonists, antagonists and modulators of excitatory amino acids, 95, 1271
- , guinea-pig, measurement of muscle contractions induced by endogenous agonists, 95, 1270

- Myocardial conduction, effects of RS 43285 in the anaesthetized dog. 93, 375
- Myocardial dysfunction, regional, produced by treadmill exercise or isoprenaline stimulation in dogs, effects of nitroglycerin, 95, 1141
- Myocardial infarction, acute, effect of pentoxifylline on infarct size, 93, 587
- Myocardial ischaemia, cardioprotective actions of human superoxide dismutase in two reperfusion models, 95, 735
- , effect of pretreatment with bisprolol in anaesthetized pigs, 95, 361
- mechanism of action of calcium antagonists on arrhythmias, 94, 1275
- —, possible role for nisoldipine in conscious pigs, 94, 219
- Myocardial performance, effects of oral nisoldipine in conscious pigs, 94, 219
- Myocardium, effect of bisprolol on perfusion and function in anaesthetized pigs, 95, 361
- , guinea-pig, diffusion characteristics dissociate ouabain binding from inotropic effect, 95, 399
- , guinea-pig ventricular, inotropic and toxic effects of new aminosteroids, 95, 1063
- , hibernating chipmunk, comparison of the effects of caffeine and ryanodine on electromechanical coupling, 95, 1287
- Myocytes, guinea-pig ventricle, effects of halothane, 94, 500 Myo-inositol, dietary, effect in streptozotocin-diabetic rats, 93, 3
- Myometrial responses, involvement of α -adrenoceptors in pro-oestral rat, 93, 185
- Myometrium, pregnant rat, properties of intracellular calcium stores, 95, 284

\mathbf{N}

Nadolol, effect on Paf lethality in mice, 93, 132

- , use in characterization of putative adrenoceptor in guinea-pig ileum, 95, 723
- Naloxone, action on the depolarization-induced release of [3H]-NA in naive or dependent rats, 93, 535
- , effects on gastric excitatory responses to stimulation of vagus nerve in cats, 95, 329
- reversal of inhibition of catecholamine output by low frequency stimulation in canine adrenal medulla, 93, 383
- α-Naphthylthiourea, induction of acute lung damage, effect on metabolism of adenine nucleotides in rat, 94, 1029
- Nasal mucosa, human, application of capsaicin, induction of nasal secretion, pain and sneezing, 93, 509
- Natriuresis, effects of amlodipine in normotensive and SH rats, 94, 311
- Nedocromil sodium, effect on bronchoconstriction and airway cellular infiltration provoked by ovalbumin inhalation in conscious sensitized guinea-pigs, 94, 6
- -, effect on citric acid-induced cough in dogs, 93, 609
- Neocortex, mouse, quantitative pharmacological analysis of some excitatory amino acid receptors in vitro, 93, 693
- Neonatal development, characterization of rat liver β -adrenoceptors as determined by [125]-iodopindolol radioligand binding assays, 93, 817
- Neostigmine, effect on ACh receptor-ionophore complex in

- frog isolated sympathetic neurones, 94, 620
- , induction of tetanic fade, reduction by tubocurarine, choline and hexamethonium in mouse phrenic nervediaphragm preparations, 95, 1255
- Neosurugatoxin, effect on evoked catecholamine secretion from bovine adrenal chromaffin cells, 93, 275
- Nerve stimulation, effect on release of betaxolol from heart of anaesthetized dog, 95, 683
- Nerves, gut, mediation of increased absorption effect of neurotensin, 94, 121
- Neuro-effector transmission, effects of pirenzepine and gallamine in dog trachea, 93, 636
- Neuroblastoma N1E-115 cells, effect of bradykinin analogues, 94, 3
- Neurocytoprotection, in ischaemia in Mongolian gerbil, 93, 877
- Neurogenic vasoconstriction, effect of angiotensin II in pithed rats, 95, 1229
- Neurokinin A, effect in canine tracheal vasculature in vivo, 95, 1262
- , effect on microvascular permeability in guinea-pig airways, 95, 1109
- -, induction of salivation in ferret, 94, 707
- —, possible involvement in ocular response to injury in the rabbit, **95**, 259
- [125] neurokinin A, binding in rat cortex synaptic membranes, 94, 602
- Neurokinin B, effect on microvascular permeability in guinea-pig airways, 95, 1109
- , possible involvement in ocular response to injury in the rabbit, 95, 259
- Neurokinin₃ receptors, involvement in inositol phospholipid hydrolysis in guinea-pig ileum, 94, 148
- Neurokinins, induction of contractions of guinea-pig trachea, effects of epithelium removal or thiorphan, 94,
- Neuroleptic drugs, action on stimulated striatal and limbic dopamine release, 94, 924
- Neuromuscular block, induced by vesamicol in rat and frog muscle, 93, 759
- Neuromuscular junction, action of GABA receptor agonists and antagonists in Schistocerca gregaria, 95, 713
- —, action of β -bungarotoxin in the mouse to blockade ACh release, 94, 839
- , effect of reduced temperature on the inhibitory action of adenosine and magnesium ion in the frog, 93, 839
- , experiments to elucidate the site of repetitive activity after anticholinesterase, 94, 169
- , frog, early induction by crotoxin of biphasic frequency changes and giant m.e.p.ps in frog muscle, 94, 765
- , mouse, zinc-stimulated spontaneous transmitter release, 93, 430
- Neuromuscular transmission, effect of potassium channel blocking dendrotoxins on release in various species, 93, 215
- Neuronal activity, effects of cholecystokinin in the ventromedial nucleus of the rat hypothalamus, 94, 246
- Neurones, mouse cerebral hemisphere and spinal cord, effects of non-sedative anxiolytic drugs on responses to GABA and diazepam-induced enhancement of these responses, 95, 109
- Neuropeptide Y, action on the hepatic arterial and portal vascular beds of the anaesthetized dog, 94, 1149

- -, effect in canine tracheal vasculature in vivo, 95, 1262
- —, effect on mucus volume output from ferret trachea, 95,
- --- , evoked by sympathetic nerve stimulation in dog skeletal muscle, 94, 952
- modulation of cholinergic neurotransmission in guinea-pig trachea, 93, 672
- potentiation of vasoconstriction in rat resistance arteries, 95, 419
- Neuropeptides, effects on canine tracheal vasculature in vivo, 95, 1262
- , induction of histamine release from human dispersed skin mast cells, characterization, 95, 121
- , sensory, effects and interactions on airway microvascular leakage in guinea-pigs, 95, 1109
 Neurotensin, induction of ileal sodium transport in the dog.
- effects of atropine and tetrodotoxin, **64**, 121

 —, induction of negligible histamine release in human skin
- , induction of negligible histamine release in human skin mast cells, 95, 121
- Neurotoxins, blocking actions on potassium channels on mouse and frog motor nerve terminals, 94, 839
- Neurotransmission, inhibition by adenosine in rat diaphragm, 94, 109
- Neurotransmitter release, effects of benztropine, atropine and ketamine in rat brain synaptosomes, 94, 871
- Neutropenia, effect on leucocyte infiltration and cartilage degradation in immune arthritis in the rabbit, 95, 169
- Neurtrophil, identification in psoriatic skin lesions, 94, 1043
- induction of accumulation by interleukin-1 requires both local protein biosynthesis and neutrophil CD 18 antigen expression in vivo, 94, 1143
- Nicardipine, protective effects against ischaemic injury in the hippocampus of the Mongolian gerbil, 93, 877
- Nicergoline, effect on uterine contractions in pro-oestral rats, 93, 185
- Nicorandil, antagonism of vasodilator effects by Bay K 8644 in dog femoral circulation, 93, 146
- , negative inotropic effect in canine atrial muscle, 95, 393
- Nicotine, mechanism of action in isolated iris sphincter preparations of rabbit, 95, 459
- mechanism of action in isolated urinary bladder of guinea-pig, 95, 465
- Nicotinic acetylcholine receptor, actions of neostigmine and physostigmine in frog isolated sympathetic neurones, 94, 620
- regulation of numbers by chronic nicotine administration, 95, 459
- , role in sodium-dependent inhibition by PN200-11enantiomers of catecholamine release, 95, 9
- , role in the regulation of transmitter release in mouse,
 95, 1255
- Nicotinic synaptic transmission, role of cyclic AMP in long term regulation in rat superior cervical ganglion, 93, 309
- Nifedipine, antagonism of vasodilator effects by Bay K 8644 in dog femoral circulation, 93, 146
- , comparison of anti-vasoconstrictor activity with BRL 34915 in spontaneously hypertensive rats, 93, 541
- , comparison of cardiovascular effects with those of trans-diclofurimine in SH rats, 94, 1218
- —, effect of interaction with calcium channels in rat mesenteric artery, selective modulation by membrane

- potential, 95, 252
- , effect on canine saphenous vein after storage at -190°C, 94, 381
- —, effect on phospholipase A₂-induced hyperreactivity in rats, 94, 1057
- -, effect on pressor responses to Bay K 8644, 93, 994
- , effect on relaxations caused by potassium channel openers in rat oesophagus, 95, 519
- , effect on release of adrenergic transmitter and the vasoconstrictor response to NA in rat isolated kidney, 94, 355
- , effect on response to caffeine in chipmunk myocardium followed by isoprenaline, 95, 1287
- —, evaluation as a bronchodilator in guinea-pig, comparison with cromakalim, 95, 763
- , inhibition of the effects of Bay K 8644 on the mouse isolated distal colon, 94, 1198
- , kinetics in the rat and relationship between serum concentrations and uterine and cardiovascular effects, 95, 23
- mechanism of action on arrhythmias in early myocardial ischaemia, 94, 1275
- , selective blockade of 'purinergic' nerve-mediated vasopressor responses in the pithed rat, 95, 695
- Nimodipine, action on depolarization-induced release of [3H]-NA in naive or dependent rats, 93, 535
- , protective effect against ischaemic injury in the hippocampus of the Mongolian gerbil, 93, 877
- , protective effects against severe progressive hypoxia in the rat, 95, 903
- Ninhydrin, structural requirements for glucokinase inhibition from pancreatic B-cells or liver, 95, 851
- Nisoldipine, effect on beating of primary cultures of chick heart cells, 95, 771
- , effect on perfusion of post-stenotic myocardium in conscious pigs with differing degrees of concentric stenosis, 94, 219
- Nitric oxide, derivative of inhibitory factor extracted from bovine retractor penis, 93, 570
- , effects on vascular and non-vascular smooth muscle, influence of haemoglobin and erythrocytes, 95, 1151
- , release from rabbit isolated heart by ACh, induction of vasodilatation, 95, 830
- Nitrite, identification as the inhibitory factor extracted from bovine retractor penis, 93, 570
- , identification as the inhibitory factor in bovine retractor penis, 93, 579
- Nitroglycerin, antagonism of vasodilator effects by Bay K 8644 in dog femoral circulation, 93, 146
- , effect in isolated small blood vessels and thoracic aorta of the rat, 93, 613
- , effect on regional myocardial contractile dysfunction produced by treadmill exercise or isoprenaline stimulation in dogs, 95, 1141
- Nitrovasodilator, endogenous, release from rabbit isolated heart by ACh, induction of vasodilatation, 95, 830
- Nizofenone fumarate, chronotropic effect in rabbit sinoatrial node in vitro, 95, 1175
- NMS/Oxo-M ratio, index for efficacy of novel compounds acting at cortical muscarinic receptors, 93, 437
- Nociception, effect of codeine, morphine and BW443C in the unanaesthetized guinea-pig, 93, 93
- —, mode of action of opiates, 94, 185

- —, role of bradykinin analogues in neonatal rat, 95, 1008
 Node of Ranvier, frog, effect of alphaxalone on isolated myelinated nerve fibres, 94, 635
- Nomifensine, potentiating effect on response of rat anococcygeus muscle to NA and field stimulation, 94, 19
- Non-cholinergic, non-adrenergic nerves, presence of substance P-like peptide in carp intestinal bulb, 95, 39
- —, sites of opioid receptors in guinea-pig, 95, 413
- Non-cholinergic, non-adrenergic responses, to intramural nerve stimulation in rat stomach, 93, 684
- Non-cholinergic, non-adrenergic transmission, contribution of galanin in rat ileum, 94, 1241
- —, effects of prolonged exposure to α, β-methyl ATP in chicken rectum, 94, 9
- Non-cholinergic excitatory innervation, development before and after hatching to rectum via Remak's nerve in fowl, 95, 844
- Non-steroidal anti-inflammatory agents, effect on contractions induced by EGF-URO in isolated longitudinal smooth muscle strips from guinea-pig stomach, 95, 821
- , effect on granuloma-induced cartilage degradation, 93, 627
- , effect on ouabain-induced arrhythmias in guinea-pigs,
 93, 747
- , protective effects against electrical, mechanical and structural aspects of injury caused by simulated ischaemia, 94, 1207
- Noradrenaline, action in freshly dispersed cells of rabbit portal vein, 94, 475
- , activities at α-adrenoceptors of rabbit saphenous vein and rat aorta and anococcygeus, 93, 417
- , contractile responses of rabbit aorta rings in the presence of cromakalin and isradipine, 95, 741
- , effect of nerve stimulation on overflow in dog skeletal muscle, 94, 952
- , effect of opioid peptides on plasma concentrations, 94, 781
- , effect of idazoxan on actions of tyrosine on secretion in man, 95, 405
- —, effect on α-adrenoceptors in isolated blood vessels from the rabbit, 95, 473
- , effect on histamine-stimulated inositol phospholipid hydrolysis in bovine tracheal smooth muscle, 95, 1204
- , effect on myometrial responses in the pro-oestral rat, 93, 185
- --, effects, contribution of β-adrenoceptors as assessed with (-)-atenolol in human heart, 95, 55
- Hill (Patchold in Human heart, 25, 35)
 Hereign and an atherosclerotic conscious rabbits, 95, 1075
- —, facilitation of release from sympathetic nerves of rat anococcygeus muscle by prejunctional βadrenoceptors and angiotensin receptors, 95, 385
- , facilitation of release from sympathetic nerves through activation of ACTH receptors, β-adrenoceptors and angiotensin II receptors, 95, 993
- , induction of contractions, relaxation induced by pinacidil opening of potassium selective channels in rat mesenteric resistance vessels, 95, 103
- , induction of contractions in human uterine artery, effects of calcium and calmodulin antagonists, 94, 1037
- , induction of contractions in rabbit isolated aortic strips, effects of methylflavonolamine hydrochloride, 94, 1184

- induction of contraction in rabbit isolated ear vein, mediation by postjunctional α₂-adrenoceptors, 94, 1085
- induction of contraction in rabbit saphenous vein, mediation by α-adrenoceptor subtypes, effect of phenoxybenzamine, 95, 501
- , induction of enhanced neurally-evoked transmitter output in rat phrenic nerve, 94, 669
- , induction of mechanical and electrical responses in capsular smooth muscle of rabbit prostate, effect of YM-12617, 93, 702
- , induction of vasoconstrictor response, differential effects of calcium channel blockers, 94, 355
- , interactions with α₁-adrenoceptors in intact BC₃H₁ cells, 95, 1133
- , measurement of release in dog mesenteric arterial vessels, 95, 218
- , mechanism of acetaldehyde-induced release from sympathetic nerve terminals in isolated blood vessels, 95, 177
- —, modulation of release evoked by physiological irregular sympathetic discharge pattern, by α and β -adrenoceptors in vivo, 95, 1101
- -, palytoxin-induced release in rat tail artery, 95, 183
- responses of rat anococcygeus to, effects of PI-OH, cocaine, desipramine and nomifensine, 94, 19
- —, stimulation of the phosphoinositide system, 94, 363
- , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423
- , ventricular concentrations in naive and morphine treated rats subjected to acute myocardial ischaemia, 93, 723
- [3H]-noradrenaline, effect of chlorpromazine, prazosin and phentolamine on accumulation in rabbit isolated pulmonary artery and aorta, 93, 23
- , influence of protein kinase C on release from rat isolated atria, 94, 713
- modification of release from sympathetic nerves to bovine lymphatic vessels by α-adrenoceptor agonists and antagonists, 94, 823
- muscarinic inhibition of release on rabbit iris in vitro, 94, 890

Noradrenaline overflow, effect of clonidine and morphine in mouse vas deferens, 93, 35

[3H]-noradrenaline overflow, effect of P₁-purinoceptors in mouse vas deferens in vitro, 94, 37

- Nordihydroguaiaretic acid, effect on phospholipase A₂-induced airway hyperreactivity in rats, 94, 1057
- , effect on pressor responses of rat superior mesenteric arterial bed to arginine vasopressin, 95, 646
- , effect on spontaneous sensitization of rabbit aorta to des-Arg⁹-bradykinin, 93, 969

Nucleotide sensitive channels, effects of sulphonylureas and diazoxide in an insulin secreting cell line, 95, 83

- Nucleus accumbens, effect of administration of histamine and related compounds on spontaneous motor activity, 95, 1292
- rat, actions of dopamine antagonists on stimulated dopamine release, 94, 924

O

m-Octopamine stereoisomers, activities at α -adrenoceptors

- of rabbit saphenous vein and at rat aorta and anococcygeus, 93, 417
- p-Octopamine stereoisomers, activities at α-adrenoceptors of rabbit saphenous vein and rat aorta and anococcygeus, 93, 417
- Oedema, carageenin-induced, effect of novel acetohydroxamic acids in rats and mice. 94, 547
- -, effects of sensory neuropeptides on development in guinea-pig, 95, 1109
- Oesophagus, rat, PN 200-110 inhibition of field stimulationevoked relaxation in smooth muscle, 95, 512
- -, rat, similarity of relaxations evoked by BRL 34915, pinacidil and field-stimulation in smooth muscle, 95,
- Olfactory cortex, guinea-pig, quantitative study of the effects of some muscarinic antagonists, 93, 855
- Olfactory cortex slice, guinea-pig, quantitative effects of muscarinic agonists on evoked surface-negative field potentials, 93, 846
- -, rat, effect of 2,6-diisopropylphenol on synaptic transmission, 95, 939
- Omperazole, effect on responses to pentagastrin in rat isolated gastric mucosa, 95, 1047
- Ontogeny, δ and μ -opioid binding sites in rat brain after exposure to lead, 94, 933
- Opiates, ability to distinguish between spinal excitation from inhibition evoked by noxious heat stimuli in rats, 94, 185
- -, classical, comparison of effects with BW443C in the mouse, 93, 85
- Opioid congeners, inhibition of human liver morphine uridine diphosphate glucuronyl transferase, 94, 864
- κ-Opioid peptide, effect of N,N-diallyl-tyrosyl substitution on angonist properties of [D-Pro¹⁰] dynorphin A(1-11) **95**, 1023
- Opioid peptides, peripheral sympatho-inhibitory cardiovascular effects in anesthetized rabbits, 94, 781
- Opioid receptor affinity, 94, 625
- Opioid receptor agonist-antagonist analgesics, determination of antinociceptive activity in mice using 55°C hot plate and abdominal constriction assays, 95, 578
- Opioid receptor agonists, determination of antinociceptive activity in mice using 55°C hot plate and abdominal constriction assays, 95, 578
- —, effect on gastric excitatory responses to stimulation of cat vagus nerves, 95, 329
- —, effect on non-cholinergic neural bronchoconstriction in guinea-pigs, 95, 413
- x-Opioid receptor agonists, production of antinociception, effects of method of administration in the rat, 93, 553
- selectivity of PD117302, 93, 618
- Opioid receptor desensitization, association with agonism of β -chlornaltrexamine, assessment, 95, 234
- Opioid receptors, effect of perinatal lead exposure on development in rat brain, 94, 993
- -, presynaptic, peripheral sympathoinhibitory cardiovascular effects resulting from activation in anaesthetized rabbits, 94, 781
- -, role in the inhibition of tritium overflow in rabbit hippocampus, 93, 525
- κ-Opioid receptors, antagonist activity after N.N-diallyltyrosyl substitution of [D-Pro10]-dynorphin A(1-11), **95,** 1023

- -, selective agonism by PD117302 in rat or rabbit, 93,
- -, usefulness of β -chlornaltrexamine for estimation of agonist dissociation constants, 95, 234
- -, effect of activation on potassium conductance in rat lateral parabrachial neurones, 95, 896
- physiological relevance of low agonist affinity binding. 94, 625
- -, usefulness of β -chlornaltrexamine for estimation of agonist dissociation constants, 95, 234
- Opioid treatment, subacute, effect on timing of parturition in the rat, 95, 777
- Opioids, effects on non-cholinergic neural bronchoconstriction in guinea-pig in vivo, 95, 413
- Organ vascular resistances, induced by a-adrenoceptor agonists, effects of enalapril in pithed rats, 94, 449
- Oscillatory afterpotentials, effect of propafenone and mexiletine in Purkinje fibres of sheep heart, 95, 1039
- Ouabain, diffusion characteristics dissociate binding from inotropic effect in guinea-pig myocardium, 95, 399
- -, effect on isolated cerebral and femoral arteries of the cat, 93, 43
- -, effect on 86Rb uptake in human atrial cell line, 95, 614
- induction of arrhythmias in guinea-pigs, effect of some non-steroidal anti-inflammatory drugs, 93, 747
- Ovalbumin, induction of bronchoconstriction in the guineapig, effect of Ro 19-3704, 94, 27
- provocation of bronchoconstriction and airway infiltration in sensitized guinea-pig, inhibition by nedocromil sodium, 94, 6
- Oxazepam, inhibition of human liver uridine diphosphate glucuronyl transferase, 94, 864
- Oxidative phosphorylation, effect of prolonged in vivo treatment with imipramine in rat liver mitochondria, 95,
- Oxotremorine, effect on ACh release in guinea-pig ileum, effect of dicyclomine, 94, 1270
- effect of aging on potency on bovine tracheal smooth muscle, 93, 918
- effect on phosphatidylinositol breakdown in rat atria, 94, 347
- Oxygen supply, rat brain, effect of slow channel inhibitors, **95.** 903
- Oxytocin, foetal release, effect of M320 in parturient rats, 95, 777
- Ozone, effect on reactivity of upper and lower airways in guinea-pigs, 94, 938

- pA₂ values, antagonists of Paf on aggregation of rabbit platelets, 94, 437
- Palytoxin, induction of contraction and release of endogenous NA in rat tail artery, 95, 183
- -, induction of single ionic channels in guinea-pig ventricular myocytes, 93, 811
- Pancreatic \(\beta\)-cells, mechanism underlying interactions between glucose and alloxan competing for sugar binding site of glucokinase, 95, 851
- -, stereoselective effects of AZ-DF 265 in the mouse, 93,
- Pantoyl-y-aminobutyric acid, effect on high affinity trans-

port of choline into synaptosomes and Ch and ACh concentrations in rat brain, 95, 1303

Pantothenic acid, effect on brain ACh synthesis in rats, 95,

Papaverine, effect on contractions induced by NA, calcium and potassium in rabbit isolated aortic strips, 94, 1184

Papillary muscle, guinea-pig, electrical and mechanical effects of aminosteroids, 95, 1063

 , guinea-pig, quinidine blockade of cardiac sodium channels during opening and slow inactivation, 93, 311

Parabrachial neurones, rat, effect of μ-opioid receptor agonists, M₂-muscarinic agonists and GABA receptor agonists on potassium conductance, 95, 896

Parasympathetic nerve, modulation of cholinergic output by unknown excitatory substance released from sympathetic nerve by nicotine, 95, 465

Partial agonists, affinity for radiobinding assays using [³H]-N-methylscopolamine and [³H]-oxotremorine, 93, 437

Parturition, effect of M320 on timing in rats, 95, 777

PD 117302, effect on nociceptive thresholds to noxious mechanical and thermal stimuli in conscious rats after i.v., i.c.v. and intrathecal administration, 93, 553

 —, selective agonist for κ-opioid receptor, effect on the activity of the electrically-stimulated guinea-pig ileum and rabbit vas deferens, 93, 618

Pentagastrin, effect on neuronal activity in the ventromedial nucleus of the rat hypothalamus, 94, 246

 , fade and tachyphylaxis of gastric acid secretory response in rat isolated gastric mucosa, 95, 1047

Pentobarbitone, effect on GABA-induced chloride current in Aplysia neurones, 95, 883

 , general anaesthetic potency, effect of Bay K 8644 in mice, 94, 413

Pentoxifylline, lack of effect on infarct size in canine model of acute myocardial infarction, 93, 587

Pentylenetetrazole, interactions with Ro 15-4513 in mice, 93, 210

Peptide histidine isoleucine, comparison of actions with those of isoprenaline on vascular and capsular smooth muscle of dog spleen, 95, 664

-, effect in canine tracheal vasculature in vivo, 95, 1262

—, effect on mucus volume output from ferret trachea, 95,

Peptide YY, actions on the hepatic arterial and portal vascular beds of the anaesthetized dog. 94, 1149

Peptides, induction of prostaglandin release in dog iris sphincter muscle, 95, 544

 , inhibitory regulation of catecholamine secretion of canine adrenal medulla, 93, 383

Perfusion pressure, effect of human superoxide dismutase in two models of myocardial ischaemia in rats, 95, 735

Perinatal development, characterization of rat liver β-adrenoceptors as determined by [125]-iodopindolol radioligand binding assays, 93, 817

Peripheral nerve stimulation, stimulation of ACTH secretion, effect of neonatal capsaicin in rats, 94, 647

Peristalsis, enhancement in guinea-pig intestine by blockade of muscarinic M₁-receptors, 93, 715

Pertussis toxin, treatment of rat atria, carbachol-induced positive inotropic effects, 94, 347

Pethidine, comparison of peripheral and central effects with those of BW443C in the mouse, 93, 85 PGI₂ see Prostacyclin

pH, effect of artificial respiratory volume in air-ventilated pithed rat, 93, 781

—, effect on the action of cadmium on slow inward current of frog heart muscle, 94, 469

Pharmacodynamics, of cardiotonic steroids in guinea-pig isolated heart muscle preparations, 93, 281

Pharmacokinetics, of dibromosulphophthalein in rats with acute renal failure, 95, 343

PhCL28A, effect on ethanol- and phenylbutazone-induced rat gastric ulcers, 93, 465

Phencyclidine, effect on N-methyl-D-aspartate receptors, 95, 95

Phenobarbitone, effect of pretreatment upon endotheliumdependent relaxation to ACh in rat superior mesenteric arterial bed, 94, 977

Phenoxybenzamine, use in attempt to inactivate post junctional α_1 -adrenoceptors in rabbit isolated saphenous vein in order to study α_2 -adrenoceptors in isolation, **95.** 501

Phentolamine, effect on Bay K 8644-induced pressor responses, 93, 994

 , effect on sympathetic neuroeffector transmission in rabbit isolated pulmonary artery and aorta, 93, 23

 , effect on uterine contractions in pro-oestral rats, 93, 185

 , effect of endothelium on the antagonistic action in the rat aorta against phenylephrine, clonidine and NA, 95, 619

—, lack of α_2 -adrenoceptor agonist activity in anaesthetized dogs, 93, 337

Phenylalkylamine binding sites, interactions with animapil in isolated rat hearts and isolated membranes, 94, 253

Phenylbutazone, induction of gastric ulcers in rat, effect of sulphasalazine and PhCL28A on formation, 93, 465

Phenylephrine, effect on α-adrenoceptors in isolated blood vessels from the rabbit, 95, 473

—, effect on guinea-pig taenia caecum, 94, 557

 , effect on uterine contractions after adrenoceptor blockade in pro-oestral rats, 93, 185

, effects in normal and atherosclerotic conscious rabbits,
 95, 1075

 , induction of changes in cardiac output and organ vascular resistances, effect of enalapril in pithed rats, 94, 449

 , induction of contraction of rabbit isolated ear vein, mediation by postjunctional α₂-adrenoceptors, 94, 1085

interactions with α₁-adrenoceptors in intact BC₃H₁ cells, 95, 1133

 , pressor response to, dose-related response to prazosin pretreatment in anaesthetized rats, 93, 446

 responses in air-ventilated pithed rat, effect of varying artificial respiratory volume, 93, 781

 —, use in the characterization of α-adrenoceptors in several isolated blood vessels of the rabbit, 95, 473

Phenylethylamines, use in studies to characterize a putative adrenoceptor in guinea-pig ileum, 95, 723

2-(4-phenylpiperidino) see Vesamicol

8-Phenyltheophylline, effect on adenosine receptor-mediated contraction and relaxation of guinea-pig isolated tracheal smooth muscle, 95, 371

Phenprocoumon, stereoselectivity of activity, role of vitamin

K 2,3-epoxide reductase in the rat, 95, 675

Phloretin, blockade of inotropic effect of Bay K 8644 in rabbits, 94, 552

Phorbol esters, effect on tritium overflow in rabbit hippocampus, 93, 525

 , induction of coronary vasoconstriction in the isolated perfused heart of the rat, effect of atenolol and pindolol, 94, 573

Phorbol 12-myristate 13 acetate, activation of protein kinase C, effect on [3H]-NA release from rat isolated atria. 94, 713

Phosphatidylinositol, effects of muscarinic agonists on turnover in guinea-pig taenia caeci, 94, 199

 , effects of neosurugatoxin on metabolism in bovine adrenal chromaffin cells, 93, 275

Phosphatidylinositol breakdown, association with carbachol-induced positive inotropic effects induced by carbachol in rat atria, 94, 347

Phosphatidylserine, effect on behavioural and electrocortical power spectrum effects of clonidine and yohimbine in rats, 95, 1278

Phosphodiesterase inhibition, stimulation of adenylate cyclase, facilation of 5-HT release from enterochromaffin cells. 95, 923

 , effect on the potentiation by forskolin of evoked ACh release and postganglionic response in rat superior cervical ganglion, 93, 399

Phosphodiesterase type III inhibitor, cardiovascular properties in cats and dogs, 93, 893

Phosphoinositide system, stimulation by NA in rat resistance arterioles, 94, 363

Phosphoinositides, effect of bradykinin analogues on turnover in neuroblastoma cells, 94, 3

Phospholipase A₂, induction of airway hyperrreactivity to cooling and ACh in rat trachea, 94, 1057

 , role in the action of crotoxin at frog neuromuscular junction, 94, 765

Phosphonates, NMDA antagonist activity in electrophysiological and binding experiments, 95, 957

Phrenic nerve-diaphragm preparations, mouse, role of presynaptic cholinoceptors in modulation of transmitter release, 95, 1255

 , rat, origin of the anticholinesterase-induced repetitive activity in vitro, 94, 169

Physical dependence, production by [D-Arg²]-dermorphin tetrapeptide analogues and morphine in rats, 95, 15

Physostigmine, effect on ACh receptor-ionophore complex in frog isolated sympathetic neurones, 94, 620

 —, enhancement of contractile response to electrical stimulation of Remak's nerve in chicken rectum, 95, 844

Picrotoxin, antagonism of GABA-induced response in muscle membrane of locust, 95, 713

—, interactions with Ro 15-4513 in mice, 93, 210

Pilocarpine, activation of presynaptic receptors, possible role in miosis induced in rabbit in vivo, 94, 896

 , effect of aging on potency on bovine tracheal smooth muscle, 93, 918

 , effect on ACh release in guinea-pig ileum, effect of dicyclomine, 94, 1270

, effect on amount and specific activity of alveolar surfactants lavaged from lungs of resting and hyperpnoeic rats, 93, 473

Pimozide, effect on beating of primary cultures of chick heart cells, 95, 771

Pinacidil, negative inotropic effects in canine atrial muscle, 95, 393

 , opening of K⁺-selective channels causing hyperpolarization and relaxation of NA contractions in rat mesenteric resistance vessels, 95, 103

 production of relaxations in rat oesophageal tunica muscularis mucosa, 95, 519

Pindolol, effect on the phorbol ester-induced coronary vasoconstriction in the isolated perfused heart of the rat, 94, 573

—, selective regulation of β_1 - and β_2 -adrenoceptors in human heart, **94**, 685

Piperidine 4-sulphonic acid, effect on membrane conductance in locust, 95, 713

Pirenzepine, affinity for radiobinding assays using [3H]-N-methylscopolamine and [3H]-oxotremorine, 93, 437

 , antagonist effect on McN-A-343-induced effects on intestinal motility and heart rate, in conscious dog, 94, 566

 , antagonism of positive inotropic effect of carbachol in rat atria, 94, 347

-, effect on guinea-pig intestinal peristalsis, 93, 715

 , effect on membrane and contractile properties of smooth muscle cells and neuro-effector transmission in dogs, 93, 636

—, effect on spontaneous and evoked response of rat cerebral cortical neurones, 94, 192

, mimicking of effects by cisapride in guinea-pig ileum,
 94, 228

, selective ligand for putative M₁-muscarinic receptor,
 93, 491

Pitrazepin, antagonism of GABA-induced responses in locust muscle membrane, 95, 713

Pituitary gland, anterior, calcium and cyclic AMP promotion of prolactin release, 94, 737

Placenta, rat, maternal to foetal distribution of salicylate, 93, 978

Plasma, effect of coumarins on the clearance of vitamin K₁ in rabbits, 94, 1077

Plasma renin activity, effects of flosequinan in cats and dogs, 94, 371

Plasminogen activator, release induced in rats by leukotrienes but not by prostaglandins in rat isolated hindleg system, 93, 156

Platelet-activating factor, characterization of receptors on platelets, polymorphonuclear leukocytes and macrophages, 94, 1225

 induction of bronchoconstriction in the guinea-pig, effect of Ro 19-3704, 94, 27

, induction of death in mice, effect of drugs and experimental conditions which inhibit or stimulate adrenergic function, 93, 132

 , induction of gastric mucosal damage by intra-arterial administration in the rat, 93, 222

 , induction of microvascular leakage in guinea-pig and platelet aggregation in man, effect of WEB 2086, 94, 164

 , induction of pulmonary responses in the guinea-pig, effect of REV 5901, 94, 115

 , induction of rise of the intracellular calcium ion concentration of U937 cells, antagonism, 93, 769 Platelet activating factor receptor antagonists, effect on calcium ion contrations in U937 cells, 93, 769

 relative potencies and equilibrium dissociation constants on aggregation of rabbit platelets, 94, 437

Platelet aggregation, Paf-induced, comparison of the effects of WEB 2086, L-652, 731 and BN 52021, 94, 1225

 , supression by EDRF released from rabbit perfused aorta, 95, 1308

Platelets, guinea-pig, effects of prostanoid receptor agonists and antagonists, 94, 591

- , human, ÄH6809 blocking action on prostaglandin DP receptors, 94, 745
- —, human, effect of WEB 2086 on aggregation in man, 94,
- , inhibition by endothelium-derived relaxing factor from the rabbit perfused aorta, 95, 1037
- , rabbit, influence of EDRF activity in vivo on function, 94, 1020
- —, rabbit, pA₂ values for antagonists of Paf on aggregation, 94, 437
- -- , rabbit and guinea-pig characterization of receptors for Paf, 94, 1225
- PN 200-110, cardiovascular effect in conscious spontaneously hypertensive rats, 93, 176
- -- , effect of interaction with calcium channels in rat mesenteric artery, selective modulation by membrane potential, 95, 252
- inhibition of field stimulation-evoked relaxations in rat oesophageal smooth muscle, 95, 512
- PN 200-110 enantiomers, sodium-dependent inhibition of nicotinic adrenal catecholamine release, 95, 9

Polymixin B, effect on stimulation-evoked tritium in rabbit hippocampus, 93, 525

, inhibition of protein kinase C, effect on [³H]-NA release from rat isolated atria, 94, 713

Polymorphonuclear leucocytes, human, activation of metabolism by apparent modulation of protein kinase C by benoxaprofen, 93, 289

Portal vascular bed, actions of neuropeptide Y and peptide YY in anaesthetized dog, 94, 1149

Portal vein, rabbit, mechanism of action of α -adrenoceptors activation in single cells 94, 475

 , rat isolated, comparison of effects of calcium entry blockers against contractions, 95, 145

Positive inotropic responses, comparison of effects of BW A746C with those of sulmazole in various species in vivo. 93, 387

—, induced by 14β -hydroxyprogesterone, 93, 453

Potassium, effect on the potency of nifedipine rat heart, 94, 1275

- -- , evoked release of GABA, inhibitory effect of 4aminopyridine in rats, 94, 1017
- , importance of contractions on basal tone and 5-HT contractions in canine isolated coronary artery, 94, 325
- , induction of ACh release, influence of 2chloroadenosine in the frog, 93, 833
- , induction of contractions in rabbit isolated aortic strip, effect of methylflavonolamine hydrochloride, 94, 1184
- —, induction of release of [3H]-NA from isolated rat atria, influence of protein kinase C, 94, 713

Potassium analogues, effect of magnesium, ouabain and bumetanide on uptake in human atrial cell line, 95, 614

- Potassium channel activator, evaluation of cromakalim as a bronchodilator, 95, 763
- —, cardiovascular effects in rats and rabbits, 93, 121
- production of similar relaxations in rat oesophageal tunica muscularis mucosa, 95, 519

Potassium channel blocker, cardiovascular effects in rats and rabbits, 93, 121

Potassium channel opener, induction of relaxations in smooth muscle cells of guinea-pig mesenteric artery and vein, 95, 795

 , negative inotropic effects in canine atrial muscle, 95, 393

Potassium channels, blockade by β -bungarotoxin and related toxins on mouse and frog motor nerve terminals, 94, 839

- , blockade by dendrotoxins, involvement in effects on ACh release and motor terminal activity, 93, 215
- , involvement in the spasmogen action in guinea-pig isolated trachealis, 93, 319
- —, opening action of cromakalin in rabbit aorta, 95, 741
- , opening by pinacidil in rat mesenteric resistance vessels, 95, 103

Potassium chloride, contractile responses of rabbit aorta rings in the presence of cromakalin and isradipine, 95, 741

 , spasmogen action in guinea-pig isolated trachealis, 93, 319

Potassium conductance, increase in rat lateral parabrachial neurones by agonists at μ-opioid, M₂-muscarinic and GABA₈-receptors, 95, 896

Potassium currents, Ca activated, role in control of electrical excitability of motor nerve terminals and control of ACh release, 95, 1329

- Ca dependent, inhibition by ryanodine in smooth muscle cells of rabbit ileal longitudinal muscle, 95, 1089
- -, effect of alphaxalone in frog node of Ranvier, 94, 635

Potassium depolarization, contractile responses to, effect of Bay K 8644 in mouse isolated distal colon, 94, 1198

, induction of contractions, effect of calcium and calmodulin antagonists in human uterine artery, 94, 1037

Potassium efflux, effects of benztropine, atropine and ketamine in rat brain synaptosomes, 94, 871

, effect of pinacidil in rat mesenteric resistance vessels,
 95, 103

Potassium permeability, effect of AZ-DF 265 in β -cell membrane of mouse islets, 93, 61

(+)-3PPP, administration in ventral tegmental area, production of behavioural and electrocortical sleep, 95, 860

Practolol, effect on Paf lethality in mice, 93, 132

Prazosin, attenuation of the natriuretic response to a modest saline load in anaesthetized rats, 93, 446

- , effect of endothelium on the antagonistic action in rat aorta against phenylephrine, clonidine and NA, 95, 619
- -- , effect on α-adrenoceptors in rabbit isolated saphenous vein, 95, 485
- —, effect on cardiovascular responses of Long Evans and Brattleboro rats, involvement of β_2 -adrenoceptor mediated mechanisms, 93, 9
- -, effect on pressor responses to Bay K 8644, 93, 994

 , effect on the action of catecholamines on the force of contraction, 94, 584

Prednisolone, effect on granuloma-induced cartilage degradation. 93, 627

Pregnane steroids, modulation of GABA_A-receptor in preparation of porcine cerebral cortex, 94, 1257

Prenalterol, effect on Paf lethality in mice, 93, 132

Prenylamine, protective effects against severe progressive hypoxia in the rat, 95, 903

Pressor responses, effect of apamin and BRL 34915 in rats and rabbits, 93, 121

—, to Ad, effect of UL-52046 in dogs, 95, 1241

 to vasoconstrictor agents or electrical stimulation, effects of BRL 34915 and nifedipine in spontaneously hypertensive rats, 93, 541

Pressure/flow relations, effect of detergent in rat blood perfused mesteric arterial bed, 95, 1081

Pressure ejection, application of ATP to longitudinal muscle of chicken rectum, membrane potential responses, 95, 1157

Primary afferent neurones, excitation by capsaicin, induction of nasal secretion, pain and sneezing in humans, 93, 509

Primary afferent terminal, frog spinal cord, identification of two taurine receptor subtypes, 94, 1051

Proarrhythmic properties, of bepridil in rabbit heart, 93, 775

Probenecid, effect on transplacental distribution of salicylate in rats, 93, 978

Procaine, effect on spasmogen action in guinea-pig isolated trachealis, 93, 319

 , inhibitory effects on contraction and calcium movement in vascular and intestinal smooth muscle, 94, 789

Procaterol, pre- and post-junctional action on dog tracheal tissue, 95, 268

 , relaxing actions on smooth muscle cells of the dog trachea, 93, 199

Progesterone metabolites, effect at digitalis receptor, sodium pump and effect on cardiac contractility, 93, 453

 modulation of GABA_A receptors in preparations of porcine cerebral cortex, 94, 1257

Proglumide, effect on responses to pentagastrin in rat isolated gastric mucosa, 95, 1047

Prolactin, calcium-evoked release from permeabilised 7315 cells, 94, 737

, effect of tyrosine on secretion in man, 95, 405

Pro-oestrus, involvement of α-adrenoceptors in myometrial responses, 93, 185

Propafenone, electrophysiological mechanism for the antiarrhythmic action in guinea-pig isolated heart, 95, 1039

1,2-Propandiols, interactions with pressure and strychnine in the mouse, 94, 1069

D-Propoxyphene, comparison of peripheral and central effects with those of BW443C in the mouse, 93, 85

Propranolol, comparison with UL-FS 49 of haemodynamic effects during treadmill exercise in dogs, 94, 55

-, effect in hearts of conscious dogs, 93, 501

, effect on amount and specific activity of alveolar surfactants lavaged from lungs of hyperpnoeic and resting rats, 93, 473

 —, effect on maximal inotropic responses to phenylephrine stimulation of α-adrenoceptors in human heart, 94, 584

—, effect on Paf lethality in mice, 93, 132

 , lack of effect on inhibition induced by neuropeptide Y in guinea-pig airway, 93, 672

—, selective regulation of β_1 - and β_2 -adrenoceptors in human heart, **94**, 685

Prostacyclin, bradykinin-induced release from guinea-pig lungs and bovine endothelial cells, effect of captopril, 95, 783

, effect of adrenosin on formation in the rabbit heart, 94,
 721

 , effect of extra- and intracellular calcium on release in cultured endothelial cells, 95, 189

 , generation in guinea-pig macrophages, mediation by Paf receptor subtypes, 94, 1225

 , induction of little or no release of tissue-type plasminogen activator in rat hindleg system, 93, 156

-, induction of vascular relaxation, 93, 229

 , involvement in vasodilator responses to ACh, A23187 and bradykinin in guinea-pig isolated perfused heart, 95, 379

 , influence on suppression of platelet aggregation by EDRF from rabbit aortic endothelium, 95, 1308

 P_{2y}-purinoceptor-mediated release from human endothelial cells, regulation by cytoplasmic calcium concentrations, 95, 1181

 , role in actions of bradykinin and ACh-induced relaxations in anaesthetized rat, 95, 986

Prostacyclin biosynthesis, possible marker for severe endothelial distress in dog isolated lung, 93, 791

Prostaglandin D₂, release from human skin in vivo and in vitro during immediate allergic reactions, 94, 773

Prostaglandin E₁, induction of little or no release of tissuetype plasminogen activator in rat hindleg system, 93, 156

Prostaglandin E₂, effect in isolated small blood vessels and thoracic aorta of the rat, 93, 613

—, effect of M320 on synthesis in parturient rats, 95, 777

 , in relation to joint swelling in antigen-induced arthritis in rabbit, 95, 169

 , induction of little or no release of tissue-type plasminogen activator in rat hindleg system, 93, 156

 , lack of release after D. pteronyssinus antigen in human skin, 94, 773

 , metabolism in rat lung, effect of monocrotalineinduced lung vascular injury, 94, 1167

modification of histamine sensitivity and responsiveness of guinea-pig isolated trachea, 95, 300

 modification of pharmacokinetics induced by endotoxin in rats by steroids, 93, 955

 , spasmogen action in guinea-pig isolated trachealis, 93, 319

Prostaglandin $F_{2\alpha}$, involvement in contractions induced in isolated dog sphincter pupillae by angiotensin II and bradykinin, 95, 544

 metabolism by pulmonary endothelial cells, effect of monocrotaline-induced lung vascular injury in rats, 94, 1175

 , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423

Prostaglandin G₂, role in kinin-induced increase in transepithelial p.d. as a messenger released from kininresponsive subepithelial cells, 95, 701 Prostaglandin I2 see Prostacyclin

Prostaglandin DP-receptors, blockade by AH6809 in human platelets, 94, 745

Prostaglandins, effect of novel acetohydroxamic acids in rats and mice, 94, 547

- , endogenous, role in sulphasalazine and PhCL28A inhibition of formation of ethanol- and phenylbutazone-induced rat gastric ulcers, 93, 465
- —, involvement in contractions by angiotensin II and bradykinin of isolated dog sphincter pupillae, 95, 544
- —, role in the expression of morphine dependence in guinea-pig isolated ileum, 93, 932

Prostanoid receptors, action of agonists and antagonists on smooth muscle and platelets, 94, 591

Prostanoids, effects of non-steroidal anti-inflammatory drugs in relation to ethanol-induced gastric injury, 93, 937

Prostate, human, stereospecificity of LY253352 for α_1 -adrenoceptor binding sites, 95, 139

 , rabbit, electrical and mechanical properties of capsular smooth muscles in relation to the actions of YM-12617, 93, 702

Protein biosynthesis, local, role in interleukin-1-induced neutrophil accumulation in vivo, 94, 1143

Protein kinase C, apparent modulation by benoxaprofen, 93, 289

- —, influence on the release of radioactivity from rat isolated atria labelled with [3H]-NA, 94, 713
- , involvement in the presynaptic modulation of ACh release in rabbit hippocampus, 93, 525
- , lack of involvement in stimulant effect of thapsigargin on arachidonic acid metabolism, 94, 917

Protein kinase C activators, vasoconstrictor response in rat heart, effect of pindolol and atenolol, 94, 573

Proximal sodium reabsorption, effect of furosemide in conscious rats, 95, 353

Psoriasis, lesions contain novel lipid neutrophil chemokinetic compound distinct from chemoattractant eicosanoids, 94, 1043

Psychological stress, stimulation of ACTH secretion, effect of neonatal capsaicin in rats, 94, 647

Pulmonary artery, rabbit, effect of chlorpromazine on sympathetic neuroeffector transmission, 93, 23

Pulmonary circulation, ferret, vasodilator response to dopamine, 94, 212

Pulmonary oedema, endotoxin-induced in rats, modification by steroids, 93, 955

 induction by α-naphthylthiourea, effect on adenine nucleotide metabolism in rat perfused lung, 94, 1029

Pulmonary responses, to histamine administered after indomethacin in anaesthetized guinea-pigs, effect of sodium cromoglycate, 94, 515

Pulmonary vascular injury, effect on the ability of the lung to metabolize vasoactive autocoids in the rat, 94, 1167

Purine compounds, gastric motor responses in the atropinetreated rabbit, 94, 1157

 , pre- and postjunctional actions in the guinea-pig caecum circular muscle, 95, 653

P₁-purinoceptor agonists, actions in mouse vas deferens in vitro, 94, 37

P₁-purinoceptor antagonists, actions in mouse vas deferens in vitro, 94, 37

Purinoceptors, role in mediation of gastric motor responses

to vagal stimulation and purine compounds in the atropine-treated rabbits, 94, 1157

P₁-purinoceptors, agonist action of AMP, inhibition of sympathetic neurotransmission, 94, 961

P₂-purinoceptors, antagonism by suramin in mouse vas deferens, 93, 243

- , apical, control of anion and fluid secretion in rat epididymis, 95, 1315
- , effect of desensitization on vasopressor responses in pithed rat, 94, 103
- , mediation of actions in isolated perfused mesenteric bed of the rat, 95, 637
- , mediation of vasopressor responses in pithed rat, effect of nifedipine, 95, 695

P_{2y}-purinoceptors, mediation of prostacyclin release from human endothelial cells, regulation by cytopalsmic calcium concentration, 95, 1181

Purkinje fibres, dog, suppressive effects of somatostatin, 93,

 , effect of propafenone and mexiletine on activity in sheep heart, 95, 1039

PY 108-068, cardiovascular effects in conscious spontaneously hypertensive rats, 93, 176

Pyrexia, effect of novel acetohydroxamic acids, in rats, 94, 574

Pyrilamine, effect on phospholipase A₂-induced airway hyperreactivity in rats, **94**, 1057

Q

Quinidine, blockade of cardiac sodium channels during opening and slow inactivation in guinea-pig papillary muscle, 93, 311

Quinolate, induction of contractions in guinea-pig myenteric plexus, 95, 1271

Quinolinic acid, bimolecular actions, evidence from an extension of Hill and Gaddum-Schild equations, 95, 805

 , effect on amino acid release from rat cerebral cortex in vitro and in vivo, 93, 868

Quinoxalinediones, selective blockade of quisqualate and kainate receptors and synaptic events in rat neocortex and hippocampus and frog spinal cord in vitro, 95, 585

Quipazine, interactions with Ro 15-4513 in mice, 93, 210
 reduction of food intake in the rat by activation of 5-HT₂-receptors, 95, 598

Quisqualate, quantitative study of actions in rat hippocampal slices, 95, 291

Quisqualate receptors, selective blockade by quinoxalinediones in rat neocortex and hippocampus and frog spinal cord, 95, 585

R

R28935, effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975

Radioligand binding, of calcium antagonists in rat mesenteric artery, 95, 252

—, studies with PD117302 in guinea-pig brain, 93, 618

Radioligand binding assays, using N-methylscopolamine

and oxotremorine to predict the efficacy of test compounds at muscarinic receptors in rat cerebral cortex, 93, 437

Raphé obscurus, effect of stimulation on rat spinal motoneurones, action of 5-HT agonists and antagonists, 95, 437

Rate-dependent block, increased rate of onset by melperone in isolated rabbit heart muscles, 94, 1063

Rauwolscine, effect on adrenoceptors in rabbit isolated saphenous vein, 95, 485

 —, use in the characterization of α-adrenoceptors on several blood vessels from the rabbit, 95, 473

 , effect on sympathetic neuroeffector transmission in rabbit isolated pulmonary artery and aorta, 93, 23

Receptor autoradiography, detection of binding sites in mammalian brain for [3H]-MK-801, 93, 948

Receptor binding assays, examination of experimental design, 94, 693

Receptor protection, using phenoxybenzamine in rabbit saphenous vein, 95, 501

Receptor reserve, reduction by endothelium in rat isolated aorta, 95, 619

Receptor sites, pre- and post-junctional for thromboxane B₂, functional differences, 93, 367

Rectum, chicken, development before and after hatching of non-cholinergic excitatory innervation via Remak's nerve, 95, 844

—, chicken, effect of prolonged exposure to α,β -methyl ATP on NANC excitatory transmission, 94, 9

 , chicken, membrane potential responses to ATP applied by pressure ejection in longitudinal muscle, 95, 1157

Refractory periods, shortening by simulated ischaemia, protection of rat atrial myocardium, 94, 1207

κ-Relaxations, endothelium dependent, evoked by ACh in rat superior mesteric bed, effect of phenobarbitone pretreatment, 94, 977

 —, evoked by BRL 34915, pinacidil and field-stimulation in rat oesophageal tunica muscularis mucosae, similarity, 95, 519

 —, evoked in guinea-pig isolated trachealis muscle by some xanthine derivatives, 94, 1091

 , field stimulation-evoked in rat oesophageal smooth muscle, inhibition by PN 200-110, 95, 512

Remak's nerve, electrical stimulation produces a small contraction of rectum isolated from chicken, 95, 844

Renal function, effect of amlodipine in normotensive and SH rats, 93, 561

Renal plasma flow, effect of furosemide in conscious rats, 95, 353

Renal haemodynamics, effect of furosemide in conscious rats. 95, 353

Renal sympathetic nerves, ability to cause antidiuresis and antinatriuresis in normotensive or SH rats, effect of amlodipine, 93, 561

Renovascular function, effect of BW A575C in anaesthetized dog, 93, 165

Reperfusion injury, model for myocardial ischaemia, cardioprotective effects of human superoxide dismutase in rats, 93, 735

Repetitive activity, induction by anticholinesterases in the phrenic nerve-diaphragm preparation of the rat in vitro, 94, 169

Reserpine, effect on Paf lethality in mice, 93, 132

 , effect on palytoxin-induced contraction and release of Na in rat tail, 95, 183

Reserpine-resistant vasoconstriction, and neuropeptide Y, evoked by sympathetic nerve stimulation in dog skeletal muscle, 94, 952

Resistance arteries, potentiation by neuropeptide Y of vasoconstriction in rats, 95, 419

Resistance arterioles, rat, phosphoinositide metabolism and identification of novel hydrophobic inositol-containing compound, 94, 363

Resistance vessels, EDRF and the effects of ACh and histamine in the rat, 95, 835

 , effect of EDRF in an intact vascular bed: microangiographic study of rabbit isolated ear, 93, 654

Retractor penis, bovine, relaxant effect of BRL 34915, 94, 1189

REV 5901, effect on Paf-induced pulmonary responses in guinea-pig. 94, 1115

Righting reflex, effect of Bay K 8644 in mice, 94, 413

Ro 5-3663, interactions with Ro 15-4513 in mice, 93, 210

Ro 15-4513, interactions with chemical convulsants in mice, 93, 210

Ro 19-3704, interference with Paf and antigen-induced bronchoconstriction in the guinea-pig, 94, 27

Ro 19-4603, effect on nociception and on morphineinduced antinociception in rats, 93, 964

Rostral ventrolateral medulla, pressor responses to electrical stimulation, involvement of central adrenoceptors, 94, 609

Route of administration, effect on antinociceptive action of κ -opioid agonists in conscious rats, 93, 553

RS 43285, effects on myocardial conduction in the anaesthetized dog, 93, 375

RU 24213, behavioural responses in young compared with aged rats, 95, 335

Rubidium efflux, effect of pinacidil in rat mesenteric resistance vessels, 95, 103

56Rubidium, effect of magnesium, ouabain and bumetanide on uptake in a human atrial cell line, 95, 614

Ryanodine, comparison with effects of caffeine on electromechanical coupling in myocardium of hibernating chipmunk, role of Ca stores, 95, 1287

 , effect on inward current evoked by muscarinic receptor stimulation in single cells of small intestine, 95, 325

 , effects on tension development in rat aorta and mesteric resistance vessels, 95, 605

 , inhibition of Ca-dependent K current after depletion of Ca stored in smooth muscle cells of rabbit ileum, 95, 1089

S

Salbutamol, effect on amount and specific activity of alveolar surfactants lavaged from lungs of resting and hyperpnoeic rats, 93, 473

 , effect on histamine-stimulated inositol phospholipid hydrolysis in bovine tracheal smooth muscle, 95, 1204

—, effect on Paf lethality in mice, 93, 132

Salicylate, modification of transplacental distribution in

- rats by acidosis and alkalosis, 93, 978
- Salivation, parasympathetic nerve-evoked, tachykinin involvement in the ferret, 94, 707
- Saphenous vein, dog, agonist action of GR43175 on 5-HT₁-like receptor, 94, 1123
- , human, autoradiographic localization and function of β-adrenoceptors, 95, 225
- rabbit, activities of octopamine and synephrine stereoisomers on α-adrenoceptors, 93, 417
- , rabbit, attempt at selective protection from phenoxybenzamine of postjunctional α-adrenoceptor subtypes mediating contractions to NA, 95, 501
- -- , rabbit isolated, characterization of postjunctional αadrenoceptors using NA agonists and antagonists, 95, 485
- Saralasin, effect on α-adrenoceptor mediated pressor responses in pithed rats, 95, 1229
- effect on diastolic blood pressure and sympathetic nerve mediated pressor responses in pithed rat, 95, 1220
- , effect on enhancement of S-I efflux of radioactivity from rat anococcygenus muscle pre-incubated with [³H]-NA, 95, 385
- Sarcolemma, rat, binding of α-bungarotoxin, 94, 968
- Sarcoplasmic reticulum, buffering of rises in cytoplasmic Ca²⁺, effect of ryanodine in rat mesteric resistance vessels, 95, 605
- -, impairment of Ca release by Bay K 8644, 94, 291
- , store for calcium, effect of depletion on effects of ryanodine on Ca-dependent K current in smooth muscle cells of rabbit ileal longitudinal muscle, 95, 1089
- SCH 23390, action on stimulated striatal and limbic dopamine release, 94, 924
- SCH23390, blockade of vasodilator response to dopamine in ferret pulmonary circulation, 94, 212
- —, effect on urine flow in rats infused with hypotonic saline, 93, 131
- Schild analysis, actions of excitatory amino acids in neocortical pyramidal cells, 95, 805
- Seizure thresholds, effect of Ro 15-4513 in mice, 93, 210
- Seizures, audiogenic, anticonvulsant effects of some calcium entry blockers in DBA-2 mice, 93, 247
- Senktide, production of 5-HT-mediated behaviour following administration in rodents, 94, 285
- Sensory neurones, frog isolated, effect of temperature change on GABA-induced chloride current, 95, 753
- , rat, structure-function relationship for ligands of ATP receptors. 95, 1057
- Serine phospholipids, stereoselective effects in rodents, 93, 647
- , effect of chloride channel blockers in rat epididymis,
 94, 155
- Short circuit current, effect of ATP in rat epididymal cells, 95, 1314
- , effect of removal of epithelium on effects of prostaglandins in rabbit and rat colon, 95, 701
- Single channel current, in cultured endothelial cells from human umbilical vein, 95, 429
- Sino-atrial node, rabbit, chronotropic effects of nizofenone in vitro, 95, 1175
- Skeletal muscle, effect of sympathetic nerve stimulation on overflow of NA and vasoconstriction, 95, 1101
- SK&F 38393, behavioural responses in young compared

- with aged rats, 95, 335
- , vasodilator response to, in ferret pulmonary circulation, 94, 212
- SK&F 94836, cardiovascular properties in cats and dogs, 93, 893
- SK&F 95282, potent selective brain penetrating histamine H₂-receptor antagonist, 93, 69
- SK&F 101926, flushing and haemodynamic responses to, in rhesus monkey, 94, 759
- Skeletal muscle, rabbit, calcitonin gene-related peptide desensitized arterioles to substance P in vivo, 95, 673
- SKA-525A, effect on pressor responses of rat superior mesenteric arterial bed to arginine vasopressin, 95, 646
- SKF 741481-A₂, effect on tracheal vascular resistance in sheep, 95, 551
- Skin, human, characterization of neuropeptide-induced histamine release from mast cells. 95, 121
- , rabbit, endothelin-induced microvascular constriction, 95, 1005
- Skinned muscle strips, effects of leukotriene D₄ on mechanical properties of guinea-pig basilar artery, 93, 591
- Slow channel inhibitors, protective effects against severe progressive hypoxia in the rat, 95, 903
- Slow inactivation, guinea-pig papillary muscle, quinidine blockade of cardiac sodium channels. 93, 311
- Slow inward currents, effect of cadmium in frog heart muscle in relation to lowering of pH in external solution, 94, 469
- Smooth muscle, guinea-pig, action of prostanoid receptor agonists and antagonists, 94, 591
- —, guinea-pig, effect of amiloride on Na/Ca exchange and tension development, 93, 601
- , guinea-pig and rat, action of methoctramine and himbacine at muscarinic receptors, 95, 1031
- , guinea-pig isolated trachea, effect of adenosine antagonists on adenosine receptor-mediated contraction and relaxation, 95, 371
- pregnant rat, role of inositol phosphate in regulation of Ca²⁺ in intracellular stores in myometrium, 95, 284
- , rabbit ileal, ryanodine inhibition of Ca-dependent K current after depletion of Ca stores, 95, 1089
- , vascular and non-vascular, influence of haemoglobin and erythrocytes on the effects of EDRF, inhibitory factor and nitric oxide, 95, 1151
- -- , rabbit portal vein, mechanism of action of αadrenoceptor activation in single cells, 94, 475
- , rat mesenteric resistance vessels, effect of pinacidil, 95, 103
- rat oesophagus, PN 200-110 inhibition of field stimulation-evoked relaxation, 95, 512
- Smooth muscle cells, depolarization induced by neuropeptide Y in rat resistance arteries, 95, 419
- -, dog trachea, relaxing action of procaterol, 93, 199
- , intestine, calcium-dependent rather than a G-protein mechanism in muscarinic receptor-evoked inward currents, 95, 325
- Smooth muscle contraction, in ferret trachea in vitro, in response to methacholine, phenylephrine and salbutamol, 94, 293
- Smooth muscle function, comparison of the effects of muscarinic agonists in guinea-pig taenia caeci, 94, 199
- Smooth muscle strips, guinea-pig stomach, inhibition of contraction induced by epidermal growth factor-

urogastrone, 95, 821

Social interaction test, effect of GR38032F in rats, 93, 985 Sodium/calcium exchange, effect of amiloride in guinea-pig aortic strips, 93, 601

Sodium/potassium exchange, role in the secretion of EDRF in canine coronary artery in vitro, 95, 67

Sodium azide, effect on cyclic GMP levels in pig aortic endothelial cells, 93, 229

Sodium channels, cardiac, quinidine blockade during opening and slow inactivation in guinea-pig papillary muscle, 93, 311

 , effect of amoxapine in mammalian isolated cardiac preparations, 94, 1250

 , effect of striatoxin on inactivation in guinea-pig and rat cardiac muscle, 95, 867

 , voltage dependent, site of direct action of ciguatoxin in guinea-pig heart muscle, 95, 876

Sodium cromoglycate, effect on citric acid-induced cough in dogs, 93, 609

 , effect on pulmonary responses to histamine administered after indomethacin in anaesthetized guinea-pigs, 94, 515

Sodium currents, effect of alphaxalone in frog node of Ranvier, 94, 635

 , role in ciguatoxin activation of guinea-pig cardiac muscle, 95, 876

Sodium excretion, effect of chronic prazosin pretreatment after a modest saline load in anaesthetized rats, 93, 446

Sodium fluxes, neurotensin-induced in dogs, effects of atropine and tetrodotoxin, 94, 121

Sodium handling, by the kidney in normotensive and hypertensive rats, action of amlodipine, 93, 561

Sodium influx, inhibition attenuates airway response to a specific antigen challenge in smooth muscle, 93, 884

Sodium ions, effect on binding of [D-Pro¹⁰] dynorphin A(1-11) analogues at μ - and κ -binding sites, 95, 1023

Sodium nitroprusside, effect on cardiac output in the anaesthetized rat, 95, 986

—, endothelium-independent effects in rat aorta, 94, 853

Sodium-potassium pump, effect on cardiac glycoside fluxes in human and rat erythrocytes and mouse macrophages, 93, 803

 , role in endothelium-dependent hyperpolarization of canine coronary smooth muscle, 93, 515

Sodium pump, action of vanadate on activity in cat isolated cerebral and femoral arteries, 93, 53

 , characterization of those present in cat cerebral and femoral arteries using ouabain, 93, 43

 —, inhibition by 14β-hydroxyprogesterone, in cardiac and other tissues, 93, 453

Sodium reabsorption, effects of amlodipine in normotensive and SH rats, 94, 311

 , proximal, effect of furosemide in conscious rats, 95, 353

Sodium salicylate, effects on gastric mucosal release of eicosanoids in rats under basal conditions and after ethanol challenge, 93, 937

Sodium secretion, effects of neurotensin in dogs, 94, 121

Soleus muscle, decebrate rat, effect of dantrolene sodium on discharge of alpha and gamma motoneurones, 93, 257

Somatostatin, induction of histamine release from human dispersed skin mast cells, 95, 121

-, suppressive effects in dog Purkinje fibres, 93, 192

Somatostatin peptides, inhibitory effects on the rat anococcygenus muscle in vitro, 94, 87

Sotalol, selective regulation of β_1 - and β_2 -adrenoceptors in human heart, **94**, 685

Soya bean trypsin inhibitor, effect on bradykinin levels and on vascular permeability in rats, 93, 739

Spantide, suppression of ocular response to electrical stimulation or tachykinins in the rabbit, 95, 259

Spasms, induction in guinea-pig isolated trachealis muscle by some xanthine derivatives, 94, 1091

Sphincter pupillae, dog isolated, prostaglandin involvement in contractions induced by angiotensin II or bradykinin, 95, 544

Spinal cord, rat, activation of bradykinin receptor in vitro, 95, 1008

, rat, effects of benzodiazepine receptor agonist, antagonist and inverse agonist on morphine-induced inhibition of nociceptive reflex, 93, 964

 , rat, mustard oil excites nociceptive dorsal horn neurones, 94, 180

, rat, opiates distinguish spinal excitation from inhibition evoked by noxious heat stimuli, 94, 185

 , frog, identification of two taurine receptor subtypes on the primary afferent terminal, 94, 1051

—, neonate rat, 5-HT-evoked responses, 94, 1101

Spinal motoneurones, effects of 5-hydroxytryptamine agonists and antagonists to raphe obscurus stimulation in the rat, 95, 437

Spiroxatrine, inhibition of forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975

Spleen, dog, comparison of the differential effects of VIP and peptide histidine isoleucine on vascular and capsular smooth muscle, 95, 664

Spontaneous activity, effect of muscarinic antagonists in rat cerebral cortical neurones, 94, 192

Spontaneous motor activity, biphasic effects of intraaccumbens histamine administration in the rat, 95, 1292

Stereospecificity, vesamicol and its optical isomers, 93, 759 Steriods, effect on GABA-induced contractile responses in guinea-pig isolated ileum, 95, 33

 modification of pulmonary oedema and prostaglandin pharmacokinetics induced by endotoxin in rats, 93, 955

Stimulus-secretion coupling, effect of volatile anaesthetics in bovine chromaffin cells, 95, 209

Stomach, cat, involvement of GABA_A- and GABA_B-receptors in the inhibitory effects of GABA on delayed increase of intragastric pressure, 95, 163

 rat, development of non-cholinergic, non-adrenergic responses to intramural nerve stimulation, 93, 684

 rat, fade and tachyphylaxis of gastric acid secretory response to pentagastrin in gastric mucosa, 95, 1047

Stress, acute and repeated, effect on central GABAergic function in areas of rat brain, 93, 483

Striatoxin, mechanism of inotropic action in isolated cardiac muscle, 95, 867

Striatum, rat, actions of dopamine antagonists on stimulated dopamine release, 94, 924

Strychnine, effect on hyperpolarizing effect of taurine in frog

spinal cord, 94, 1051

 , effect on responses of guinea-pig myenteric plexus to glutamic acid, 95, 1271

- , induction of convulsions, effects of mephenesin isomers in the mouse, 94, 1069
- —, interactions with Ro 15-4513 in mice, 93, 210

Subarachnoid haemorrhage, role of leukotriene D₄ in delayed cerebral vasospasm, 93, 591

Substance P, calcitonin gene-related peptide desensitization of skeletal muscle arterioles in vivo, 95, 673

- , dilator responses in preconstricted arteries of rabbit isolated ear, 93, 564
- , effect in intact and rubbed guinea-pig trachea in vitro,
 93, 909
- , effect on microvascular permeability in guinea-pig airways. 95, 1109
- —, induction of histamine release in human skin mast cells, 95, 121
- -, induction of salivation in ferret, 94, 707
- metabolism in rat lung, effect of monocrotalineinduced lung vascular injury, 94, 1167
- , possible involvement in ocular response to injury in the rabbit, 95, 259
- -, responses of rat stomach, 93, 684
- , stimulation of inositol hydrolysis in various tissues, 94, 148
- —, vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423

Substance P analogue, blockade of nicotine-induced contraction in rabbit isolated sphincter, 95, 459

Substance P immunoreactivity, release by bradykinin from capsaicin-sensitive structure in guinea-pig heart, 94, 288

Substance P-like peptide, presence in an acid extract of the intestinal bulb of the carp (Cyprinus carpio), 95, 39

Sulmazole, comparison of cardiovascular and biochemical effects with those of BW A746C in various species in vivo, 93, 387

Sulphasalazine, effect on ethanol- and phenylbutazoneinduced rat gastric ulcers, 93, 465

Sulphinpyrazone, protective effects against electrical, mechanical and structural aspects of injury caused by simulated ischaemia, 94, 1207

Sulphobromophthalein, hepatobiliary clearance in rodents, reduction by clonidine, 94, 97

Sulphonylureas, effect on insulin secretion and nucleotidesensitive channels in an insulin-secreting cell line, 95, 83

Sulpiride, blockade of vasodilator response to dopamine in ferret pulmonary circulation, 94, 212

 , effect on urine flow in rats infused with hypotonic saline, 93, 131

Superior mesenteric arterial bed, effect of phenobarbitone pretreatment upon endothelium-dependent relaxation to ACh. 94, 977

 , rat, endothelium-dependent modulation of the pressor activity of arginine vasopressin, 95, 646

Superoxide dismutase, cardioprotective action in reperfusion models of myocardial ischaemia in rats, 95, 735

- , effect on ACh-induced EDRF content in rabbit perfused aorta, 95, 1307
- , effect on cyclic GMP levels in pig aortic endothelial cells, 93, 229
- , effect on endothelium-dependent effects of prostacyclin in coronary artery of the pig, 95, 1197

Superoxide generation, dose related activation by benoxap-

- rofen by human polymorphonuclear leucocytes, 93, 289
- Suramin, antagonism of P₂-purinoceptors in mouse vas deferens, 93, 243

Surfactants, control in rats at rest and during prolonged hyperpnoea, 93, 473

Sympathetic discharge pattern, irregular, stimulation of endogenous NA overflow and vasoconstriction, modulation by adrenoceptors, 95, 1101

Sympathetic nerve stimulation, release of [3H]-NA from isolated rat atria, influence of protein kinase C, 94, 713

Sympathetic nerve terminals, mechanism of acetaldehydeinduced NA release in isolated blood vessels, 95, 177

Sympathetic nerves, bovine, release of [3H]-NA to bovine mesenteric lymphatic vessel. 94, 823

- , facilitation of NA release through activation of ACTH receptors, β-adrenoceptors and angiotensin II receptors, 95, 993
- frog isolated, effect of neostigmine and physostigmine in nicotinic ACh-induced inward currents, 94, 620
- , guinea-pig urinary bladder, latent excitatory effect revealed by nicotine, 95, 465
- , mediation of pressor response in pithed rat, influence of angiotensin II, 95, 1220

Sympathetic neuroeffector transmission, effect of P₁-purinoceptor agonists and antagonists in mouse vas deferens, in vitro, 94, 37

 , in rabbit isolated pulmonary artery and aorta, effect of chlorpromazine, 93, 23

Sympathetic neurotransmission, AMP-induced inhibition in the isolated vas deferens of rat and guinea-pig, mechanism of action, 94, 961

 , induction of pressor responses in pithed rats, effect of nifedipine, 95, 695

Synaptic inhibition, effect of cocaine in rat, 95, 1117

Synaptic membranes, rat cortex, comparison of binding of radiolabelled neurokinin A and eledoisin, 94, 602

Synaptic responses, of neurones in the rat ventrobasal thalamus by ketamine and MK-801, 94, 443

Synaptic transmission, effects of 2,6-diisopropylphenol in rat olfactory cortex, 95, 939

Synaptosomes, isolated, studies on the mechanism by which tryptophan efflux is stimulated by depolarization, 93, 341

 , rat brain, mechanism by which monoamine oxidase inhibitors give rise to a noncalcium-dependent component in 5-HT release, 95, 950

p-Synephrine stereoisomers, at α-adrenoceptors of rabbit saphenous vein and rat aorta and anococcygeus, 93, 417

Systemic haemodynamics, effect of bisprolol in anaesthetized pigs, 95, 361

T

Tachycardia, 5-HT-induced in the pig, involvement of a new type of 5-HT receptor, 93, 663

 , response to vasopressin peptides in rhesus monkey, 94, 759

Tachykinin antagonist, suppression of ocular response to

electrical stimulation or tachykinins in the rabbit, 95, 259

Tachykinins, binding in rat cortex synaptic membranes, 94, 602

- , effect of 5-HT-mediated behaviour in mice and rats,
 94. 285
- , involvement in nicotine-induced contractile response of rabbit isolated iris sphincter, 95, 459
- involvement in parasympathetic nerve-evoked salivation of the ferret, 94, 707
- , stimulation of inositol hydrolysis in various tissues, 94, 148

Tachyphylaxis, comparative study of AP₅A and α , β -methylene ATP in guinea-pig vas deferens, **94**, 699

 , of gastric acid secretory response to pentagastrin in rat isolated gastric mucosa, 95, 1047

Taenia caecum, guinea-pig, calcium and the activation of α-adrenoceptors, 94, 557

- , guinea-pig, comparison of effects of muscarinic agonists on smooth muscle function and phosphatidylinositol turnover, 94, 199
- , guinea-pig, effects of procaine on contraction and calcium movement, 94, 789
- , guinea-pig, short-term desensitization by carbachol at intracellular Ca stores, and by histamine at H,-receptors, 94, 882

Taenia coli, guinea-pig, relaxant effect of BRL 34915, 94, 1189

Taurine receptor subtypes, identification on primary afferent terminal of frog spinal cord, 94, 1051

Tazolol, effect on Paf lethality in mice, 93, 132

Temperature, dependence of kinetics of [3H]-(+)-N-methyl-4-methyldiphenhydramine to histamine H₁ receptor, 94, 811

- , effect of change on GABA-induced chloride current in isolated sensory neurones of the frog, 95, 753
- , effect of reduction on the inhibitory action of adenosine and magnesium ion at frog motor nerve terminals, 93, 839

Tension, effect of amiloride on development in guinea-pig vascular smooth muscle, 93, 601

Teprotide, effect on diastolic blood pressure and sympathetic nerve-mediated pressor responses in pithed rat, 95, 1220

 —, effects on resting diastolic blood pressure and αadrenoceptor mediated pressor responses in pithed rats, 95, 1229

Tetanic fade, neostigmine-induced, reduction by tubocurarine, choline and hexamethonium in phrenic nervediaphragm preparations of the mouse, 95, 1255

Tetraethylammonium, effect on spasmogen action in guinea-pig isolated trachealis, 93, 319

Tetraethylammonium clearance, effect of furosemide in conscious rats, 95, 353

1,2,3,4-Tetrahydro-9-aminoacridine, inhibitory effect on depolarization-induced release of GABA from cerebral cortex, 94, 1017

Tetrodotoxin, effect on neurotensin-induced ileal sodium transport in dogs, 94, 121

- —, effect on responses of guinea-pig myenteric plexus to glutamic acid, 95, 1271
- , lack of effect on nicotine-induced contraction in rabbit isolated iris sphincter, 95, 459

 , lack of effect on nicotine-induced contraction in guinea-pig urinary bladder, 95, 465

Tetrodotoxin-insensitive relaxations, effect of PN 200-110 in rat oesophageal smooth muscle, 95, 512

Thapsigargin, analysis of stimulative effect on arachidonic acid metabolism in rat peritoneal macrophages, 94, 917

Theophylline, effect on response to antigen in guinea-pig trachea, 95, 309

- , lack of effect of epithelium removal on potency in guinea-pig trachea, 93, 909
- , pre- and postjunctional actions in guinea-pig caecum circular muscle, 95, 653
- 2-Thiazolylethylamine, induction of marked hyperactivity response in rats, 95, 1291

Thimerosal, stimulation of cultured endothelial cells, effect on EDRF and prostacyclin release, 95, 189

Thiorphan, effect in intact and rubbed guinea-pig trachea in vitro, 93, 909

 , effect on neurokinin-induced contractions of guineapig isolated trachea, 94, 675

Thioridazine, action on stimulated striatal and limbic dopamine release. 94, 924

Thoracic aorta, rat, effect of viprostol, PGE₂ and nitroglycerin, 93, 613

Thromboxane A₂, role in the protective effect of aspirin and indomethacin in guinea-pigs, 93, 747

Thromboxane A₂ analogue, effect in dog isolated mesenteric arteries, 93, 367

Thromboxane B₂, neuroeffector actions in dog isolated mesenteric arteries, 93, 367

Thyrotrophin, effect of tyrosine on secretion in man, 95, 405 Tolbutamide, induction of insulin release in man, effect of bombesin, 94, 1023

Trachea, bovine, effect of aging on cholinergic responses in smooth muscle, 93, 918

- , dog, action of procaterol on smooth muscle tissue, 95, 268
- , dog, autoregulation of acetylcholine release from vagus nerve terminals through activation of muscarinic receptors, 93, 636
- , dog, effect of neuropeptides and capsaicin in smooth muscle, 95, 1262
- , dog, relaxing action of procaterol on smooth muscle cells, 93, 199
- , ferret, comparison of mucus flow rate, radiolabelled glycoprotein output and smooth muscle contraction in vitro, 94, 293
- , ferret, effect of peptide histidine isoleucine and neuropeptide Y on mucus volume output, 95, 49
- , guinea-pig, comparison of effects of epithelium removal or thiorphan on neurokinin-induced contractions, 94, 675
- , guinea-pig, effects of leukotriene D₄ on mechanical and electrical properties, 94, 729
- , guinea-pig, induction of relaxation by intact ATP molecule; 95, 689
- , guinea-pig, modulation of cholinergic neurotransmission by neuropeptide Y, 93, 672
- , guinea-pig, modulation of histamine responsiveness and sensitivity by epithelial prostaglandin E₂ production, 95, 300
- -, guinea-pig isolated, adenosine receptor-mediated con-

- traction and relaxation of smooth muscle, effects of adenosine antagonists, 95, 371
- , guinea-pig isolated, influence of epithelium on the responsiveness to adenosine, 93, 295
- , rat, pharmacological modulation of phospholipase
 A₂-induced airway hyperreactivity to cooling and
 ACh, 94, 1057
- Tracheal circulation, sheep, characterization of histamine H₁- and H₂-receptors, 95, 551
- Tracheal smooth muscle, bovine, β_2 -adrenoceptor stimulation of inhibition of histamine-stimulated inositol phospholipid hydrolysis, 95, 1294
- Tracheal spirals, guinea-pig, induction of bronchodilatation by cromakalim, 95, 763
- trans-Diclofurime, comparison with cardiovascular effects of other types of calcium antagonists in SH rats, 94, 1218
- Transforming growth factor-β, effect on spontaneous developing responses of rabbit aorta to des-Arg⁹-bradykinin, 93, 969
- Transient outward current, effect of Ca²⁺ in single isolated Helix central neurones, 95, 526
- Transmitter release, Zn²⁺-stimulated at mouse neuromuscular junctions, 93, 430
- Treadmill exercise, comparison of haemodynamic effects of UL-FS 49 with propranolol in dogs, 94, 55
- , production of regional myocardial contractile dysfunction in dogs, effect of nitroglycerin, 95, 1141
- Tricyclic antidepressants, blockade of N-methyl-D-aspartate receptors, 95, 95
- 1-[3-(Trifluoromethyl)phenyl]piperazine, behavioural effects mediated by central 5-HT_{1c} receptors, 94, 137
- L-Tryptophan, plus monoamine oxidase inhibitors, effect on extracellular 5-HT and behaviour, 93, 303
- , studies on mechanism by which efflux from isolated synaptosomes is stimulated by depolarization. 93, 341
- Tubocurarine, effect on neostigmine-induced tetanic fade and endplate potential run-down in phrenic nervediaphragm preparations of the mouse, 95, 1255
- 7315c Turnour cells, model for investigation of cyclic AMPmediated enhancement of prolactin, 94, 737
- Tumour necrosis factor-α, effect on spontaneous sensitization of rabbit aorta to des-Arg⁹-bradykinin, 93, 969
- Tumour promotor, analysis of stimulative effect on arachidonic acid metabolism in rat peritoneal macrophages, 94, 917
- Tyramine, effect on Paf lethality in mice, 93, 132
- —, induction of release of [3H]-NA from isolated rat atria, influence of protein kinase C, 94, 713
- Tyrosine, modulation of its actions by α -adrenoceptor blockade, 95, 405
- Twitch response, effect of P₁-purinoceptor agonists and antagonists in the mouse vas deferens in vitro, 94, 37
- Twitch tension, effect of procaterol in dog tracheal tissue, 95, 268

U

U50488, effect on nociceptive thresholds to noxious mechanical and thermal stimuli in conscious rats after i.v.,

- i.v.c. and intrathecal administration, 93, 553
- U69593, effect on nociceptive thresholds to noxious mechanical and thermal stimuli in conscious rats after i.v., i.v.c. and intrathecal administration, 93, 553
- U937 cells, antagonism of the Paf-induced rise in intracellular calcium ion concentrations, 93, 769
- UK-14304, induction of contraction of rabbit isolated ear vein, mediation by postjunctional α_2 -adrenoceptors, 94, 1085
- —, use in the characterization of α-adrenoceptors several isolated blood vessels of the rabbit. 95, 473
- , effects alone and with atenolol on experimental cardiac arrhythmias in dogs, 95, 1241
- UL-FS 49, comparison with propranolol of haemodynamic effects during treadmill exercise in dogs, 94, 55
- Ulceration, ethanol- and phenylbutazone-induced in rats, effect of sulphasalazine and PhCL28A, 93, 465
- -, gastric, induction in rats by endothelin, 95, 1011
- Umbilical vein, human, histamine-induced inward currents in cultured endothelial cells, 95, 429
- Uramil, inhibition of glucokinase in pancreatic B-cells and liver. 95, 851
- Urapidil, effect on forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- Uridine diphosphate glucuronyl transferase, studies in human liver microsomes, 94, 864
- Urinary bladder, guinea-pig, mechanism of action of nicotine, 95, 465
- Urine flow, effect of dopamine antagonists in rats infused with hypotonic saline, 93, 151
- Uterine artery, human, effect of calcium and calmodulin antagonists on contractile responses, 94, 1037
- Uterine contractions, effect of adrenoceptor agonists and antagonists in pro-oestral rat, 93, 185
- Uterus, rabbit, effect of isoprenaline on cyclic AMP levels in smooth muscle, 94, 1189
- , rat, competitive antagonistic effect of Mandevilla velutina compounds on kinin-induced contractions, 94, 1133
- rat, nifedipine kinetics and the relationship with serum concentrations, 95, 23

v

- Vagal afferent fibres, stimulation to produce increase of intragastric pressure, role of GABA_A- and GABA_B-receptors in the cat, 95, 163
- Vagal mechanisms, and the effect of indomethacin on bronchoconstrictor stimuli in the guinea-pig, 94, 522
- Vagal stimulation, gastric motor responses in the atropinetreated rabbit, 94, 1157
- production of reproducible bronchoconstriction in guinea-pigs, 95, 413
- Vagus nerve, autoregulation of ACh release through activation of muscarinic ACh terminals, 93, 636
- , cats, effects of naloxone and opioid agonists on gastric excitatory responses to stimulation, 95, 329
- Vagus nerve terminal, effect of procaterol on transmitter release in dog tracheal tissue, 95, 268

Vanadate, action on vascular tension and sodium pump activity in cat isolated cerebral and femoral arteries, 93. 53

Vas deferens, guinea-pig, comparative study of the actions of AP₅A and α , β -methylene ATP on NANC neurogenic excitation, 94, 699

 , mouse, antagonism of P₂-purinoceptor by suramin, 93, 243

 , mouse, effect of clonidine and morphine on [3H]-noradrenaline overflow, 93, 35

 , mouse, study of actions of P₁-purinoceptor agonists and antagonists in vitro, 94, 37

 --, pithed rat, blockade of responses by α, β-methylene ATP, 94, 103

 , rabbit, electrically-stimulated, effect of PD117302, 93, 618

 rat, physiological relevance of low agonist affinity binding at opioid u-receptors. 94, 625

 , rat and guinea-pig, mechanism of action of AMPinduced inhibition of sympathetic neurotransmission, 94, 961

Vascular endothelium, modulatory role in the contractility of human isolated internal mammary artery, 95, 531

Vascular permeability response, carageenin-induced in rats, role of bradykinin, 93, 739

Vascular relaxation, responses to β -adrenoceptor agonists infermoral arteries of SHR, 94, 73

Vascular resistance, effects of neuropeptides and capsaicin in canine tracheal vasculature, 95, 1262

Vascular smooth muscle, site of action of flunarizine inhibition of contractile responses of canine coronary arteries, 95, 789

Vascular tension, action of vanadate in cat isolated cerebral and femoral arteries, 93, 53

Vasoactive intestinal peptide, comparison of actions with those of isoprenaline on vascular and capsular smooth muscle of the dog spleen, 95, 664

 , induction of histamine release from human dispersed skin mast cells, 95, 121

—, responses of stomach, 93, 684

 , vasoconstrictor responses of anatomically distinct feline cerebral arteries, 94, 423

Vasoconstrictor agents, pressor responses in spontaneously hypertensive rats, effects of BRL 34915 and nifedipine, 93, 541

Vasoconstriction, ovalbumin-induced in isolated perfused guinea-pig hearts, effect of CGS 8515, 95, 1321

-, potentiation by neuropeptide Y in rat resistance arteries, 95, 419

 , reserpine-resistant, and neuropeptide Y evoked by sympathetic nerve stimulation in dog skeletal muscle, 94, 952

 responses of hepatic arterial and portal vascular beds to neuropeptide Y and peptide YY in anaesthetized dogs, 94, 1149

responses to acetaldehyde in isolated canine ear arteries, 95, 177

Vasodilatation, ACh-induced in rat superior mesenteric arterial bed, effect of phenobarbitone, 94, 977

 ACh-induced in rabbit isolated heart through the release of nitric oxide, 95, 830

 , coronary, induction in guinea-pig by ACh, A23187 and bradykinin, 95, 379 , cromakalim-induced in rabbit aorta, 95, 741

 , endothelium-dependent, blockade by lipoxygenase and cytochrome P-450-mono-oxygenase inhibitors, mechanisms of action, 93, 569

, histamine-induced in rat thoracic aorta, effect of aging,
 95, 1015

 , histamine-induced in small human arteries, mediation by H₁- and H₂-receptors, 94, 901

 , induced in dog spleen by VIP and peptide histidine isoleucine, 95, 664

— , SK & F 94836-induced in cats and dogs, 93, 893

Vasodilators, endothelium-dependent, effects on cardiac output and their distribution in the anaesthetized rat, a comparison with sodium nitroprusside, 95, 986

Vasomotor responses, heterogeneous, of anatomically distinct feline cerebral arteries, 94, 423

Vasopressin, antihaemophilic effect in sheep, in vivo assay system, 94, 279

 -- , central inhibition by γ-aminobutyric acid of release by carbachol in the rat, 93, 349

Vasopressin analogues, association with flushing in rhesus monkey, 94, 759

Vasopressor responses, mediation by P₂-purinoceptors, attenuation by nifedipine in pithed rats, 95, 695

—, pithed rat, blockade α , β -methylene ATP, 94, 103

Vasorelaxation, induction by viprostol in small mesenteric artery and vein in the rat, 93, 613

Ventilation, effect of codeine, morphine and BW443C in the unanaesthetized guinea-pig, 93, 93

Ventral tegmental area, rat, site through which dopamine D₂-receptor agonists evoke behavioural and electro-cortical sleep, 95, 860

Ventricle, canine, control of interval-force relation, study using ryanodine, 95, 811

-, effects of halothane on single myocytes, 94, 500

, guinea-pig, influence of halothane on electrical coupling in cell pairs, 94, 509

—, human, contribution of β_1 - and β_2 -adrenoceptors to effects of NA and Ad as assessed with atenolol, 95,

 , rat, NA concentrations in naive and morphine treated animals subjected to acute myocardial ischaemia, 93, 723

Ventricular depolarization, effect of bepridil in rabbit heart, 93, 775

Ventricular muscle, guinea-pig, electrical and mechanical effects of two aminosteroids, 95, 1063

Ventricular myocytes, guinea-pig, palytoxin-induced single ionic channels, 93, 811

Ventricular repolarization, effect of bepridil in rabbit heart, 93, 775

Ventromedial nucleus, rat, effects of cholesystokinin on neuronal activity, 94, 246

Verapamil, anticonvulsant effects in DBA/2 mice, 93, 247

 , comparison of cardiovascular effects with those of trans-diclofurime in SH rats, 94, 1218

 , effect on beating of primary cultures of chick heart cells, 95, 771

—, effect on canine saphenous vein after storage at -190°C, 94, 381

—, effect on contractions induced by NA, calcium and potassium in rabbit isolated aortic strips, 94, 1184

-, effect on contractions of rat isolated aorta and portal

- vein, comparison with other calcium entry blockers, 95, 145
- -, effect on phospholipase A₂-induced hyperreactivity in rat, 94, 1057
- -, effect on pressor responses to Bay K 8644, 93, 994
- -, inhibition of effects of Bay K 8644 on mouse isolated distal colon, 94, 1198
- protective effects against severe progressive hypoxia in the rat, 95, 903
- Veratridine, activation of sodium channels, interactions with benztropine, atropine and ketamine in rat brain synaptosomes, 94, 871
- Vesamicol, effect on frequency of giant m.e.p.ps induced by crotoxin in frog muscle, 94, 765
- -, study of neuromuscular effects and of its enantiomer specificity, 93, 759
- Vinca alkaloids, comparative uptake, retention and action on murine leukaemic lymphoblasts sensitive and resistant to vincristine, 93, 902
- Viprostol, effects in isolated small blood vessels and throacic aorta of the rat, 93, 613
- Vitamin K₁, effect in rabbits treated with coumarin and brodifacoum in rabbits, 94, 1077
- Vitamin K 2,3-epoxide reductase, basis for stereo-selectivity of 4-hydroxycoumarin anticoagulant activity in rats, 95, 675

W

- Wall thickening, induction by propranolol but not UL-FS 49 in dogs during treadmill exercise, 94, 55
- Warfarin, stereoselectivity of activity, role of vitamin K 2,3epoxide reductase in the rat, 95, 675
- Water diuresis, induced in rats with hypertonic saline, involvement of dopamine, 93, 131
- Water excretion, effect of chronic prazosin pretreatment after a modest saline load in anaesthetized rats, 93, 446
- -, involvement of dopamine, investigation in rats infused with hypotonic saline, 93, 131
- WB 4101, inhibition of forskolin-stimulated adenylate cyclase activity in calf hippocampus, 95, 975
- WEB 2086, effect on airway microvascular leakage in the guinea-pig and platelet aggregation in man, 94, 164

Whole cell binding, complex interactions between agonists and α_1 -adrenoceptors, 95, 1133

XYZ

- Xanthine derivatives, pre- and postjunctional actions in the guinea-pig caecum circular muscle, 95, 653
- relaxant and spamogenic effects on guinea-pig isolated trachealis muscle, 94, 1091
- Xylazine, induction of changes in cardiac output and organ vascular resistances, effect of enalapril, 94, 449
- -, responses in air-ventilated pithed rat, effect of varying artificial respiratory volume, 93, 781
- Yeast cells, induction of endothelial injury in dog isolated lung, effect on prostacyclin biosynthesis and 5-HT uptake, 93, 791
- Yohimbine, effect of endothelium on the antagonistic action in rat aorta against phenylephrine, clonidine and NA, **95**, 619
- -, effect on C-fibre-evoked blood pressure reflex in the rat, 94, 848
- effect on pressor responses to Bay K 8644, 93, 994
- -, lack of effect on inhibition induced by neuropeptide Y in guinea-pig airway, 93, 672
- -, microinfusion into locus coeruleus alteration of EEG power spectrum, effects of aging and phosphatidylserine, 95, 1278
- YM-12617, effect on the electrical and mechanical properties of capsular smooth muscle of rabbit prostate, 93,
- Zimelidine, effects of chronic oral administration on rat cortical GABA_B binding sites, 93, 331
- Zinc, stimulation of spontaneous transmitter release at mouse neuromuscular junctions, 93, 430
- Zinc recognition site, site of action of tricyclic antidepressants, 95, 95
- ZK 36374, induction of little or no release of tissue-type plasminogen activator in rat hindlimb system, 93, 156
- Zolantidine, potent selective brain-penetrating histamine H₂-receptor antagonist, 93, 69
- Zymosan, induction of endothelial injury in dog isolated lung, effect on prostacyclin biosynthesis and 5-HT uptake, 93, 791