

The *British Journal of Pharmacology* is published by Stockton Press, a division of Macmillan Press Ltd. It is the official publication of the British Pharmacological Society.

Scope The *British Journal of Pharmacology* publishes 3 volumes of 8 issues per year and is published twice a month. It welcomes contributions in all fields of experimental pharmacology including neuroscience, biochemical, cellular and molecular pharmacology. The Board of Editors represents a wide range of expertise and ensures that well-presented work is published as promptly as possible, consistent with maintaining the overall quality of the journal.

This journal is covered by Current Contents, Excerpta Medica, BIOSIS, CABS, CINAHL and Index Medicus.

Editorial Manuscripts (plus two copies) and all editorial correspondence should be sent to: The Editorial Office, *British Journal of Pharmacology*, St George's Hospital Medical School, Cranmer Terrace, London SW17 0RE, UK. Tel: +44 (0)181 767 6765; Fax: +44 (0)181 767 5645.

Advertisements Enquiries concerning advertisements should be addressed to: Robert Sloan, Advertisement Manager, 84 Arnos Grove, Southgate, London N14 7AR, UK. Tel: +44(0)181 882 7199; Fax: +44(0)181 882 7299.

Publisher All business correspondence, supplement enquiries and reprint requests should be addressed to *British Journal of Pharmacology*, Stockton Press, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Tel: +44 (0)1256 329242; Fax: +44 (0)1256 810526. Publisher: Marija Vukovojac. Production Controller: Nicci Crawley. Supplement Production Controller: Sarah Bywaters

WWW The *British Journal of Pharmacology* is on the internet at <http://www.stockton-press.co.uk>

All information on the website is free and includes: editor's details, scope, latest table of contents, subscription prices, reprint ordering, sample copy ordering, news, supplement information, contact names in publishing, production, marketing and advertising departments. Register now to have the table of contents sent to you as soon as they are updated.

Subscriptions - EU/Rest of World Subscription price per annum (3 volumes, 24 issues) £725, rest of world £800 (Surface mail) £960 (Airmail), or equivalent in any other currency. Orders must be accompanied by remittance. Cheques should be made payable to *Macmillan Journals Subscriptions Ltd* and sent to: The Subscription Department, Macmillan Press Ltd, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Where

appropriate, subscribers may make payments into UK Post Office Giro Account No. 519 2455. Full details must accompany the payment. Subscribers from EC territories should add sales tax at the local rate.

Subscriptions - USA USA subscribers call toll free 1-800-747-3187. Please send check/money order/credit card details to: Marketing Dept, Stockton Press, Houndmills, Basingstoke, Hants, RG21 6XS, UK. USA annual subscription rates (institutional/corporate): \$1240 (surface) \$1490 (air-mail). Individual making personal payment: \$260.

British Journal of Pharmacology (ISSN 0007-1188) is published twice a month by Macmillan Press Ltd, c/o Mercury Airfreight International Ltd, 2323 Randolph Avenue, Avenel, NJ 07001, USA. Subscription price for institutions is \$1240 per annum (surface). Periodicals postage is paid at Rahway NJ. Postmaster: send address corrections to Macmillan Press Ltd, c/o Mercury Airfreight International Ltd, 2323 Randolph Avenue, Avenel NJ 07001.

Reprints of any article in this journal are available from Stockton Press, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Tel: +44 (0)1256 329242; Fax: +44 (0)1256 810526.

Copyright © 1997 Stockton Press
ISSN 0007-1188

All rights of reproduction are reserved in respect of all papers, articles, illustrations, etc., published in this journal in all countries of the world.

All material published in this journal is protected by copyright, which covers exclusive rights to reproduce and distribute the material. No material published in this journal may be reproduced or stored on microfilm or in electronic, optical or magnetic form without the written authorisation of the Publisher.

Authorisation to photocopy items for internal or personal use of specific clients, is granted by Stockton Press for libraries and other users registered with the Copyright Clearance Center (CCC) Transaction Reporting Service, provided that the base fee of \$12.00 per copy is paid directly to CCC, 21 Congress St., Salem, MA 01970, USA. 0007-1188/96 \$12.00 + \$0.00.

Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the Copyright, Designs and Patent Act 1988, this publication may be reproduced, stored or transmitted, in any form or by any means, only with the prior permission in writing of the publishers, or in the case of reprographic reproduction, in accordance with the terms of licences issued by the Copyright Licensing Agency.

British Journal of Pharmacology

Proceedings Supplement

Proceedings of the British Pharmacological Society Meeting

University of Bristol

23rd–25th July 1997

INDEX TO PROCEEDINGS SUPPLEMENT

University of Bristol

23rd–25th July, 1997

Author Index

- Alderman C *see* Wan BYC, 106P
Alexander SPH *see* Cheng HY, 143P
Alexander SPH *see* Kulkarni RS, 97P
Alexander SPH *see* Neil KE, 62P
Alexander SPH *see* Smith JK, 109P
Alexander SPH *see* Smith JK, 110P
Ali A *see* Munday MK, 93P
Allcock GH, Venema RC, Pollock JS, Pollock DM Evidence for increased nitric oxide, but not endothelin-1, production in the kidneys of DOCA-salt hypertensive rats, 118P
Allen SJ *see* Bennett GS, 78P
Amrani Y *see* Farahani M, 104P
Andrews TJ *see* Laight DW, 130P
Angelini GD *see* Emsley A, 47P
Angelini GD *see* George SJ, 6P
Angelini GD *see* Lewis C, 128P
Änggård EE *see* Kengatharan KM, 155P
Änggård EE *see* Laight DW, 130P
Änggård EE *see* Laight DW, 131P
Änggård EE *see* Laight DW, 154P
Antunes E *see* Castro RC, 82P
Antunes E *see* Costa SKP, 77P
Antunes E *see* Medeiros MV, 145P
Armony T *see* Finberg JPM, 43P
Aronson JK *see* De Silva HA, 92P
Asari D *see* Iravani MM, 98P
Ashford MLJ & Harvey J Leptin activation of K_{ATP} channels is mimicked by tyrosine kinase inhibitors in CRI-G1 insulin secreting cells, 56P
Ashford MLJ *see* McKenna F, 7P
Ashmore JF *see* Rennie KJ, 91P
Asopa AV *see* Bennett GS, 78P
Assem ESK *see* Wan BYC, 106P
Aureggi G *see* Croci T, 139P
patients with temporal lobe epilepsy, 40P
Baker SR, Clark BP, Goldsworthy J, Harris JR, Kingston AE & Lodge D Metabotropic glutamate receptors (mGluR1): 2-substituted phenyl-glycines as selective antagonists, 57P
Baker SR *see* Small BG, 59P
Ballyk BA *see* Small BG, 59P
Bambal R *see* Ganellin CR, 189P
Barford D Structural studies of protein phosphatases, 179P
Beaumont V, Kelly E & Henderson G Mechanisms of somatostatin receptor desensitization in NG108-15 cells, 4P
Beaumont V *see* Molleman A, 86P
Bennett GS, Holden PH, Asopa AV, Robertson AGS, Allen SJ, Dawbarn D & Brain SD Inhibition of nerve growth factor-induced plasma extravasation in rat skin by immunoglobulin-like domains of nerve growth factor receptor trkA, 78P
Bennett GS *see* Towler PK, 172P
Bennett T *see* Gardiner SM, 115P
Bennett T *see* March JE, 116P
Benovic JL *see* Mundell SJ, 3P
Beresford IJM *see* Cutler DJ, 1P
Beresford IJM *see* Cutler DJ, 170P
Beresford IJM *see* Cutler DJ, 171P
Berthelon J-J *see* Laight DW, 130P
Bhoola KD *see* Raidoo DM, 107P
Birdsall NJM *see* Leppik RA, 69P
Birkett S *see* George SJ, 6P
Bishop PB *see* Ganellin CR, 189P
Bishop-Bailey D, Burke-Gaffney D, Hellewell PG, Evans T & Mitchell JA Interleukin (IL)-1 β -induced cyclo-oxygenase-2 activity inhibits IL-1 β -induced expression of ICAM-1- and IL-4-induced expression of VCAM-1 on saphenous vein smooth muscle cells, 21P
Bishop-Bailey D, Pepper JR, Larkin S, Evans T & Mitchell JA Differential induction of cyclo-oxygenase-2 in human arterial and venous smooth muscle cells: role of endogenous prostanoids, 19P
Bishop-Bailey D, Pepper JR, Larkin S, Evans T & Mitchell JA Interleukin-1 β induces anti-proliferative prostanoids via cyclo-oxygenase-2 in human saphenous vein and internal mammary artery smooth muscle cells, 20P
Bishop-Bailey D *see* Woods M, 18P
Bleakman D *see* Small BG, 59P
Blechacz W *see* O'Neill MF, 168P
Bleuel Z *see* Richards JG, 10P
Blue Jr DR *see* Zhu Q-M, 70P
Boersma JI, Janzen KM & Crankshaw DJ Characterization of excitatory prostanoid receptors in the human umbilical artery *in vitro*, 135P
Bonifácio MJ, Vieira-Coelho MA, Borges N & Soares-da-Silva P Kinetics of membrane bound, solubilized membrane bound and soluble forms of rat liver catechol-O-methyl-transferase, 32P
Boot JR, O'Brien A & Tran S Pharmacological studies using human voltage-dependent calcium channels, 89P
Borges N *see* Bonifácio MJ, 32P
Borges N *see* Vieira-Coelho MA, 33P
Borman RA & Hillier K Further investigation of the 5-HT_{2B} receptor in human small intestinal longitudinal smooth muscle, 138P
Börsch-Haubold A *see* Watson SP, 178P
Bos H *see* Oatey PB, 188P
Bountra C *see* Clayton NM, 27P
Bountra C *see* Evans KS, 26P
Bountra C *see* Kozłowski CM, 30P
Baird VH, Van Paesschen W, Duncan JS & Bowery NG NMDA receptor autoradiography and direct 3D-cell counting in resected hippocampus of

- Bountra C *see* Smith EJ, 75P
 Bourgeat P *see* Ganellin CR, 189P
 Bowery NG *see* Baird VH, 40P
 Bowery NG *see* Goren MZ, 83P
 Bowery NG *see* Hand K, 39P
 Bowmer CJ *see* Morton MJ, 48P
 Brain SD *see* Bennett GS, 78P
 Brain SD *see* Costa SKP, 77P
 Brain SD *see* Medeiros MV, 145P
 Brain SD *see* Towler PK, 172P
 Briddon S *see* Watson SP, 178P
 Briddon SJ & Watson SP Evidence for the involvement of an src-like kinase in signalling by a collagen-related pptide in washed human platelets, 102P
 Brown CT, Riedl AG, Watts P, Rose S & Jenner P Haem oxygenase expression in the substantia nigra of rat and marmoset, 163P
 Brown TJ *see* Yard NJ, 17P
 Bucci M *see* Cicala C, 14P
 Buckingham JC *see* Cover PO, 80P
 Buckingham JC *see* Philip JG, 81P
 Buckingham JC *see* Rhodes KF, 142P
 Buckingham R *see* Widdowson PS, 150P
 Buckingham R *see* Young P, 190P
 Buéno L *see* McLean PG, 76P
 Bufton HR, Lodge D & Kilpatrick IC Evidence for the involvement of different calcium channel subtypes in mediating transmission from primary afferent subsets in the neonatal rat spinal cord, 90P
 Bufton HR *see* Smith JJ, 60P
 Bunday RA, Jones P & Kendall DA Transfection of the noradrenaline transporter into the CATH.a cell line, 35P
 Bunday RA & Kendall DA Selective inhibition of the carbachol-induced calcium response by CRF in the CATH.a cell line, 105P
 Burke-Gaffney A *see* Bishop-Bailey D, 21P
 Bushfield M *see* Kibble A, 53P
- Caballero R *see* Delpón E, 87P
 Caballero R *see* Longobardo M, 88P
 Cao CQ, Headley PM & Evans RH Selective depression of NMDA receptor-mediated component of monosynaptic currents of rat spinal motoneurons by morphine *in vitro*, 94P
 Capner CA, Chizh BA, Herrero JF & Headley PM Comparison of the spinal versus supra-spinal antinociceptive actions of four α_2 -adrenoceptor agonists in chloralose anaesthetised rats, 71P
 Cardwell GP *see* O'Neill MJ, 157P
 Carpené C, Marti L, Fontana E, Morin N, Prevot D & Enrique-Tarancon G Effects of tyramine and β -adrenergic agonists on glucose transport in white adipocytes *in vivo* and *in vitro*, 187P
 Carpené C, Marti L, Morin N, Prevot D, Fontana E & Lafontan M Imidazoline I₂ binding sites in adipose tissue: relationship with amine oxidase activity and glucose metabolism, 183P
 Carrier M *see* Kengatharan KM, 155P
 Carrier MJ *see* Laight DW, 130P
 Carrier MJ *see* Laight DW, 131P
 Carrier MJ *see* Laight DW, 154P
 Castro RC, Landucci ECT, Giglio JR, Cirino G, Antunes E & de Nucci G Inflammatory responses induced by two secretory phospho-lipases A₂ (sPLA₂) homologues isolated from snake venom, 82P
 Castro RC *see* Medeiros MV, 145P
 Cater H *see* Dale TJ, 85P
 Challiss RAJ *see* Mistry R, 2P
 Challiss RAJ *see* Sherriffs HJ, 101P
 Chambers JP *see* Faber ESL, 36P
 Chan SLF, Smith NG & Morgan NG Development and characterization of polyclonal anti-efaroxan antibodies for use in purification of islet imidazoline receptors, 55P
 Chan SLF *see* Morgan NG, 184P
 Chan SLF *see* Tyacke RJ, 66P
 Chan SMT *see* Ganellin CR, 189P
 Chancharme L *see* Zeng B-Y, 44P
 Cheng HY, Montgomery R, Alexander SPH & Wilson VG Pre-junctional α_2 -adrenoceptors modulate the non-cholinergic motor response of the porcine isolated bladder, 143P
 Chessell IP *see* Kirkup AJ, 24P
 Chessell IP *see* Michel AD, 13P
 Chessell IP *see* Michel AD, 113P
 Chizh BA *see* Capner CA, 71P
 Cho K & Little HJ Effects of corticosterone on the activity of dopamine-sensitive neurones in the ventral tegmental area, 45P
 Choppin A, Eglen RM & Hegde SS Characterisation of muscarinic receptors in the rabbit iris sphincter muscle, 51P
 Chua CB, Harriss DR, Marsh KA & Hill SJ Rapid desensitization of muscarinic M₃, but not histamine H₁, receptors in primary human detrusor smooth muscle cells, 52P
 Chuang TT G-protein-coupled receptor kinases as possible drug targets, 176P
 Cicala C, Bucci M, De Domenicis G & Cirino G A role for thrombin and proteinase-activated receptor 1 (PAR1) in guinea-pig bronchospasm, 14P
 Cirino G *see* Castro RC, 82P
 Cirino G *see* Cicala C, 14P
- Ciucci A, Palma C, Manzini S & Werge TM Single amino acid substitution stabilizes high affinity state of the NK-1 tachykinin receptor for neurokinin A and B, 74P
 Clark AM *see* Watson WP, 167P
 Clark BP *see* Baker SR, 57P
 Clayton NM, Ward P, Munglani R, Keeling S & Bountra C Effect of the neurokinin 1 (NK₁) receptor antagonist GR205171 on adjuvant-induced inflammatory pain in the rat, 27P
 Clifford MM *see* Richards JG, 10P
 Coleman RA *see* Boersma JI, 135P
 Coleman RA *see* Crankshaw DJ, 134P
 Coleman RA *see* Popat A, 137P
 Coleman RA *see* Senchyna M, 136P
 Constanti A *see* Postlethwaite M, 84P
 Conway MW *see* O'Neill MF, 168P
 Coppel A *see* Smart D, 12P
 Coppel AL *see* Russell FD, 119P
 Correia MJ *see* Rennie KJ, 91P
 Corsi M *see* Mugnaini M, 63P
 Costa S, Pearce RKB, Jenner P & Marsden CD Intraventricular administration of glial-cell-line-derived neurotrophic factor in the MPTP-treated common marmoset, 162P
 Costa SKP, de Nucci G, Antunes E & Brain SD *Phoneutria nigriventer* spider venom induces oedema formation in rat skin by activation of capsaicin-sensitive primary afferent neurons, 77P
 Court EN *see* Warhurst DA, 148P
 Cover PO, Slater D & Buckingham JC Endotoxin-induced cyclooxygenase expression in the hypothalamo-pituitary-adrenal axis, 80P
 Cowan A & Kehner GB Antagonism by opioids of Compound 48/80-induced scratching in mice, 169P
 Crankshaw DJ & Popat A Attempts to estimate location parameters for complex concentration-effect curves in human myometrium, 134P
 Crankshaw DJ *see* Boersma JI, 135P
 Crankshaw DJ *see* Popat A, 137P
 Crankshaw DJ *see* Senchyna M, 136P
 Croci T, Manara L, Aureggi G, Guagnini F, Maffrand JP, Le Fur G, Mukenge S & Ferla G Quantitative antagonism (pA₂) by propranolol and CGP 12177A of isoprenaline relaxation of the isolated human colon provides functional evidence of β_1 -adrenoceptors, 139P
 Croucher MJ *see* Patel DR, 159P
 Cutler DJ, Beresford IJM & Southam E No evidence of melatonin-mediated alterations in cAMP levels in rat suprachiasmatic nuclei (SCN), 170P
 Cutler DJ, Mason R & Beresford IJM Melatonin MEL_{1A} receptor-mediated

- responses as measured by micro-physiometry, 171P
- Cutler DJ, Sheehan MJ & Beresford IJM Adenosine A₁ receptor dual-coupling: pertussis toxin (PTX)-sensitive and -insensitive mechanisms, 1P
- Dai W, Ebert B, Madsen U & Lambert JDC Studies of the interactions of (2S,4R)-4-methyl-glutamate and ATPO with AMPA and kainate receptors on cultured rat neurones, 61P
- Dal Forno G *see* Mugnaini M, 63P
- Dale TJ, Cater H, John VH & Xie X Comparison of the effects of the anti-convulsant drug lamotrigine with sodium valproate and gabapentin on human brain type IIa Na⁺ channels expressed in a mammalian cell line, 85P
- Davenport AP *see* Maguire JJ, 16P
- Davenport AP *see* Pierre LN, 15P
- Davenport AP *see* Russell FD, 119P
- Davey D *see* Kibble A, 53P
- Davies CH *see* Manuel NA, 95P
- Davies D *see* Dewhurst DG, 173P
- Dawbarn D *see* Bennett GS, 78P
- Dawson MM *see* Overfield JA, 156P
- De Dominicis G *see* Cicala C, 14P
- de Nucci G *see* Castro RC, 82P
- de Nucci G *see* Costa SKP, 77P
- de Nucci G *see* Medeiros MV, 145P
- De Silva HA & Aronson JK Interaction between the Na⁺/K⁺/2Cl⁻ and K⁺/Cl⁻ co-transporters in human platelets, 92P
- Deakin JFW *see* Grimwood S, 160P
- Delpón E *see* Longobardo M, 88P
- Delpón E, Caballero R, Valenzuela C, Franqueza L, Longobardo M, Snyders DJ & Tamargo J Dual effects of benzocaine on a human cardiac cloned potassium channel (hKv1.5), 87P
- Dewhurst DG & Davies D A foundation level computer-based interactive tutorial to introduce the physiology of the endocrine system, 173P
- Dewhurst DG & Mistri S Muscle physiology: an interactive tutorial based on experiments conducted on frog sciatic nerve-gastrocnemius muscle preparation, 174P
- Dhir S *see* Kengatharan KM, 155P
- Dobson SP *see* Oatey PB, 188P
- Duncan J *see* Hand K, 39P
- Duncan JS *see* Baird VH, 40P
- Dunn WR *see* Lawrence RN, 140P
- Ebert B *see* Dai W, 61P
- Eglen RM *see* Choppin A, 51P
- Eglen RM *see* Zhu Q-M, 70P
- Eldursi N, Mellor IR & Usherwood PNR Comparison of NMDA receptors expressed in *Xenopus laevis* oocytes following injection of rat brain RNA and mRNA encoding the NR1A subunit, 64P
- Elliott JM *see* Mitchell AL, 9P
- Ellis GJ *see* Richards JG, 10P
- Emsley A, Plane F, Angelini GD & Jeremy JY Copper interacts with homocysteine to inhibit nitric oxide formation in the rat isolated aorta, 47P
- Enrique-Tarancon G *see* Carpené C, 187P
- Eshragi HR & Zeitlin IJ Bradykinin release in the isolated perfused bovine mammary gland, 147P
- Evans KS, Scott CM & Bountra C The effect of ibuprofen, morphine and amitriptyline on carrageenan-induced cutaneous hypersensitivity in the anaesthetised rat, 26P
- Evans NM, Kingston A & Lodge D Ligands of group 1 metabotropic glutamate receptors (mGluRs) exhibit low affinity binding characteristics to mGluR1α, 58P
- Evans RH *see* Cao CQ, 94P
- Evans RH *see* Faber ESL, 36P
- Evans RH *see* Pozza MF, 29P
- Evans T *see* Bishop-Bailey D, 19P
- Evans T *see* Bishop-Bailey D, 20P
- Evans TW *see* Woods M, 18P
- Faber ESL, Chambers JP & Evans RH Effect of dexmedetomidine on NMDA receptor-mediated synaptic transmission in the neonatal rat hemisectioned spinal cord preparation *in vitro*, 36P
- Facchinetti P *see* Ganellin CR, 189P
- Falati S, Vink T, Sixma J & Poole AW Von Willebrand factor induces tyrosine phosphorylation of the tyrosine kinase Syk, p95vav and phospholipase Cγ2 in human platelets, 103P
- Farahani M, Amrani Y, Panettieri R & Hall IP Protein kinase A-dependent modulation of histamine H₁ receptor coupling in cultured human airway smooth muscle cells, 104P
- Ferla G *see* Croci T, 139P
- Ferro A, Queen LR & Ritter JM Isoprenaline activates adenylyl cyclase in human umbilical vein endothelial cells through selective stimulation of β₂-adrenoceptors, 11P
- Finberg JPM, Armony T & Lamensdorf I Microdialysis study of the modification of striatal dopamine release by chronic treatment with selective inhibitors of MAO-A and MAO-B in the guinea-pig, 43P
- Fioramonti J *see* McLean PG, 76P
- Fletcher EJ *see* Lummis SCR, 5P
- Flower RJ *see* Philip JG, 81P
- Fontana E *see* Carpené C, 183P
- Fontana E *see* Carpené C, 187P
- Franqueza L *see* Delpón E, 87P
- Franqueza L *see* Longobardo M, 88P
- Ganellin CR, Rose C, Vargas F, Facchinetti P, Bourgeat P, Bambal R, Bishop PB, Chan SMT, Moore ANJ & Schwartz J-C Rational design of butabindide, the first inhibitor of the cholecystokinin (CCK-8) inactivating peptides, 189P
- Garcia-Sevilla JA Imidazoline receptors in human brain, 182P
- Garcia-Villar R *see* McLean PG, 76P
- Gardiner SM, Kemp PA, March JE & Bennett T Regional haemodynamic effects of human adrenomedullin-(22–52) in the conscious rat, 115P
- Gardiner SM *see* March JE, 116P
- Garland CJ *see* Hewitt N, 122P
- Garland CJ *see* Lewis C, 127P
- Garland CJ *see* Lewis C, 128P
- Garland CJ *see* Smith JJ, 46P
- Garland CJ *see* Yard NJ, 17P
- Ge J, Kilpatrick IC, Long S, Toms NJ & Roberts PJ Effects of the mGlu Receptor agonist (1S,3S)-ACPD on glutamate, aspartate and glycine release in the nucleus accumbens and striatum of the rat, 158P
- George SJ, Birkett S, Jeremy JY & Angelini GD Depletion of intracellular calcium pools with thapsigargin inhibits the migration of A7r5 cells *in vitro*, 6P
- Giese U *see* O'Neill MF, 168P
- Giglio JR *see* Castro RC, 82P
- Gobert J *see* Guyaux M, 114P
- Golding N *see* Mistry R, 2P
- Goldsworthy J *see* Baker SR, 57P
- Gomes P, Serrão MP, Vieira-Coelho MA & Soares-da-Silva P Competitive and non-competitive inhibition of L-3,4-dihydroxyphenylalanine uptake in cultured opossum kidney cells, 133P
- Goodwin PA, Richards CD & Wann KT Single channel activity in excised inside-out patches from rat hippocampal neurones, 8P
- Gopaul N *see* Kengatharan KM, 155P
- Goren MZ, Richards DA, Turner H & Bowery NG Extracellular GABA levels are increased in brain regions associated with the generation of absence seizures, 83P
- Gould GW *see* Oatey PB, 188P
- Grahame-Smith DG *see* Mitchell AL, 9P
- Green T *see* Lummis SCR, 5P
- Grimwood S, Slater P, Deakin JFW &

- Hutson PH Selective regional increase in cortical *N*-methyl-D-aspartate receptor glycine sites in schizophrenia, 160P
- Grundy D *see* Kirkup AJ, 24P
- Grundy D *see* Kozlowski CM, 30P
- Guagnini F *see* Croci T, 139P
- Guyaux M, Gobert J, Noyer M, Vandeveld M & Wülfert E Mivazerol prevents the tachycardia caused by emergence from halothane anaesthesia partly through activation of spinal α_2 -adrenoceptors, 114P
- Hall IP *see* Farahani M, 104P
- Hall JM *see* Rennie KJ, 91P
- Hamilton LC, Mitchell JA & Warner TD Induction of COX-2 *in vivo* leads to greatly increased production of 6-keto-PGF_{1 α} following administration of exogenous arachidonic acid or bradykinin, 22P
- Hand K, Simmonds MA, Bowery NG, Van Paesschen W & Duncan J Increased expression of mRNA encoding GABA_A receptor subunits α_1 and α_2 associated with hippocampal sclerosis in human patients with temporal lobe epilepsy, 39P
- Harb HL & Moore PK Effect of 7-nitroindazole on endothelium-dependent responses in the rat mesentery in the presence and absence of allopurinol, 125P
- Harris JR *see* Baker SR, 57P
- Harris NC *see* Perkin-Ball J, 144P
- Harrison J *see* Overfield JA, 156P
- Harriss DR *see* Chua CB, 52P
- Harvey J *see* Ashford MLJ, 56P
- Headley PM *see* Cao CQ, 94P
- Headley PM *see* Capner CA, 71P
- Headley PM *see* McClean M, 72P
- Heal D *see* Wortley KE, 100P
- Hegde SS *see* Choppin A, 51P
- Hellewell PG *see* Bishop-Bailey D, 21P
- Henderson G *see* Beaumont V, 4P
- Henderson G *see* Khakh BS, 25P
- Henderson G *see* Molleman A, 86P
- Henderson L *see* Widdowson PS, 150P
- Hernández F *see* Neil KE, 62P
- Herrero JF *see* Capner CA, 71P
- Hewitt N, Plane F & Garland CJ Bioassay of EDHF in the rabbit isolated femoral artery, 122P
- Hibell AD *see* Michel AD, 113P
- Hiley CR *see* White R, 23P
- Hill SJ *see* Chua CB, 52P
- Hillier K *see* Borman RA, 138P
- Hinton JM *see* Nejad M, 108P
- Holden PH *see* Bennett GS, 78P
- Holst JJ The treatment of diabetes with glucagon-like peptide (GLP1), 191P
- Hoo K *see* Small BG, 59P
- Hourani SMO *see* Tennant JP, 146P
- Hudson AL, Lallies MD, Lione LA, Tyacke RJ, Lewis JW & Nutt DJ New ligands for studying imidazoline receptors, 180P
- Hudson AL *see* Chan SLF, 55P
- Hudson AL *see* Lallies MD, 67P
- Hudson AL *see* Lione LA, 65P
- Hudson AL *see* Parker CA, 68P
- Hudson AL *see* Tyacke RJ, 66P
- Hughes ZA & Stanford CS A serotonergic lesion does not affect inhibition of uptake of [³H]-noradrenaline into rat cortical synaptosomes by fluoxetine, citalopram and desipramine, 99P
- Hughes ZA *see* Wortley KE, 100P
- Humphrey PPA *see* Kirkup AJ, 24P
- Humphrey PPA *see* Michel AD, 13P
- Humphrey PPA *see* Michel AD, 113P
- Hutson PH *see* Grimwood S, 160P
- Hutson PH *see* Patel S, 166P
- Iravani MM, Asari D, Patel J, Wiczorek WJ & Kruk ZL Effects of 3,4-methylenedioxymethamphetamine on dopamine and serotonin release and uptake, 98P
- Jane DE *see* Pinkney JM, 37P
- Janzen KM *see* Boersma JJ, 135P
- Jelic P & Taberner PV Effects of isradipine and nitrendipine on hormone-sensitive lipase activity and lipogenic rate of brown and white adipose tissue in mice, 152P
- Jenner P *see* Brown CT, 163P
- Jenner P *see* Costa S, 162P
- Jenner P *see* Owen AD, 164P
- Jenner P *see* Tel BC, 161P
- Jenner P *see* Zeng B-Y, 44P
- Jeremy JY *see* Emsley A, 47P
- Jeremy JY *see* George SJ, 6P
- John VH *see* Dale TJ, 85P
- John VH *see* Trezise DJ, 31P
- Jones P *see* Bunday RA, 35P
- Kadowaki S *see* Upton R, 149P
- Kaiser M *see* Tuladhar BR, 50P
- Kaiser S, Soliakov L & Wonnacott S Inhibition of the nicotinic stimulation of dopamine release from the rat striatum *in vitro* by α -conotoxin-MII, an antagonist selective for the $\alpha 3\beta 2$ nicotinic receptor subtype, 165P
- Kamboj R *see* Small BG, 59P
- Kaw AV *see* Laight DW, 131P
- Kaw AV *see* Laight DW, 154P
- Keeling S *see* Clayton NM, 27P
- Kehner GB *see* Cowan A, 169P
- Kelly E *see* Beaumont V, 4P
- Kelly E *see* Mundell SJ, 3P
- Kelly E *see* Mundell SJ, 111P
- Kemp PA *see* Gardiner SM, 115P
- Kemp PA *see* March JE, 116P
- Kendall DA *see* Bunday RA, 35P
- Kendall DA *see* Bunday RA, 105P
- Kendall DA *see* Kulkarni RS, 97P
- Kendall DA *see* Neil KE, 62P
- Kendall DA *see* Randall MD, 123P
- Kendall DA *see* Randall MD, 124P
- Kendall DA *see* Roberts RE, 126P
- Kengatharan KM, Gopaul N, Dhir S, Pettersson K, Carrier M & Ånggård EE Inhibition of 8-epi-prostaglandin F_{2 α} production by vitamin E is associated with the reversal of endothelial dysfunction in the cholesterol-fed rabbit, 155P
- Kennard C *see* Rhodes KF, 142P
- Khakh BS & Henderson G Interactions between P2X receptors and the hyperpolarisation-activated cationic current (I_h) in sensory neurones of the rat, 25P
- Kibble A, Morrison J, Davey D & Bushfield M Facilitation of neuronally-mediated contractions of the rat urinary bladder *in vitro* by tachykinin NK₁ and NK₂ but not NK₃ receptor activation, 53P
- Kilpatrick IC *see* Bufton HR, 90P
- Kilpatrick IC *see* Ge J, 158P
- Kilpatrick IC *see* Smith JJ, 60P
- Kingston A *see* Evans NM, 58P
- Kingston AE *see* Baker SR, 57P
- Kingston WP *see* Pinkney JM, 37P
- Kirkup AJ, Grundy D, Chessell IP & Humphrey PPA Characterisation of the receptor mediating the excitatory action of adenosine on mesenteric afferents, 24P
- Klingelschmidt A *see* Richards JG, 10P
- Knittle DE *see* Zhu Q-M, 70P
- Kozlowski CM, Grundy D, Bountra C & Trezise D The effect of deoxycholic acid on dorsal horn responses to colorectal distension and cutaneous mechanical stimulation, and the effect of MK-801, in the anaesthetised rat, 30P
- Kruk ZL *see* Iravani MM, 98P
- Kulkarni RS, Roe CH, Kendall DA & Alexander SPH Effects of L-serine-O-phosphate on dopamine overflow in rat striatum *in vivo* and *in vitro*, 97P
- Kunikowska GM *see* Owen AD, 164P
- Lafontan M *see* Carpené C, 183P
- Laight DW, Berthelon JJ, Andrews TJ, Carrier M & Ånggård EE Assessment of superoxide anion scavenging activity of some common spin traps at physiological temperature and pH by microassay *in vitro*, 130P
- Laight DW, Kaw AV, Carrier M & Ånggård EE Cu/Zn superoxide dismutase activity preserves basal endothelial function in the rat aorta

- in vitro*, 131P
- Laight DW, Kaw AV, Carrier M & Anggård EE Regulation of endothelial function by insulin in the aorta of the obese/lean Zucker rat *in vitro*, 154P
- Lalies MD, Nutt DJ & Hudson AL Chronic clorgyline and deprenyl treatment decrease imidazoline₂ site density in rat interpeduncular nucleus, 67P
- Lalies MD *see* Hudson AL, 180P
- Lambert JDC *see* Dai W, 61P
- Lamensdorf I *see* Finberg JPM, 43P
- Landucci ECT *see* Castro RC, 82P
- Lanier SM *see* Parini A, 181P
- Larkin S *see* Bishop-Bailey D, 19P
- Larkin S *see* Bishop-Bailey D, 20P
- Lawrence RN, Dunn WR & Wilson VG Evidence for different mechanisms of relaxation by ethanol in isolated pulmonary and coronary arteries from the pig, 140P
- Lazareno S *see* Leppik RA, 69P
- Le Fur G *see* Croci T, 139P
- Leppik RA, Lazareno S, Mynett A & Birdsall NJM The allosteric interactions of antagonists with amiloride analogues at the human α_2 -adrenoceptor, 69P
- Lewis C, Garland CJ, Angelini GD & Plane F Functional assessment of the freshly isolated porcine saphenous vein, 128P
- Lewis C, Garland CJ & Plane F Effect of a combination of nitric oxide synthase inhibitors and potassium channel blockers on the acetylcholine relaxation in rabbit mesenteric arteries, 127P
- Lewis JW *see* Hudson AL, 180P
- Libri V *see* Postlethwaite M, 84P
- Lione LA, Nutt DJ & Hudson AL Autoradiographical localisation of imidazoline I₂ sites labelled with [³H]2-(2-benzofuranyl)-2-imidazoline in rabbit brain, 65P
- Lione LA *see* Hudson AL, 180P
- Little HJ *see* Cho K, 45P
- Little HJ *see* Smith JW, 41P
- Little HJ *see* Watson WP, 42P
- Little HJ *see* Watson WP, 167P
- Lodge D *see* Baker SR, 57P
- Lodge D *see* Bufton HR, 90P
- Lodge D *see* Evans NM, 58P
- Lodge D *see* Small BG, 59P
- Long S *see* Ge J, 158P
- Longobardo M, Franqueza L, Caballero R, Delpón E, Tamargo J & Valenzuela C Block of hKv1.5 channels by R(+)-ropivacaine and R(-)-mepivacaine: structure-activity relationship, 88P
- Longobardo M *see* Delpón E, 87P
- Lummis SCR, Fletcher EJ & Green T Identification of amino acids in the N-methyl-D-aspartate (NMDA) receptor NR2 subunit that contribute to the glutamate binding site, 5P
- Luty J *see* Mundell SJ, 3P
- McArdle C *see* George SJ, 6P
- McClellan M, Headley PM & Parsons CG Mrz 2/576, a glycine_B site antagonist, blocks spinal neuronal responses and shows analgesic properties in behavioural tests, 72P
- McCulloch AI & Randall MD Effect of gender on the relative contributions of nitric oxide and EDHF to endothelium-dependent relaxations in rat isolated mesenteric arterial bed, 120P
- McCulloch AI & Randall MD Relative contributions of nitric oxide and EDHF to endothelium-dependent relaxations in the isolated perfused mesenteric bed from normotensive and hypertensive Brattleboro rats, 121P
- McCulloch AI *see* Randall MD, 124P
- McDonald BJ *see* Woollorton JRA, 38P
- McKenna F & Ashford MLJ Imidazole antimycotics inhibit BK_{Ca} channels stably expressed in HEK 293 cells, 7P
- McKnight AT *see* Nicholson JR, 28P
- McKnight AT *see* Smart D, 12P
- McLean PG, Garcia-Villar R, Fioramonti J & Buéno L Characterisation of the tachykinin receptors mediating the jejunal distension-induced visceral pain reflex in rats, 76P
- Madsen U *see* Dai W, 61P
- Maffrand JP *see* Croci T, 139P
- Maguire JJ & Davenport AP Preservation of functional responses of human coronary arteries to ET-1 and 5-HT after 14 days in organ culture, 16P
- Malherbe P *see* Richards JG, 10P
- Manara L *see* Croci T, 139P
- Mandelzys A *see* Small BG, 59P
- Manechez D *see* Shih M-F, 54P
- Manuel NA & Davies CH Pharmacological modulation of depolarizing GABA_A receptor-mediated IPSPs in rat hippocampal CA1 pyramidal neurones, 95P
- Manzini S *see* Ciucci A, 74P
- March JE, Gardiner SM, Kemp PA & Bennett T Cardiovascular responses to N-nitro-L-arginine methyl ester (L-NAME) in conscious, hypertensive transgenic [(mRen-2)27] rats, 116P
- March JE *see* Gardiner SM, 115P
- Markham A *see* Menton K, 49P
- Markham A *see* Menton K, 112P
- Marsden CA *see* Thongsaard W, 141P
- Marsden CD *see* Costa S, 162P
- Marsden CD *see* Owen AD, 164P
- Marsden CD *see* Tel BC, 161P
- Marsden CD *see* Zeng B-Y, 44P
- Marsh KA *see* Chua CB, 52P
- Marshall DL, Redfern PH & Wonnacott S Influence of nicotine on caffeine-stimulated dopamine release from rat striatum and nucleus accumbens, 96P
- Marti L *see* Carpené C, 183P
- Marti L *see* Carpené C, 187P
- Mason K *see* Wortley KE, 100P
- Mason R *see* Cutler DJ, 171P
- Mason R *see* Munday MK, 93P
- Medeiros MV, Castro RC, Brain SD, Antunes E & de Nucci G The eosinophil recruitment in bronchoalveolar lavage fluid and pleural cavity from rats treated with capsaicin as neonates, 145P
- Mellor IR *see* Eldursi N, 64P
- Menton K, Morgan RM, Spedding M & Markham A Disruption of energy metabolism by pyridylisatogen is mediated by the mitochondrial permeability transition in rat hepatic mitochondria, 112P
- Menton K, Morgan RM, Spedding M & Markham A Further characterisation of the antagonistic action of pyridylisatogen on the isolated taenia of the guinea-pig caecum, 49P
- Messer J *see* Richards JG, 10P
- Mest H-J *see* O'Neill MF, 168P
- Michael-Titus AT, Whelpton R, Stephens SM & Yau KW Metabolism of substance P in rat striatum studied using a combination of high performance liquid chromatography (HPLC) and capillary electrophoresis (CE), 79P
- Michel AD, Chessell IP & Humphrey PPA Potent inhibition of P2Z (P2X₇) receptor-mediated effects by copper, zinc and nickel ions, 13P
- Michel AD, Hibell AD, Chessell IP & Humphrey PPA Identification and characterisation of endogenous P2Z (P2X₇) receptors in CHO-K1 cells, 113P
- Mistri S *see* Dewhurst DG, 174P
- Mistry R, Golding N & Challiss RAJ Regulation of phosphoinositide turnover in neonatal cerebral cortex by group I- and II-selective metabotropic glutamate receptor agonists, 2P
- Mitchell AL, Phipps S, Grahame-Smith DG & Elliott JM Novel regulation of human 5-HT_{2A} receptors by mesulergine *in vitro*, 9P
- Mitchell JA *see* Bishop-Bailey D, 19P
- Mitchell JA *see* Bishop-Bailey D, 20P
- Mitchell JA *see* Bishop-Bailey D, 21P
- Mitchell JA *see* Hamilton LC, 22P
- Mitchell JA *see* Woods M, 18P
- Molleman A, Beaumont V & Henderson

- G Opioid receptor activation does not modulate potassium channel current in NG108-15 and SH-SY5Y cells, 86P
- Montgomery R *see* Cheng HY, 143P
- Moore ANJ *see* Ganellin CR, 189P
- Moore PK *see* Harb HL, 125P
- Moore PK *see* Towler PK, 172P
- Morgan NG, Chan SLF & Mourtada M Imidazoline receptors in the endocrine pancreas: possible therapeutic targets?, 184P
- Morgan NG *see* Chan SLF, 55P
- Morgan NG *see* Tyacke RJ, 66P
- Morgan RM *see* Menton K, 49P
- Morgan RM *see* Menton K, 112P
- Morin N *see* Carpené C, 183P
- Morin N *see* Carpené C, 187P
- Morris R *see* Suthamnatpong O, 73P
- Morrison J *see* Kibble A, 53P
- Morton MJ, Sivaprasadarao A, Bowmer CJ & Yates MS Adenosine receptor mRNA levels during post-natal maturation of rat kidney, 48P
- Moss SJ *see* Woollorton JRA, 38P
- Mourtada M *see* Morgan NG, 184P
- Mugnaini M, Dal Forno G, Corsi M & Trist DG Receptor binding characteristics of the novel NMDA receptor glycine site antagonist [³H]-GV 150526A in rat cerebral cortical membranes, 63P
- Mukenge S *see* Croci T, 139P
- Mundell SJ, Luty J, Benovic JL & Kelly E Overexpression of G protein-coupled receptor kinase A_{2A} enhances the sensitivity of adenosine A receptors to desensitisation, 3P
- Mundell SJ & Kelly E Inhibitors of receptor internalization block adenosine A_{2A} receptor resensitization, 111P
- Mundey MK, Ali A, Mason R & Wilson VG A comparison of the effects of morphine and naloxone on ventral tegmental area, locus coeruleus and suprachiasmatic nucleus neuronal activity *in vitro*, 93P
- Munglani R *see* Clayton NM, 27P
- Murray K Inhibition of mitogen-activated protein kinase pathways, 177P
- Mutel V *see* Richards JG, 10P
- Mynett A *see* Leppik RA, 69P
- Nahorski SR *see* Sherriffs HJ, 101P
- Naidoo S *see* Raidoo DM, 107P
- Naylor RJ *see* Tuladhar BR, 50P
- Neil KE, Hernández F, Kendall DA & Alexander SPH Differentiation of KCl-, NMDA- and glutamate-evoked cGMP accumulations in the guinea-pig cerebellum, 62P
- Nejad M, Hinton JM, Rice JL & Osborne RH Muscarinic receptors in the locust foregut are linked to inositol phosphates and diacylglycerol, 108P
- Nicholson JR, Paterson SJ & McKnight AT The effect of nociceptin analogues and a novel hexapeptide agonist at the ORL₁ receptor in central and peripheral sites, 28P
- Nixon J Inhibitors of protein kinase C: their biology and pharmacology, 175P
- Noyer M *see* Guyaux M, 114P
- Nutt DJ *see* Hudson AL, 180P
- Nutt DJ *see* Lallies MD, 67P
- Nutt DJ *see* Lione LA, 65P
- Nutt DJ *see* Parker CA, 68P
- Nutt DJ *see* Tyacke RJ, 66P
- Oatey PB, van Weering D, Dobson SP, Bos H, Gould GW & Tavaré JM Imaging GLUT4 trafficking in single living cells using green fluorescent protein, 188P
- O'Brien A *see* Boot JR, 89P
- O'Callaghan MJ *see* Watson WP, 167P
- Olpe H-R *see* Pozza MF, 29P
- O'Neill MF, Conway MW, Giese U, Mest H-J & Blechacz W Lack of effect of selective imidazoline I₂ ligands in forced swim test in mice, 168P
- O'Neill MF *see* O'Neill MJ, 157P
- O'Neill MJ, Shaw G, Cardwell GP, Ward M & O'Neill MF Effects of 7-nitroindazole and L-NAME on MK-801-induced behavioural changes and immediate early gene expression in the mouse, 157P
- Oriowo MA *see* Yousif MH, 117P
- Osborne RH *see* Nejad M, 108P
- Overfield JA, Harrison J & Dawson MM Attenuation of cytokine-stimulated fibrinogen synthesis in Hep G2 cells by IL 1 α and clofibrate, 156P
- Owen AD, Kunikowska GM, Rose S, Jenner P & Marsden CD Chronic glutathione depletion does not induce MPTP toxicity in the rat, 164P
- Palma C *see* Ciucci A, 74P
- Panettieri R *see* Farahani M, 104P
- Parini A, Raddatz R, Remaury A & Lanier SM Molecular aspects and properties of imidaxoline receptors, 181P
- Parker CA, Hudson AL & Nutt DJ Autoradiography of [³H]-mivazerol binding in the rat heart, 68P
- Parsons CG *see* McClean M, 72P
- Patel DR, Young AMJ & Croucher MJ Evidence for cyclothiazide-insensitive presynaptic AMPA receptors in the rat striatum *in vivo*, 159P
- Patel J *see* Iravani MM, 98P
- Patel S & Hutson PH Modulation of nicotinic acetylcholine receptor binding to adult and aged rat brain by galanin, 166P
- Paterson SJ *see* Nicholson JR, 28P
- Pearce RKB *see* Costa S, 162P
- Pearce RKB *see* Tel BC, 161P
- Pearce RKB *see* Zeng B-Y, 44P
- Peh KH *see* Wan BYC, 106P
- Pepper JR *see* Bishop-Bailey D, 19P
- Pepper JR *see* Bishop-Bailey D, 20P
- Pepper JR *see* Bishop-Bailey D, 21P
- Pepper JR *see* Woods M, 18P
- Perkin-Ball J & Harris NC Is there evidence for GABA_B receptor subtypes in the rat anococcygeus muscle?, 144P
- Pettersson K *see* Kengatharan KM, 155P
- Pfeiffer B *see* Shih M-F, 54P
- Philip JG, Flower RJ & Buckingham JC The cellular expression of lipocortin 1 is unaffected by drugs which block the classical pathway of protein secretion, 81P
- Phipps S *see* Mitchell AL, 9P
- Pierre LN & Davenport AP Importance of constrictor ET_A receptors in pial artery from human brain revealed by potent nonpeptide endothelin antagonists, 15P
- Pinkney JM, Kingston WP, Jane DE, Watkins JC & Pook PC-K Characterisation of novel phenylglycines for subgroup I metabotropic glutamate receptors on the neonatal rat spinal cord preparation, 37P
- Plane F *see* Emsley A, 47P
- Plane F *see* Hewitt N, 122P
- Plane F *see* Lewis C, 127P
- Plane F *see* Lewis C, 128P
- Plane F *see* Smith JJ, 46P
- Pollock DM *see* Allcock GH, 118P
- Pollock JS *see* Allcock GH, 118P
- Pook PC-K *see* Pinkney JM, 37P
- Poole AW *see* Falati S, 103P
- Popat A & Crankshaw DJ Variable responses to prostanoid EP receptor agonists in non-pregnant human myometrium *in vitro*, 137P
- Popat A *see* Crankshaw DJ, 134P
- Postlethwaite M, Constanti A & Libri V Epileptiform potentials induced by muscarinic but not metabotropic-glutamate receptor activation in immature rat olfactory cortex, *in vitro*, 84P
- Pozza MF, Schoeffel C, Olpe H-R & Evans RH Antagonist potency of the NK1 receptor antagonist CGP49823 at spinal motoneurons, 29P
- Prévot D *see* Carpené C, 183P
- Prévot D *see* Carpené C, 187P
- Queen LR *see* Ferro A, 11P

- Raddatz R *see* Parini A, 181P
 Raidoo DM, Ramsaroop R, Naidoo S & Bhoola KD Visualisation of tissue kallikrein and kinin receptors in human astrocytomas, 107P
 Ramsaroop R *see* Raidoo DM, 107P
 Ramsden CA *see* Tyacke RJ, 66P
 Randall MD, McCulloch AI & Kendall DA Comparative pharmacology of EDHF-mediated and anandamide-induced vasorelaxation in the rat isolated superior mesenteric arterial bed, 124P
 Randall MD & Kendall DA The involvement of an endocannabinoid in EDHF-mediated vaso-relaxation in the rat isolated perfused heart, 123P
 Randall MD *see* McCulloch AI, 120P
 Randall MD *see* McCulloch AI, 121P
 Redfern PH *see* Marshall DL, 96P
 Reid JL Imidazline receptors in hypertension, 185P
 Remaury A *see* Parini A, 181P
 Rennie KJ, Ashmore JF & Correia MJ Evidence for a Na/K/2Cl cotransporter in type 1 hair cells isolated from the mammalian vestibular system, 91P
 Rhodes KF, Buckingham JC & Kennard C Inhibition of nicotine-evoked relaxation of the guinea-pig isolated basilar artery by indomethacin, aspirin and nitro-L-arginine methyl ester, 142P
 Rice JL *see* Nejad M, 108P
 Richards CD *see* Goodwin PA, 8P
 Richards DA *see* Goren MZ, 83P
 Richards JG, Messer J, Bleuel Z, Malherbe P, Klingelschmidt A, Clifford MM, Ellis GJ & Mutel V *In vitro* binding characteristics of a potent, selective AMPA receptor antagonist [³H]-Ro 48-8587, 10P
 Riedl AG *see* Brown CT, 163P
 Ritter JM *see* Ferro A, 11P
 Roach AG *see* Yard NJ, 17P
 Roberts P *see* McLean PG, 76P
 Roberts PJ *see* Ge J, 158P
 Roberts RE, Kendall DA & Wilson VG Evidence for α_2 -adrenoceptor-mediated vasoconstriction in porcine isolated ear artery, 126P
 Robertson AGS *see* Bennett GS, 78P
 Roe CH *see* Kulkarni RS, 97P
 Rose C *see* Ganellin CR, 189P
 Rose S *see* Brown CT, 163P
 Rose S *see* Owen AD, 164P
 Rubin PC *see* Farahani M, 104P
 Rubio A *see* Small BG, 59P
 Russell FD, Coppel AL & Davenport AP *In vitro* evidence for endothelin converting enzyme activity in human kidney, 119P
 Salvage S *see* Zeng B-Y, 44P
 Samuel EJ *see* Tennant JP, 146P
 Schoeffel C *see* Pozza MF, 29P
 Schwartz J-C *see* Ganellin CR, 189P
 Scott CM *see* Evans KS, 26P
 Scott CM *see* Smith EJ, 75P
 Senchyna M & Crankshaw DJ Effect of excision site and menstrual status on the response of non-pregnant human myometrium *in vitro* to U46619, 136P
 Serrão MP *see* Gomes P, 133P
 Serrão MP *see* Soares-da-Silva P, 34P
 Sharpe EF *see* Small BG, 59P
 Shaw G *see* O'Neill MJ, 157P
 Sheehan MJ *see* Cutler DJ, 1P
 Sherriffs HJ, Challiss RAJ & Nahorski SR Stimulation of a prolonged, non-desensitizing phospholipase D activity in Chinese hamster ovary (CHO) cells heterologously expressing -m1 or -m3 muscarinic cholinergic receptors, 101P
 Shih M-F, Williams CA, Pfeiffer B, Manechez D & Taberner PV Effects of S-22068, an imidazoline derivative, on acute glucose tolerance and plasma insulin levels in mice, 54P
 Shih M-F, Williams CA, Stone D & Taberner PV Effect of subchronic SR 58611A on glucose tolerance and insulin sensitivity in normal mice, 151P
 Shih M-F & Taberner PV Potentiation of glucose tolerance and insulin sensitivity by SR 58611A, a selective β_2 adrenoceptor agonist, in normal mice, 153P
 Simmonds MA *see* Hand K, 39P
 Sivaprasadarao A *see* Morton MJ, 48P
 Sixma J *see* Falati S, 103P
 Slater D *see* Cover PO, 80P
 Slater P *see* Grimwood S, 160P
 Small BG, Baker SR, Rubio A, Sharpe EF, Ballyk BA, Hoo K, Mandelzys A, Kamboj R, Lodge D & Bleakman D LY339434, a GluR5-selective kainate receptor agonist, 59P
 Smart D, Coppel A & McKnight AT Characterisation using the Cytosensor micro-physiometer of recombinant human corticotrophin-releasing factor (CRF) receptor pharmacology, 12P
 Smart TG *see* Woollorton JRA, 38P
 Smith EJ, Scott CM & Bountra C The neurokinin 1 (NK₁) receptor antagonist GR205171 reduces carrageenan-evoked Fos-like immunoreactivity in the rat lumbar spinal cord, 75P
 Smith JJ, Bufton HR & Kilpatrick IC Activation of group III metabotropic glutamate receptors is unlikely to account for quisqualate-induced sensitisation to L-2-amino-4-phosphobutanoate in neonatal rat spinal cord, 60P
 Smith JJ, Plane F & Garland CJ Modulation of cyclic GMP-mediated dilatation in the rat isolated mesenteric artery by basally released nitric oxide, 46P
 Smith JK & Alexander SPH Modulation of A_{2B} adenosine receptor-evoked cyclic AMP generation in the guinea-pig cerebral cortex, 110P
 Smith JK & Alexander SPH Time dependency and agonist selectivity for reduction of A_{2B} adenosine receptor-evoked cyclic AMP responses in the guinea-pig cerebral cortex, 109P
 Smith JW, Watson WP, Stephens DN & Little HJ Effect of the calcium channel antagonist, nimodipine, in decreasing responding for the oral self administration of low concentrations of ethanol, 41P
 Smith LA *see* Zeng B-Y, 44P
 Smith NG *see* Chan SLF, 55P
 Smith SA *see* Young P, 190P
 Snyders DJ *see* Delpón E, 87P
 Soares-da-Silva P, Serrão MP & Vieira-Coelho MA Uptake and intracellular fate of L-3,4-dihydroxyphenylalanine, the dopamine precursor, in porcine renal LLC-PK₁ cells, 34P
 Soares-da-Silva P *see* Bonifácio MJ, 32P
 Soares-da-Silva P *see* Gomes P, 133P
 Soares-da-Silva P *see* Vieira-Coelho MA, 33P
 Soares-da-Silva P *see* Vieira-Coelho MA, 132P
 Soliakov L *see* Kaiser S, 165P
 Southam E *see* Cutler DJ, 170P
 Spedding M *see* Menton K, 49P
 Spedding M *see* Menton K, 112P
 Stanford SC *see* Hughes ZA, 99P
 Stanford SC *see* Wortley KE, 100P
 Stephens DN *see* Smith JW, 41P
 Stephens SM *see* Michael-Titus AT, 79P
 Stone D *see* Shih M-F, 151P
 Suthamnatpong O & Morris R Responses of neurones in the outer dorsal horn of rat lumbar spinal cord slices to a selective neurokinin 1 receptor agonist, 73P
 Taberner PV *see* Jelic P, 152P
 Taberner PV *see* Shih M-F, 54P
 Taberner PV *see* Shih M-F, 151P
 Taberner PV *see* Shih M-F, 153P
 Taberner PV The pharmacological basis of diabetes therapy: an overview, 186P
 Tamargo J *see* Delpón E, 87P
 Tamargo J *see* Longobardo M, 88P
 Tavare JM *see* Oatey PB, 188P

Salvage S *see* Tel BC, 161P

- Tel BC, Zeng B-Y, Pearce RKB, Salvage S, Jenner P & Marsden CD Differential effects of ropinirole, bromocriptine and L-DOPA on striatal preproenkephalin and preprotachykinin mRNA expression in MPTP-treated common marmosets, 161P
- Tel BC *see* Zeng B-Y, 44P
- Tennant JP, Samuel EJ & Hourani SMO Ecto-nucleotidase activity in the prostatic and epididymal portions of the guinea-pig vas deferens, 146P
- Thongsaard W, Ting KN, Marsden CA & Wilson VG The effect of barakol against electrically-evoked contractions of the isolated porcine tail artery and guinea-pig ileum, 141P
- Ting KN *see* Thongsaard W, 141P
- Toms NJ *see* Ge J, 158P
- Towler PK, Bennett GS, Moore PK & Brain SD, The effects of an nNOS inhibitor 1-(2-trifluoromethyl-phenyl)imidazole (TRIM) on saphenous nerve-induced plasma extravasation in the rat paw, 172P
- Tran S *see* Boot JR, 89P
- Treize D *see* Clayton NM, 27P
- Treize D *see* Evans KS, 26P
- Treize D *see* Kozlowski CM, 30P
- Treize DJ, John VH & Xie X Electrophysiological studies on the effects of lamotrigine on rat dorsal root ganglion neurones *in vitro*, 31P
- Treize DJ *see* Smith EJ, 75P
- Trist DG *see* Mugnaini M, 63P
- Tuladhar BR, Kaisar M & Naylor RJ 5-HT₁ receptor involvement in the facilitation of peristalsis on mucosal application of 5-HT in the guinea-pig isolated ileum, 50P
- Turner H *see* Goren MZ, 83P
- Tyacke RJ, Nutt DJ, Chan SLF, Ramsden CA, Morgan NG & Hudson AL Affinities of efaroxan derivatives for α_2 -adrenoceptors and I₂-binding sites in rat brain membranes, 66P
- Tyacke RJ *see* Hudson AL, 180P
- Upton R, Widdowson PS, Kadowaki S & Williams G Improved insulin sensitivity in Zucker and ZDF rats following chronic treatment with the novel thiazolidinedione MCC-555, 149P
- Upton R *see* Widdowson PS, 150P
- Usherwood PNR *see* Eldursi N, 64P
- Valenzuela C *see* Delpón E, 87P
- Valenzuela C *see* Longobardo M, 88P
- Van Paesschen W *see* Baird VH, 40P
- Van Paesschen W *see* Hand K, 39P
- van Weering D *see* Oatey PB, 188P
- Vandeveld M *see* Guyaux M, 114P
- Vargas F *see* Ganellin CR, 189P
- Venema RC *see* Allcock GH, 118P
- Vieira-Coelho MA, Borges N & Soares-da-Silva P Sensitivity to inhibition by tolcapone of soluble and membrane-bound forms of catechol-O-methyltransferase from rat brain, liver and kidney, 33P
- Vieira-Coelho MA & Soares-da-Silva P Uptake and intracellular fate of L-3,4-dihydroxyphenylalanine, the dopamine precursor, in Caco-2 cells, 132P
- Vieira-Coelho MA *see* Bonifácio MJ, 32P
- Vieira-Coelho MA *see* Gomes P, 133P
- Vieira-Coelho MA *see* Soares-da-Silva P, 34P
- Vink T *see* Falati S, 103P
- Wan BYC, Alderman C, Peh KH & Assem ESK The mode of action of bradykinin and other basic secretagogues on histamine release from rat peritoneal mast cells, 106P
- Wann KT *see* Goodwin PA, 8P
- Ward M *see* O'Neill MJ, 157P
- Ward P *see* Clayton NM, 27P
- Warhurst DA & Court EN The effect of platelet activating factor (PAF) on leukotriene release from rat chopped lung and trachea, 148P
- Warner TD *see* Allcock GH, 118P
- Warner TD *see* Hamilton LC, 22P
- Warner TD *see* Woods M, 18P
- Watkins JC *see* Pinkney JM, 37P
- Watson SP, Börsch-Haubold A & Briddon S Regulation of phospholipase A₂ and phospholipase C_γ by phosphorylation, 178P
- Watson SP *see* Briddon SJ, 102P
- Watson WP, Clark AM, O'Callaghan MJ & Little HJ Effects of corticosterone treatment on the ethanol preference of the LACG (alcohol avoiding) strain of mice, 167P
- Watson WP & Little HJ Increased stimulant effects of amphetamine and cocaine are seen seven days after cessation of chronic barbitol treatment in mice, 42P
- Watson WP *see* Smith JW, 41P
- Watts P *see* Brown CT, 163P
- Werge TM *see* Ciucci A, 74P
- Whelpton R *see* Michael-Titus AT, 79P
- White R & Hiley CR Comparison of the vasorelaxation caused by endothelium-derived hyperpolarizing factor (EDHF) and anandamide in the small mesenteric artery of the rat, 23P
- Widdowson PS, Upton R, Henderson L, Buckingham R, Wilson S & Williams G Evidence of central NPY receptor up-regulation in dietary-induced obesity in the rat, 150P
- Widdowson PS *see* Upton R, 149P
- Wieczorek WJ *see* Iravani MM, 98P
- Williams CA *see* Shih M-F, 54P
- Williams CA *see* Shih M-F, 151P
- Williams G *see* Upton R, 149P
- Williams G *see* Widdowson PS, 150P
- Williams KI *see* Yousif MH, 117P
- Wilson S *see* Widdowson PS, 150P
- Wilson VG *see* Cheng HY, 143P
- Wilson VG *see* Lawrence RN, 140P
- Wilson VG *see* Munday MK, 93P
- Wilson VG *see* Roberts RE, 126P
- Wilson VG *see* Thongsaard W, 141P
- Wonnacott S *see* Kaiser S, 165P
- Wonnacott S *see* Marshall DL, 96P
- Woods M, Bishop-Bailey D, Pepper JR, Evans T, Mitchell JA & Warner TD Cytokine and LPS stimulation of endothelin-1 release from internal mammary artery and saphenous vein smooth muscle cells, 18P
- Woodward B *see* Yew SF, 129P
- Wooltorton JRA, McDonald BJ, Moss SJ & Smart TG Zinc inhibition of β_3 subunit containing GABA_A receptors relies on a histidine residue located within the second transmembrane domain, 38P
- Wortley KE, Hughes ZA, Mason K, Heal D & Stanford CS Comparison of the effects of sibutramine and *d*-amphetamine on the concentration of extracellular noradrenaline in rat frontal cortex: a microdialysis study, 100P
- Wülfert E *see* Guyaux M, 114P
- Xie X *see* Dale TJ, 85P
- Xie X *see* Treize DJ, 31P
- Yard NJ, Brown TJ, Roach AG & Garland CJ Interactions between ET_A and ET_B receptor-mediated contractions in the rabbit isolated pulmonary artery, 17P
- Yates MS *see* Morton MJ, 48P
- Yau KW *see* Michael-Titus AT, 79P
- Yew SF & Woodward B Chelerythrine influences basal and prostaglandin F_{2α}-induced increases in rat cardiomyocyte contractility, 129P
- Young AMJ *see* Patel DR, 159P
- Young P, Buckingham R & Smith SA Insulin sensitizers for the treatment of non-insulin-dependent diabetes, 190P
- Yousif MH, Oriowo MA & Williams KI NO synthase and cyclic GMP involvement in modulating NA-induced vasoconstriction in the perfused rabbit ovarian vascular bed, 117P

Zeitlin IJ *see* Eshraghi HR, 147P
Zeng B-Y, Tel BC, Pearce RKB, Smith
LA, Chanchame L, Salvage S,
Jenner P & Marsden CD Neuro-
protective effect of modafinil against

MPTP toxicity in MPTP-treated
common marmosets, 44P
Zeng B-Y *see* Tel BC, 161P
Zhu Q-M, Knittle DE, Eglen RM &
Blue Jr. DR Effect of intravenously-

administered clonidine, rilmenidine
and moxonidine on blood pressure
and heart rate in conscious wild-type
and mutant D79N α_{2A} -adrenoceptor
(α_{2A} -AR) mice, 70P

Keyword Index

- Absence epilepsy 83P
 Acetylcholine 108P
 (1*S*,3*S*)-ACPD 158P
 Adaptations 167P
 Adenosine 1P
 Adenosine receptors 3P, 24P, 48P, 109P, 110P, 111P
 Adenylyl cyclase 11P
 Adipose tissue 152P
 Adjuvant induced pain 27P
 Adrenergic contractions 141P
 α_2 -Adrenoceptors 66P, 68P, 126P, 143P
 α_2 -Adrenoceptor agonists 70P, 114P
 α_2 -Adrenoceptors 69P
 β -Adrenoceptors 11P
 β_3 -Adrenoceptors 139P, 153P
 Adrenomedullin 115P
 Afferent discharge 24P
 Affinity binding 74P
 Agonists 138P
 β_3 -Agonists 187P
 Airway smooth muscle 104P
 Alcohol 41P, 167P
 Allopurinol 125P
 Allosteric interactions 69P
 Amiloride 69P
 Amine oxidase 183P
 AMPA receptors 10P
 Amphetamines 42P
d-Amphetamines 100P
 Analgesia 31P, 72P
 Analytical pharmacology 134P
 Anandamide 23P, 123P, 124P
 Anococcygeus muscle 144P
 Antagonism 139P
 Antagonists 10P, 57P
 Arteries, basilar 142P
 Arteries, coronary 140P
 Arteries, coronary, human 16P, 19P, 20P
 Arteries, mesenteric 23P
 Arteries, mesenteric, rabbit 127P
 Arteries, pial, human 15P
 Arteries, pulmonary 140P
 Arteries, umbilical, human 135P
 Assays 130P
 Asthma 145P
 Atherosclerosis 19P, 20P, 21P
 ATP 49P
 ATP-sensitive potassium channels 56P
 Autoradiography 40P, 65P, 68P

 Barakol 141P

 Barbitol 42P
 Basal ganglia 163P
 Behavioural pharmacology 72P
 Benzocaine 87P
 2-BFI 65P
 Binding 10P
 BK_{Ca} channels 7P
 Bladder 143P
 Bladder, urinary 53P
 Blood pressure 70P
Bothrops jararacussu snake venom 82P
 Bradykinin 106P, 147P
 Brain 33P
 Brain, human 182P
 Bronchospasm 14P

 Caco-2 cells 132P
 Caffeine 96P
 Calcium, intracellular 6P, 105P
 Calcium channels 86P, 90P
 Calcium currents 4P
 Calcium imaging 5P
Callithrix jacchus 44P
 Cannabinoids 120P, 123P, 124P
 Capsaicin 77P, 145P
 Cardiovascular–spinal sympatholysis 114P
 Carrageenan 75P
 CATH.a cell lines 35P, 105P
 CBL (Computer-based Learning) 173P, 174P
 Cell lysis 113P
 Cell signalling 103P
 Channels 25P
 Chelerythrine 129P
 CHO cells 171P
 Cholecystokinin octapeptide 189P
 Cholinergic contractions 141P
 Clofibrate 156P
 Cocaine 42P
 Collagen 102P
 Colon, human 139P
 Colorectal distension 30P
 Common marmoset 162P
 Computer-based learning (CBL) 173P, 174P
 Conotoxins 89P
 α -Conotoxin-MII 165P
 Contractility 129P
 Contraction 17P, 128P
 Copper 13P, 47P

 Coronary artery bypass 19P
 Coronary artery bypass graft 20P
 Corpus striatum 159P
 Corticosterones 45P, 167P
 Corticotrophin-releasing factor 12P, 105P
 Cross-talk 62P, 110P
 Cross-talk mechanisms 2P
 Cultured neurones 61P
 Cutaneous hypersensitivity 26P
 CGP 49823 28P
 CGRP 115P
 Cyanine 863 133P
 Cyclic AMP 109P, 110P, 170P
 Cyclic GMP 62P, 117P
 Cyclic nucleotides 126P
 Cyclo-oxygenase 80P, 142P
 Cyclo-oxygenase 2 22P
 Cyclosporin A 112P
 Cytokines 18P, 156P

 Dependence 93P
 Depolarisation 95P
 Deprenyl 43P
 Desensitisation 3P, 52P
 Detrusor smooth muscle 52P
 Dexmedetomidine 36P
 Diabetes 54P, 149P
 Diabetes symposia 186P, 187P, 188P, 189P, 190P, 191P
 Dibenzoyl-ATP 13P, 113P
 3,3'-Diethyloxacarbocyanine 133P
 Dihydropyridines 152P
 L-DOPA 34P, 132P, 133P
 Dopamine 34P, 43P, 98P, 132P
 Dopamine agonists 161P
 Dopamine release 97P, 165P
 Dorsal horn neurones 30P
 Dorsal horn recording 26P
 Dorsal root ganglia 31P
 Dorsal root ganglion neurons 59P
 Dual coupling 1P

 Ectonucleotidases 146P
 EDHF 23P, 120P, 121P, 122P, 123P, 124P
 Efaroxan 66P
 Electrophysiological techniques 93P
 Enantiomers 88P
 Endocrine pancreas 55P, 184P
 Endocrine physiology 173P

Endothelial cells 11P
 Endothelins 15P, 16P, 17P, 18P, 118P, 119P
 Endothelin converting enzymes 119P
 Endothelin receptor antagonists 15P
 Endothelium 46P, 131P, 154P, 155P
 Endothelium-derived hyperpolarising factor 23P, 120P, 121P, 122P, 123P, 124P
 Endotoxins 80P
 Enzymes, induced 22P
 EP receptors 134P, 137P
 Epilepsy 40P
 Epileptiform discharges 84P
 Ethanol 140P
 Exocytosis 81P
 Extracellular noradrenaline 100P

Fibrinogen 156P
 Forced swimtest 168P
 Fos 75P

G-protein coupled receptors 176P
 GABA_A 95P
 GABA_A receptors 38P, 39P, 83P, 144P
 Galanin 166P
 GDNF 162P
 Gender 120P
 Gene expression 161P
 Glucagon-like peptides 191P
 Glucose metabolism 183P
 Glucose tolerance 54P, 151P, 153P
 Glucose transporters 188P
 Glutamate 60P, 160P
 Glutamate receptors 5P, 61P, 62P, 97P
 Glutamate release 159P
 (2*S*,4*R*)-4-[3-(2-naphthyl)-2(*E*)-pro-penyl]-glutamic acid 59P
 Glutathione 164P
 Glycine 63P
 GR 32191B 135P
 GRK 4P

Haem oxygenase 163P
 Haemodynamics 115P, 116P
 HEK293 cells 59P, 89P
 Hippocampus 8P, 95P
 Histamine H₁ receptors 104P
 Histamine release 106P
 Histidine residue 38P
 hKv1.5 87P
 hKv1.5 channels 88P
 Homocysteine 47P
 5-HT 9P, 98P
 5-HT_{2B} receptors 138P
 5-HT₃ receptors 50P
 L-5-HTP 133P
 Hypersensitivity 26P
 Hypersensitivity, cutaneous 26P
 Hypertension 116P, 118P, 121P, 185P
 Hypothalamo-pituitary-adrenal axis 80P
 Hypothalamus 150P

I_H 25P
 Imidazole antimycotics 7P
 Imidazolines 54P
 Imidazoline binding sites 67P, 181P
 Imidazoline I₂ 66P
 Imidazoline I₂ ligands 168P
 Imidazoline I₂ sites 65P
 Imidazoline receptors 55P, 70P, 168P
 Imidazoline receptor symposia 180P, 181P, 182P, 183P, 184P, 185P
 Inflammation 21P, 82P
 Inflammation, skin 78P
 Inhibitory amino acids 90P
 Insulin 154P
 Insulin secretion 55P
 Insulin sensitivity 54P, 151P, 153P
 Internalisation 4P
 Interpeduncular nucleus 67P
 Intestines, small, human 138P
 Intracellular calcium 6P
 Intracellular recording 84P
 Intracerebral dialysis 158P
 Iris sphincter muscle, rabbit 51P
 Isoprostane 155P
 Itch 169P

Jejunal distension 76P

K⁺/2Cl cotransporters 92P
 Kidney 48P, 119P
 Kinin receptors 107P

Lamotrigine 31P, 85P
 Leptin 56P
 Leukotrienes 148P
 Lipase 152P
 Lipocortin 81P
 Lipogenesis 152P
 Liver 32P
 LLC-PK₁ cells 34P
 Local anaesthetics 87P, 88P
 Locomotor activity 42P, 157P
 Locus coeruleus 35P, 105P
 Locusts 108P
 Lungs 148P

Mammary gland, bovine 147P
 MAP kinases 177P
 MB-COMT 32P, 33P
 MCC-555 149P
 MDMA 98P
 Melatonin 170P, 171P
 Mesentery 125P
 Metabolism *in vivo* 79P
 Metabotropic agonist responses 84P
 Metabotropic glutamate receptors 2P, 37P, 57P, 60P, 158P
 Metabotropic glutamate receptor 1α 58P
 (2*S*,4*R*)-4-Methylglutamate 61P
 (2*S*,4*R*)-4-Methylglutamic acid 59P
 Metrifudil 24P
 Microdialysis 83P, 96P, 97P

Microphysiometry 1P, 12P, 171P
 Mitochondria 112P
 Mivazerol 68P
 MK-801 157P
 Modafinil 44P
 Monoamine oxidase 43P, 67P
 Monoamine oxidase inhibitors 181P
 Monosynaptic EPSCs 94P
 Morphine 93P, 94P
 Motoneurons 28P, 94P
 Moxonidine 70P
 MPTP 44P, 161P, 162P, 164P
 mRNA 39P
 mRNA levels 48P
 Mucosal applications 50P
 Muscarinic agonist responses 84P
 Muscarinic receptors 51P, 101P, 108P
 Muscarinic M₃ receptors 52P
 Muscle physiology 174P
 Mutagenesis 5P
 Mutant NK-1 receptors 74P
 Myometrium, human 134P, 136P, 137P

Na⁺/K⁺/2Cl cotransporters 91P, 92P
 L-NAME 142P
 NANC 145P
 Neointima formation 6P
 Nerve growth factor 78P
 Neuroblastoma 86P
 Neurogenic inflammation 172P
 Neurokinin receptors 29P
 Neurokinin NK₁ antagonists 27P
 Neurokinin NK₁ receptors 73P
 Neuronal nitric oxide synthase 172P
 Neuropeptides 77P
 Neuropeptide Y 150P
 Neurotransmission 53P, 143P
 Nicotine 96P
 Nicotinic receptors 166P
 Nimodipine 41P
 Nitric oxide 46P, 47P, 116P, 120P, 121P, 122P, 131P, 154P, 172P
 Nitric oxide GMP 117P
 Nitric oxide synthase 22P, 118P
 Nitric oxide synthase inhibitors 127P
 7-Nitroindazole 125P, 157P
 NMDA 45P, 63P, 72P, 160P
 NMDA receptors 40P, 64P
 Nociceptin 28P
 Nociception 71P, 73P
 Nonadrenergic binding sites 36P
 Noradrenaline 99P
 Noradrenaline, extracellular 100P
 Noradrenaline transport 35P

Obesity 150P
 Oedema formation 77P
 OK cells 133P
 Olfactory cortex, rat 84P
 κ-Opioids 169P
 Opioid receptors 86P
 Organ culture 16P
 ORL₁ receptors 28P
 Orphanin FQ 28P

Ovarian vascular bed, rabbit 117P

P2 receptors 146P
P2X receptors 25P
P2Z receptors 13P, 113P
P450 163P
Pain 27P
Patch clamp 8P
Peristalsis 50P
Peritoneal mast cells, rat 106P
Phenylglycines 37P
Phenylglycine derivatives 57P
Phosphoinositides 2P
Phosphoinositide hydrolysis 58P
Phospholipases 82P
Phospholipase A₂ 178P
Phospholipase C 178P
Phospholipase regulation 101P
PIT 49P, 112P
Pituitary gland 81P
Platelets 92P, 102P, 103P
Platelet-activating factor 148P
Polyamines 64P
Porcine blood vessels 126P
Potassium channels 8P, 86P
Potassium channel blockers 127P
Potassium ATP channels 56P
Presynaptic AMPA receptors 159P
Presynaptic nicotinic receptors 165P
Proliferating tissues 107P
Prostaglandins 20P, 155P
Prostaglandin E₂ 19P, 21P, 137P
Prostaglandin F_{2α} 129P
Protein kinase A 104P
Protein kinase C inhibitors 175P
Protein phosphatases 179P
Protein phosphorylation symposia 175P, 176P, 177P, 178P, 179P
Proteinase-activated receptors 14P

Pruritus model 169P
2-2'-Pyridylisatogen tosylate 49P, 112P

Radioligand binding 58P, 166P
Receptors 9P
Receptor subtypes 144P
Receptor binding 63P
Receptor desensitisation 109P
Receptor internalisation 111P
Receptor kinase 3P
Regulation 9P
Relaxation 128P
Resensitisation 111P

S-COMT 32P, 33P
Schizophrenia 160P
Selective ligands 180P
Selective serotonin reuptake inhibitors 99P
Self-administration 41P
Sensitisation 30P
Sensory nerves 172P
Serotonin 9P, 98P
Sibutramine 100P
Smooth muscle, vascular 17P, 18P
Smooth muscle relaxation 46P, 122P
Sodium channels 31P, 85P
Sodium valproate 85P
Somatostatin 4P
Spin traps 130P
Spinal cord 36P, 60P, 71P, 75P, 90P
Spinal cord, rat 37P
SR 58611A 151P, 153P
Src kinases 102P
Substance P 73P, 77P
Substance P fragments 79P
Superoxide anion 130P, 131P
Suprachiasmatic nuclei 170P

Tachykinins 53P, 74P
Tachykinin receptors 76P
Taenia caecum 49P
Temporal lobe epilepsy 39P
Thapsigargin 6P
Thiazolidinedione 149P, 190P
Thrombin 14P
Tissue kallikrein 107P
Tolcapone 32P, 33P
TP receptors 135P, 136P
trkA receptors 78P
Tyrosine kinase 56P
Tyrosine phosphorylation 102P, 103P

U46619 136P
Udder 147P
UK-14304 141P
Undergraduate teaching 173P, 174P
Uptake 99P
Urinary bladder smooth muscle, rabbit 51P
Urocortin 12P

Vas deferens, guinea-pig 146P
Vasoconstriction 117P
Veins, saphenous, porcine 128P
Ventral tegmentum 45P
Visceral nociception 76P
Voltage-dependent calcium channels 89P

Xanthine oxidase 125P
Xenopus laevis oocytes 64P

Zinc 13P, 38P
Zucker rats 149P