# British Journal of Pharmacology

### **Proceedings Supplement**

Proceedings of the British Pharmacological Society Meeting

5-7 September 2001

**University of Bristol** 

(Joint meeting with the Physiological Society)

The British Journal of Pharmacology is published by Nature Publishing Group, a division of Macmillan Publishers 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, EMBASE/Excerpta Medica, BIOSIS, Elsevier Biobase/Current Awareness in Biological Sciences, CINAHL and Index Medicus.

Editorial Manuscripts (plus three original copies) and all editorial correspondence should be sent to: The Editorial Office, British Journal of Pharmacology, BPS Office, 16 Angel Gate, 326 City Road, London EC1V 2SG, UK. Tel: +44 207417 0432; Fax: +44 2077417 0430.

Advertisements Enquiries concerning advertisements should be addressed to: Robert Sloan, Advertisement Manager, 84 Arnos Grove, Southgate, London N14 7AR, UK. Tel: +44 208882 7199; Fax: +44 208882 7299.

Publisher All business correspondence, supplement enquiries and reprint requests should be addressed to British Journal of Pharmacology, Nature Publishing Group, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Tel: +441256 329242; Fax: +44 1256 810526. Publishing Manager: Sue Deeley. Production Controller: Jane Torr.

WWW The British Journal of Pharmacology is on the internet at:

http://www.brjpharmacol.org/
The journals' home pages contain a range of information free to all readers. This includes: Editors' Details, Aims and Scope, Instructions to Authors, Subscription Prices, Reprint Ordering, Sample Copy Ordering and News, together with the contact names of our Publishing, Production, Marketing and Advertising Departments.

Readers can view Tables of Contents and Abstracts to all articles since 1997. Register now to have the Tables of Contents sent to you as each issue is published. Subscribers to the 2000 on-line version of the journal have access to PDF and HTML files with the full text of all articles published since 1997.

Subscriptions - 2000 Subscription Rates - British Journal of Pharmacology Institutional Subscriptions Print (Hard Copy); EU £960, Rest of World (surface mail) £1060/US\$1664, Rest of World (airmail) £1272/US\$1997.

Electronic - Online only £960/US\$1507.

Combined - Electronic Online & Print EU £1056, Rest of World (surface mail) £1166/US\$1831, Rest of World (airmail) £1378/US\$2164.

Personal Subscriptions (USA only)

Print (Hard Copy) surface mail \$295; air mail \$628

Electronic - Online only \$295 Combined - Electronic Online & Print Surface mail \$325; airmail \$384

Subscriptions – Outside the USA

Orders must be accompanied by remittance. Cheques should be made payable to Macmillan Journals Subscriptions Ltd and sent to: The Subscription Department, Nature Publishing Group, 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.

Subscriptions - USA

USA subscribers can call toll free: 1 800 747 3187. Please send check/money order/credit card details to: The Subscription Department, Nature Publishing Group, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Prices are set in UK Sterling. Dollar prices are converted from UK Sterling. Dollar prices are converted from UK Sterling at the current exchange rate. Accordingly, your credit card charge may vary slightly from the Dollar rate shown. To obtain the exact Dollar rate shown, please remit by check. All prices, specifications and details are subject to change without prior notification.

British Journal of Pharmacology (ISSN 0007-1188) is published twice a month by Nature Publishing Group, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001, USA. Subscription price for institutions is \$1664 per annum (surface). Periodicals postage is paid at Rahway NJ. Postmaster: send address corrections to British Journal of Pharmacology, Nature Publishing Group, c/o Mercury Airfreight International Ltd, 365 Blair Road, Avenel, NJ 07001.

Reprints of any article in this journal are available from Nature Publishing Group, Houndmills, Basingstoke, Hampshire RG21 6XS, UK. Tel: +44 1256 329242; Fax: +44 1256 810526.

Copyright © 2000 Macmillan Publishers Ltd 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 Nature Publishing Group for libraries and other users registered with the Copyright Clearance Center (CCC) Transaction Reporting Service, provided that the base fee of \$15.00 per copy is paid directly to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. 0007— 1188/00 \$15.00 + \$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.

## INDEX TO PROCEEDINGS SUPPLEMENT Joint Meeting with the Physiological Society, University of Bristol 5th-7th September, 2001

#### **Author Index**

UII) in conscious rats, 38P

af Forselles KJ see Peckham-Cooper AB, 14P Al-Barazanji KA see Ford GK, 109P Albino-Teixeira A see Morato M, 125P Albino-Teixeira A see Morato M. 126P Albino-Teixeira A see Sousa T, 127P Albino-Teixeira A see Sousa T. 133P Alexander SPH see Thomas R, 115P Allain TJ see Mangoni AA, 35P Almeida AM, Sales F, Falcao AC & Caramona MM Lamotrigine pharmacokinetic parameter estimation in an inpatient population, 99P Almond M see Belsey MJ, 1P Aspley S see Woolard J, 120P Assis TS, Rowan EG & Kennedy C The sensitivity of sensory neurones to P2 receptor agonists differs in intact and dissociated rat dorsal root ganglia, 62P Azevedo I see Santos A, 105P

Bailey A see Toms NJ, 84P Baker JG, Hall IP & Hill SJ Agonist-dependent differences in the affinity of ICI 118551 and CGP 12177 for antagonism of  $\beta_2$ -agonist-stimulated gene transcription in CHO-K1 cells expressing the human  $\beta_2$ -adrenoceptor, 60P

Barata JD see Palma P, 124P
Barnes D see Manning J-PA, 102P
Barrento C see Pinto R, 57P
Barret O see Johnström P, 31P
Barreto M see Costa IM, 114P
Belsey MJ, Culliford SJ, Almond M & Kozlowski RZ Tricyclic antidepressants and 2nd generation antihistamines inhibit volume-sensitive anion channels in HeLa cells, 1P
Bennett T, March JE, Kemp PA & Gardiner SM Cardiovascular effects of corticotropin releasing factor (CRF) compared with human urotensin II (h-

Bennett T see Gardiner SM, 37P Bennett T see Wakefield ID, 136P Bica A see Costa IM, 114P Binns KE, Turner JP & Salt TE The role of kainate (GluR5) receptors in sensory responses of rat ventrobasal thalamus (VB) neurones, 85P Blackburn JM see Mulder M, 146P Bond SM see Moores C, 34P Bonifácio MJ see Vieira-Coelho MA, 58P Bönisch H see Bryan-Lluka LJ, 17P Borg JJ, Hancox JC, Meaden GM, Spencer IC & Kozlowski RZ A simple computational method to quantify arrhythmias based upon contractile variability, 33P Borges N see Santos A, 105P Borman RA, Purbrick S, Harmer DW, Gilbert M & Clark KL Investigation of the functional role of a novel angiotensin-converting enzyme (ACE2) in human intestine, 137P Boult JE see Toward TJ, 73P Boutell J see Mulder M, 146P Bowery NG see Manning J-PA, 102P Bowery NG see Pearce SM, 94P Bowery NG see Smith CGS, 95P Branco P see Palma P, 124P Brawley L see Torrens C, 59P Broadhurst J see Festing MFW, 141P Broadley KJ see Clark JH, 46P Broadley KJ see Martin TJ, 74P Broadley KJ see Toward TJ, 73P Broadley KJ see Yates L, 139P Brown AJ see Gribben EE, 75P Bryan-Lluka LJ, Bönisch H & Paczkowski FA A naturally occurring human noradrenaline transporter mutation in transmembrane domain 9 causes differential changes in noradrenaline and cocaine affinities, 17P

Budas GR see Ranki H, 13P

Budd DC, McDonald JE & Tobin AB Functional interaction between casein kinase 1α and the muscarinic M<sub>3</sub> receptor, 48P Bunton D see Tracey A, 79P Burnham M see Glen CD, 4P

Cahill DJ Generation and applications of high-density protein arrays, 143P Caldwell S see Gribben EE, 75P Caputi AP see Cuzzocrea S, 8P Caramona MM see Almeida AM, 99P Caramona MM see Castel-Branco MM, 100P Caramona MM see Costa IM, 114P Carvalho F see Sousa T, 127P Carvalho F see Sousa T, 133P Castel-Branco MM, Gomes CA. Figueiredo IV, Falcao AC, Macedo TRA & Caramona MM Relationship between lamotrigine in plasma and brain of rats, 100P Cater HL, Poyner DR & Hartell NA Calcitonin gene-related peptide and adrenomedullin modulate synaptic transmission in Purkinje cells, 82P Cerejo A see Santos A, 105P Challiss RAJ see Willets JM, 20P Channer KS see Jones RD, 129P Channer KS see Jones RD, 130P Channer KS see Pugh PJ, 131P Chapman V see Marsden CA, 142P Chapman V see Sokal DM, 61P Chatterjee PK, Patel NSA, Kvale EO & Thiemer-mann C The PPAR-y ligand 15d-PGJ, reduces renal dysfunction and injury mediated by ischaemia/reperfusion of the rat kidney, 11P Chatterjee PK see Cuzzocrea S, 8P Chatterjee PK see d'Emmanuele di Villa

Bianca R, 71P Chatterjee PK see Izumi M, 70P Chatterjee PK see Kvale EO, 67P Chatterjee PK see Kvale EO, 69P Chatterjee PK see Patel NSA, 10P Chazot P see Hann V, 42P Chazot PL, Lawrence S & Thompson CL Evidence for two classes of NR2Bdirected NMDA receptor antagonists,

Chessell IP see Gauldie SD, 63P Chimirri A see De Sarro GB, 101P Clapp LH see Cui Y, 118P Clapp LH see O'Brien AJ, 116P Clapp LH see Wilson AJ, 117P Clark JC see Johnström P. 31P Clark JH, Broadley KJ, Hutcheson IR, Nicholson RI & Kidd EJ Adenosine receptor agonists mediate the phosphorylation of Mitogen Activated Protein Kinase (MAPK) in MCF-7 human breast cancer cells, 46P Clark KL see Borman RA, 137P Clarke RW see Jenkins S, 64P Clifford J see Nally R, 18P Close JCT see Mangoni AA, 35P Cockerill GW see McDonald MC, 12P Conner AC, Howitt SG, Wheatley M, Smith DM & Poyner DR The effect on CGRP-binding of mutations to the hydrophilic residues within the first transmembrane region of human calcitonin receptor-like receptor (CRLR), 45P

Constanti A see Russo E, 81P Costa IM, Falcao AC, Barreto M, Bica A, Farinha AR, Lanao JM & Caramona MM Binding of warfarin enantiomers to human plasma proteins,

Cox HM see Holliday ND, 23P Cox HM see Hyland NP, 43P Cox HM see Tough IR, 44P Coyne L & Lees G The effects of 12,14dichloro-dehydroabietic acid on human GABA, currents in oocytes and native rat GABA, receptors in primary cortical cultures, 15P Crane G see Walker SD, 25P

Crawford D see Toms NJ, 84P Crawford RM see Ranki H, 13P Croft AP, Holt JDS & Little HJ A CCK, antagonist decreased effects of social defeat on alcohol consumption, 19P

Croft AP & Little HJ Effects of social

defeat on regional brain corticosterone concentrations, 98P Croke D see Nally R, 18P Crossley CC see Howson PA, 91P Croucher MJ see Fazal A, 90P Croucher MJ see Lee JJ, 93P Crunelli V see Manning J-PA, 102P Cui Y, Tinker A & Clapp LH Potent inhibition of cloned  $\bar{K}_{ATP}$  channels stably expressed in human embryonic kidney (HEK) 293 cells by the pinacidil derivative, PNU-99963, 118P Cui Y see O'Brien AJ, 116P

Culliford SJ see Belsey MJ, 1P

Culloty BM see Lees G, 16P Cunha-Reis D, Sebastião AM & Ribeiro JA Modulation of synaptic transmission by VIP in the CA1 area of the hippocampus is dependent on GABAergic transmission and on both PKA and PKC activities, 83P Cuzzocrea S, Chatterjee PK, Mazzon E, McDonald MC, Dugo L, Serraino I, Caputi AP & Thiemer-mann C Beneficial effects of GW274150, a novel, potent and selective inhibitor of iNOS activity, in a rodent model of collagen-induced arthritis, 8P

Davenport AP see Johnström P, 31P Davenport AP see Maguire JJ, 123P Davies ARL, Hogg DS & Kozlowski RZ Kv2.1 channels are the major contributers to hypoxia-sensitive potassium currents in pulmonary artery smooth muscle cells, 3P Davies JA see Marsh WL, 96P Dawson NJ, Yoshiizumi K & Lawson K Effects of  $N^{G}$ -monomethyl-L-arginine on the vasorelaxant responses to novel thienylcyanoguanidine potassium channel openers in rat isolated aorta, 28P

Dawson NJ & Lawson K Pinacidil, but not cromakalim, -induced Rb efflux from rat isolated aorta is attenuated by N<sup>G</sup>-nitro-L-arginine methyl ester (L-NAME), 134P

de Mendonça A see Sebastião AM, 5P

De Sarro GB, Siniscalchi A, Russo E, Gitto R & Chimirri A Lack of development of tolerance in genetically epilepsy-prone rats (GEPR -9S) following repeated treatment with topiramate or CFM-2, 101P De Souza RJ see Tough IR, 44P Del Soldato P see Gray PA, 27P d'Emmanuele di Villa Bianca R, Izumi M, McDonald MC, Chatterjee PK & Thiemermann C Pyrrolidine dithiocarbamate (PDTC) reduces the renal dysfunction associated with ischaemiareperfusion of kidney of the rat in

Dewhurst DG see Festing MFW, 141P Dewhurst DG see Norris TAM, 150P Docherty JR see Vandeputte C, 52P Dora KA, Ings NT & Garland CJ Modulation of responses to exogenous potassium by potassium channel activity in the rat isolated mesenteric artery, 26P

vivo, 71P

Dora KA, Sandow SL, Ings NT, Takano H. Hill CE & Garland CJ Myoendothelial gap junctions provide a pathway for EDHF in the mesenteric artery of the mouse, 121P

Dora KA see McEvoy LAF, 119P Dora KA see Walker SD, 25P

Dugo L see Cuzzocrea S, 8P Duncan M, Kendall DA & Ralevic V Effect of WIN55,212, a cannabinoid receptor agonist, on sensory neurotransmission in the rat isolated mesenteric arterial bed, 65P Dunn WR see Woolard J, 120P

Ebenezer IS The development of differential contingent negative variation potentials to reinforced and nonreinforced signals in rats are enhanced by pretreatment with nicotine, 97P Edroos S see Kulkarni RS, 108P Edwards G see Glen CD, 4P Edwards MM, Jackson HC, Nutt DJ & Hudson AL Investigation of the acute administration of imidazoline ligands on food intake, 110P Emery CJ see Lal H, 76P Emery CJ see Sisodiya A, 40P England S see Jackson P, 66P English KM see Jones RD, 129P English KM see Jones RD, 130P Errington AC see Lees G, 16P Eseh-Sumbele P, Strati I & McCurrie JR The effect of age on oestrogen-induced relaxation of rat aorta, 132P

Falção AC see Almeida AM, 99P Falcão AC see Castel-Branco MM, 100P Falcão AC see Costa IM, 114P Farinha AR see Costa IM, 114P Fazal A, Parker F, Palmer AM & Croucher MJ Pharmacological characterisation of positive modulatory metabotropic glutamate autoreceptors in the rat cerebral cortex, 90P Fernandes E see Sousa T, 127P Fernandes E see Sousa T, 133P Fernandes F see Gibson A, 41P Festing MFW, Dewhurst DG & Broadhurst J A highly interactive computerassisted learning (CAL) program to teach better experimental design, 141P Fienberg A see Nally R, 18P Figueiredo IV see Castel-Branco MM, 100P

Finch L, Tyacke RJ, Robinson ESJ, Nutt DJ & Hudson AL In vitro evaluation of three potential SPECT ligands for the central α,-adrenoceptor, 54P

Finlayson K, Turnbull L, January CT, Sharkey J & Kelly JS [3H]-dofetilide binding to HERG transfected membranes: a potential preclinical screen?,

Fone KCF see Jenkins S, 64P Ford GK, Al-Barazanji KA, Wilson S, Harbuz MS & Jessop DS Effects of glucocorticoid manipulation on orexin-A induced food intake in rats, 109P Frank S see Zacharowski K, 30P Fryer TD see Johnström P, 31P

Gardener MJ see Glen CD, 4P Gardiner SM, March JE, Kemp PA & Bennett T Effects of the cannabinoid receptor antagonist AM 251 on the cardiovascular responses to the cannabinoid receptor agonist WIN 55212-2 and to anandamide, in conscious rats, 37P

Gardiner SM see Bennett T, 38P Gardiner SM see Wakefield ID, 136P Garland CJ see Dora KA, 26P Garland CJ see Dora KA, 121P Garland CJ see Walker SD, 25P Gauldie SD, McQueen DS & Chessell IP Unilateral chronic arthritis induced in the mouse knee joint using Freund's Complete Adjuvant, 63P

Ghadessy RS & Kelly E Evidence for a role of PKA and protein synthesis in endogenous secretin receptor responsiveness, 47P

Gibson A, Fernandes F, Wallace P & McFadzean I Trifluoromethylphenylimidazole (TRIM) produces selective inhibition of capacitative calcium entry in smooth muscle, 41P

Gilbert M see Borman RA, 137P
Gitto R see De Sarro GB, 101P
Glen CD, Richards GR, Burnham M,
Edwards G, Gardener MJ, Schofield IJ
& Weston AH Expression of calciumsensitive potassium channels in human
endothelial cells, 4P

Godber B see Mulder M, 146P Gomes CA see Castel-Branco MM, 100P

Gomes P, Serrão P, Xu J, Jose PA & Soares-da-Silva P Expression and function of sodium transporters in two opossum kidney cell clonal sublines, 9P

Gomes P & Soares-da-Silva P Actin cytoskeleton and dopamine-induced inhibition of Na<sup>+</sup>-K<sup>+</sup>-ATPase activity in opossum kidney cells, 68P Gonçalves J see Queiroz G, 55P Grant AW see Gribben EE, 75P Graves JE & Lewis SJ Impaired vaso-dilation to peroxynitrite, acetylcholine and isoprenaline in anaesthetised streptozotocin-induced diabetic rats, 29P

Gray PA, Vojnovic I, Del Soldato P, Mitchell JA & Warner TD Effects of plasma proteins and blood elements on the potencies of flurbiprofen and NO-flurbiprofen as inhibitors of thromboxane A<sub>2</sub> formation by human platelets, 27P

Greengard P see Nally R, 18P Gressens P see Spedding M, 104P Gribben EE, Brown AJ, Caldwell S, Grant AW & Nally JE Glycosaminoglycans potentiate ANP-evoked relaxation in bovine bronchi, 75P Guimarães S see Almeida AM, 99P Guimarães S see Castel-Branco MM, 100P Guimarães S see Costa IM, 114P Guimarães S see Morato M, 125P Guimarães S see Morato M, 126P Guimarães S see Mota AV, 49P Gurney AM see MacMillan D, 135P

Gurney AM see O'Neill GT, 78P

Hall IP see Baker JG, 60P Hall IP see Le Jeune IR, 128P Hamilton WDO In silico proteomics: a novel approach, 148P Hancox JC see Borg JJ, 33P Hann V & Chazot PL Preliminary pharmacological study of the Human H<sub>34</sub> Histamine receptor transiently expressed in Human Embryonic Kidney (HEK) 293 cells, 42P Hanson MA see Torrens C, 59P Harbuz MS see Ford GK, 109P Harmer DW see Borman RA, 137P Harris NG see Johnström P. 31P Hart D see Mulder M, 146P Hartell NA see Cater HL, 82P Hattori Y see Wayman NS, 36P Hársing Jr see Kapus G, 87P Herzog H see Hyland NP, 43P Herzog H see Tough IR, 44P Higenbottam TW see Lal H, 76P Higenbottam TW see Sisodiya A, 40P Hill CE see Dora KA, 121P Hill D see Pearce SM, 94P Hill SJ see Baker JG, 60P Hilton D see Mangoni AA, 35P Hislop JN, Matharu A, Mundell S, Kelly E & McArdle CA A C-terminal tail can target gonadotrophin-releasing hormone receptors (GnRH-R) for dynamin-dependent internalisation, 22P

Hogg DS & Kozlowski RZ Non-selective cation currents in endothelial cells freshly isolated from small pulmonary arteries of the rat, 122P Hogg DS see Davies ARL, 3P Holliday ND & Cox HM Relative efficacies of neuropeptide Y and peptide YY in Y1 receptor-stimulated GTPη[35S] binding studies, 23P Hollingsworth M What can teaching and learning resource packs do for you?, 149P

Holt JDS see Croft AP, 19P Hough KA see Pennington RA, 80P Houslay MD see Le Jeune IR, 128P Howitt SG see Conner AC, 45P Howson PA, Tse HW, Crossley CC & Jane DE Pharmacological characterisation of three 2-oxopyridyalanine

isation of three 2-oxopyridyalanine analogues on glutamate receptors expressed on neonatal rat motoneurones, 91P

Howson PA & Jane DE A comparison of group III metabotropic glutamate

receptor agonists and the ability of LY341495 to antagonise their responses on neonatal rat primary afferents, 92P Hudson AL see Edwards MM, 110P Hudson AL see Finch L, 54P Hudson AL see Willmott G, 53P Hutcheson IR see Clark JH, 46P Hyland NP, Herzog H & Cox HM Decreased sensitivity to pancreatic polypeptide in colonic mucosa from Y<sub>2</sub> receptor knockout mice, 43P

Ings N see Dora KA, 121P
Ings NT see Dora KA, 26P
Ings NT see Walker SD, 25P
Irvine J see Tracey A, 79P
Itoh S see Torrens C, 59P
Izumi M, McDonald MC, Sharpe MA,
Chatterjee PK & Thiemermann C
Effects of EUK-8, a superoxide
dismutase mimetic with catalase
activity, on the circulatory failure and
multiple organ injury in haemorrhagic
shock in the anaesthetised rat, 70P
Izumi M see d'Emmanuele di Villa
Bianca R, 71P

Jackson HC see Edwards MM, 110P Jackson P & England S Characterisation of the excitatory effects of capsaicin in the rat bladder in vitro, 66P Jackson SHD see Mangoni AA, 35P Jagger L, Parker TL, Starkey S & Mason R Kainic acid-induced epileptiform activity and neuronal cell death in hippocampal organotypic slices, 103P Jane DE see Howson PA, 91P Jane DE see Howson PA, 92P Jane DE see Miller JC, 88P Jane DE see More JCA, 86P January CT see Finlayson K, 2P Jenkins S, Worthington M & Clarke RW Failure of cannabinoid inhibition of hind limb withdrawal reflexes in pentobarbitone-anaesthetized rabbits, 64P

Jenner P see Kulkarni RS, 108P
Jessop DS see Ford GK, 109P
Johnstrom P, Harris NG, Fryer TD,
Maguire JJ, Barret O, Richards HK,
Clark JC, Pickard JD & Davenport AP
In vivo imaging of ET-1 binding to
endothelin receptors using [18F]-ET-1
and positron emission tomography,
31P

Jolidon S see Kemp JA, 6P Jolidon S see Kew JNC, 7P Jones DNC see Ford GK, 109P Jones NA see Raper MA, 113P Jones NA see Rose MJ, 112P Jones RD, Pugh PJ, English KM, Jones TH & Channer KS Isolated arteries from testicular feminised mice have maintained dilator responses to testosterone but reduced vascular reactivity to acetylcholine, 129P Jones RD, Ruban LN, Pugh PJ, English KM, Jones H & Channer KS Testosterone inhibits agonist-induced increases in intracellular calcium in rat aortic smooth muscle cells, 130P Jones RD see Pugh PJ, 131P Jones TH see Jones RD, 129P Jones TH see Jones RD, 130P Jones TH see Pugh PJ, 131P Jose PA see Gomes P, 9P Jovanovic A see Ranki H, 13P

Kanke T see Macfarlane SR, 24P Kapus G, Kertesz Sz, Vegh M, Harsing LG Jr & Levay G Interaction of AMPA receptor modulators in the chicken retina, 87P Kelland EE & Toms NJ Attenuation of excitotoxic oligodendrocyte progenitor cell degeneration by the caspase inhibitor, Z-VAD-fmk, 106P Kelland EE see Toms NJ, 84P Kelly E see Ghadessy RS, 47P Kelly E see Hislop JN, 22P Kelly E see Mundell SJ, 21P Kelly JS see Finlayson K, 2P Kemp JA, Kew JNC, Mutel V, Jolidon S, Malherbe P, Vieira E, Wichmann J & Knoflach F Positive allosteric modulators of metabotropic glutamate receptor 1: characterisation and putative binding site, 6P Kemp JA see Kew JNC, 7P Kemp PA see Bennett T, 38P Kemp PA see Gardiner SM, 37P Kendall DA see Duncan M, 65P Kennedy C & Westfall TD Characterisation of the sites of action of ATP in the guinea-pig isolated vas deferens, 51P Kennedy C see Assis TS, 62P Kennedy C see Menzies JRW, 50P Kertész Sz see Kapus G, 87P Kew JNC, Knoflach F, Mutel V, Jolidon S, Malherbe P, Vieira E, Wichmann J & Kemp JA Positive allosteric modulation of native metabotropic glutamate 1 receptors, 7P

Kew JNC see Kemp JA, 6P

Kidd EJ see Clark JH, 46P

Kinsella A see Nally R, 18P

Kitchen I see Toms NJ, 84P

Knoflach F see Kemp JA, 6P

Knoflach F see Kew JNC, 7P

Koopman J see Mulder M, 146P

Kozlowski RZ see Borg JJ, 33P

Kozlowski RZ see Belsey MJ, 1P

Kozlowski RZ see Davies ARL, 3P

Kozlowski RZ see Hogg DS, 122P

Kozlowski RZ see Mulder M. 146P

Kulkarni R, Rose S, Edroos S & Jenner

Kilpatrick IC see Sisodiya A, 40P

P Effect of cytochrome P4502E1 inhibition on free radical formation and dopamine efflux in the rat substantia nigra, 108P Kvale EO, Patel NSA, Chatterjee PK, Sharpe MA & Thiemermann C The SOD mimetic EUK-134 reduces oxidative stress-mediated renal dysfunction in the rat in vivo, 69P Kvale EO, Patel NSA, Chatterjee PK, Sharpe MA & Thiemermann EUK-134 reduces oxidative stress-mediated injury and death of rat proximal tubule cells, 67P Kvale EO see Chatterjee PK, 11P Kvale EO see Patel NSA, 10P Lal H, Emery CJ, MacLean MR & Higenbottam TW Regional distribution of dexfenfluramine mediated pulmonary arterial vasoconstriction: comparative study in Wistar, Fawn

hooded and chronically hypoxic Wistar rats, 76P Lanao JM see Costa IM, 114P Langton P, Price S & Simms-Williams J What have databases ever done for us? Managing the task of assessment with a web-hosted database of questions, 151P Laranjinha J see Sousa T, 133P Lawrence S see Chazot PL, 89P Lawson K see Dawson NJ, 28P Lawson K see Dawson NJ, 134P Lawton A PROfusion: a broad-based proteomics platform, 144P Le Jeune IR, Houslay MD & Hall IP Human phosphodiesterase 4D: genomic organisation and identification of a putative promoter for splice variant five, 128P Lee JJ & Croucher MJ Influence of locally applied group I mGlu receptor ligands on neuronal 5-HT release in the rat frontal cortex in vivo, 93P Lees G, Errington AC, Culloty BM & Singh G Block of sustained repetitive firing in rat cultured cortical neurones by cis-9,10-octadecenoamide and the status of endogenous fatty acid amide hydrolase, 16P Lees G see Coyne L, 15P Leresche N see Manning J-PA, 102P Lever R see Raper MA, 113P Lever R see Rose MJ, 112P Lewis SJ see Graves JE, 29P Lévay G see Kapus G, 87P Little HJ see Croft AP, 19P Little HJ see Croft AP, 98P Lyons D see Mangoni AA, 35P

McArdle CA see Hislop JN, 22P McCafferty H Phage antibodies as discovery tools and drugs, 145P McCurrie JR see Eseh-Sumbele P, 132P MacDonald A see Tracey A, 79P McDonald JE see Budd DC, 48P McDonald MC, Mota-Filipe H, Cockerill GW, Miller NE & Thiemermann C Effects of human high-density lipoproteins (HDLs)on the multiple organ injury in haemorrhagic shock in the anaesthetised rat, 12P McDonald MC see Cuzzocrea S, 8P McDonald MC see d'Emmanuele di Villa Bianca R, 71P McDonald MC see Izumi M, 70P McDonald MC see Sepodes B, 72P McDonald MC see Wayman NS, 36P McDonald MC see Wayman NS, 138P Macedo TRA see Castel-Branco MM, 100P McEvoy LAF & Dora KA Intercellular calcium signalling via gap junctions in response to mechano-sensitive signals in rat aortic endothelial cells, 119P McFadzean I see Gibson A, 41P Macfarlane SR, Kanke T, Seatter M, Paul A & Plevin R Trypsin stimulates the NFkB transcriptional activity via an IKK isoform-independent pathway in NCTC 2544 transfected with human proteinase-activated receptor-2, 24P MacLean MR see Lal H, 76P MacMillan D & Gurney AM Modulation of sarcoplasmic reticulum calcium release in rabbit aorta by sodium nitroprusside, 135P McNamara F see Nally R. 18P McQueen DS see Gauldie SD, 63P McQueen DS see Moores C, 34P McQueen DS see Smith PJW, 39P Maguire JJ & Davenport AP Vasoactive responses to novel orphan receptor ligands hexarelin and ghrelin in human arteries in vitro, 123P Maguire JJ see Johnström P, 31P Maillard J-Y see Toward TJ, 73P Malherbe P see Kemp JA, 6P Malherbe P see Kew JNC, 7P Mangoni AA, Ouldred E, Allain TJ, Close JCT, Hilton D, Swift CG, Lyons D & Jackson SHD Abnormal vasomotor responses in patients with the vasodepressor form of carotid sinus syndrome, 35P Manning J-PA, Barnes D, Rombola L, Richards DA. Bowerv NG. Leresche N & Crunelli V Weak anti absence action

motor responses in patients with the vasodepressor form of carotid sinus syndrome, 35P

Manning J-PA, Barnes D, Rombola L, Richards DA, Bowery NG, Leresche N & Crunelli V Weak anti absence action of ethosuximide infused directly into the reticular thalamic nucleus (RTN) of the genetic absence epilepsy rat from Strasbourg (GAERS), 102P

Mapp PI see Yu Q, 77P

March JE see Bennett T, 38P

March JE see Gardiner SM, 37P

Markham A see Spedding M, 104P Marsden CA, Morris P, Chapman V, Prior M & Shah Y fMRI in animals to study neural pathways and drug action, 142P

Marsh WL & Davies JA The effect of gap junction inhibitors on GABA uptake inhibitor-induced depolarizations in mouse cortical slices, 96P Marshall K see Eseh-Sumbele P, 132P Martin TJ & Broadley KJ Exposure of a contractile response to adenosine in guinea-pig isolated trachea by passive sensitization, 74P

Mason R see Jagger L, 103P Matharu A see Hislop JN, 22P Matharu A-L see Mundell SJ, 21P Mayer G, Quinlan R & Taberner PV Agmatine and imidazoline site ligands in the mouse isolated vas deferens, 56P

Mayer G & Taberner PV Leptin and

insulin resistance in gold thioglucosetreated mice, 111P Mazzon E see Cuzzocrea S, 8P Meaden GM see Borg JJ, 33P Menton K see Spedding M, 104P Menzies JRW & Kennedy C Perinuclear

guinea-pig vas deferens, 50P Miller JC, Tse HW, Monaghan DT & Jane DE Pharmacological characterisation of the subunit selective NMDA receptor antagonist PPDA on neonatal

P2X<sub>7</sub>-like immunoreactivity in the

rat motoneurones, 88P

Miller NE see McDonald MC, 12P Mitchell JA see Gray PA, 27P Monaghan DT see Miller JC, 88P Moores C, McQueen DS & Bond SM PPADS, respiratory chemoreflexes and carotid sinus nerve discharge in anaesthetised rats, 34P

Morato M, Sousa T, Guimarães S, Moura D & Albino-Teixeira A Antihypertensive effects of losartan and atenolol on 1,3-dipropyl-8-sulfophenylxanthine (DPSPX)-induced hypertension, 125P

Morato M, Sousa T, Guimarães S, Moura D & Albino-Teixeira A Vascular reactivity in DPSPX (1,3dipropyl-8-sulfophenilxanthine)induced hypertension, 126P

More JCA, Troop HM & Jane DE N<sup>3</sup>Substituted willardiine analogues act
as kainate receptor antagonists in the
neonatal rat dorsal root preparation,
86P

Morris P see Marsden CA, 142P
Mota AV & Guimarães S Prejunctional
receptors of angiotensin II and bradykinin in the heart of newborn rats, 49P
Mota-Filipe H see McDonald MC, 12P
Mota-Filipe H see Pinto R, 57P
Mota-Filipe H see Sepodes B, 72P
Moura D see Morato M, 125P
Moura D see Morato M, 126P
Mulder M, Samadder M, Boutell J, Hart
D, Godber B, Koopman J, Kozlowski

RZ & Blackburn JM Functional protein arrays, 146P
Mundell S see Hislop JN, 22P
Mundell SJ, Matharu AL, Pula G,
Roberts PJ & Kelly E Internalization
of mGluR1 splice variants induced by
muscarinic receptor activation is PKCand CaM kinase II-dependent, 21P
Mutel V see Kemp JA, 6P
Mutel V see Kew JNC, 7P

Nahorski SR see Budd DC, 48P Nahorski SR see Willets JM, 20P Nally JE see Gribben EE, 75P Nally R, McNamara F, Clifford J, Kinsella A, Tighe O, Croke D, Fienberg A, Greengard P & Waddington J Topograpical assessment of dopamine receptor-mediated motor behavioural phenotype following DARPP-32 knockout, 18P Nettleship J see Pugh PJ, 131P Newgreen DT see Jackson P, 66P Nicholson RI see Clark JH, 46P Nijjer S see Vladimirov A, 107P Nock S Protein biochips as new tools in proteomics, 147P Norris TAM & Dewhurst DG A multisite evaluation of a project to implement CAL in undergraduate pharmacology teaching, 150P Nunes C see Sousa T, 133P Nutt DJ see Edwards MM, 110P Nutt DJ see Finch L, 54P Nutt DJ see Willmott G, 53P

O'Brien A, Thakur G, Cui Y, Singer M & Clapp LH Inhibition of the poreforming subunit of the K<sub>ATP</sub> channel partially reverses endotoxin-induced vascular hyporeactivity in rat superior mesenteric artery, 116P O'Neill GT, Rowan EG & Gurney AM Characterisation of muscarinic receptors mediating contraction in the rabbit pulmonary artery, 78P

Ouldred E see Mangoni AA, 35P

Paczkowski FA see Bryan-Lluka LJ, 17P
Page CP see Raper MA, 113P
Page CP see Rose MJ, 112P
Palma P, Barata JD, Branco P, Pinto R & Silva-Lima B Dietary supplementation with canned sardine improves the parameters of risk of cardiovascular disease: a study in old male rats, 124P
Palmer AM see Fazal A, 90P
Parker F see Fazal A, 90P
Parker TL see Jagger L, 103P
Patel NSA, Kvale EO, Chatterjee PK & Thiemer-mann C Effects of L-NIL and AE-ITU on the renal dysfunction

mediated by ischaemia-reperfusion of rat kidneys in vivo, 10P Patel NSA see Chatterjee PK, 11P Patel NSA see Kvale EO, 67P Patel NSA see Kvale EO, 69P Paul A see Macfarlane SR, 24P Pearce SM, Whitehead KJ, Whitehead SB, Walker G, Hill D & Bowery NG Effect of antagonists at the NMDA receptor complex on changes in amino acid efflux by Gly T-1 inhibition, 94P Peckham-Cooper A & af Forselles KJ Pharmacological characterisation of the female rat longitudinal urethra, Pennington RA, Hough KA, Yates A & Prince RJ Use of epibatidine to probe the binding site of the desensitised foetal muscle nicotinic acetylcholine receptor, 80P Pickard JD see Johnström P, 31P Pinto R, Mota-Filipe H, Barrento C & Silva-Lima B Effect of NO synthase/ guanylate cyclase inhibition in the rat vas deferens contractility and noradrenaline release, 57P Pinto R see Palma P, 124P Pinto R see Sepodes B, 72P Plevin R see Macfarlane SR, 24P Poston L see Torrens C, 59P Poyner DR see Cater HL, 82P Poyner DR see Conner AC, 45P Price S see Langton P, 151P Prince RJ see Pennington RA, 80P Prior M see Marsden CA, 142P Pugh PJ, Jones RD, Nettleship J, Jones TH & Channer KS Testosterone suppresses cytokine production in

Pugh PJ see Jones RD, 129P Pugh PJ see Jones RD, 130P Pula G see Mundell SJ, 21P Purbrick S see Borman RA, 137P

failure, 131P

whole blood from men with heart

Queiroz G & Gonçalves J Opposite influence of  $\alpha_2$ -autoreceptor activation on the  $A_1$ - and the  $A_2$ -adenosine receptor modulation of noradrenaline release in the isolated epididymal portion of rat vas deferens, 55P Quinlan R see Mayer G, 56P

Ralevic V see Duncan M, 65P Ralevic V see Thomas R, 115P Ranki H, Budas GR, Crawford RM & Jovanovic A Gender-dependent expression of sulfonylurea receptors in guinea-pig heart, 13P

Raper MA, Jones NA, Yano H, Lever R & Page CP The effect of protein kinase A inhibition on the antiproliferative actions of phosphodiesterase inhibitors in human peripheral blood

mononuclear cells, 113P
Reidy V, Watson M & Woodward B
The effect of HO-1 induction on the
post-ischaemic recovery of the isolated
rat heart, 140P

Rensing H see Zacharowski K. 30P Ribeiro JA see Cunha-Reis D, 83P Ribeiro JA see Sebastião AM, 5P Richards DA see Manning J-PA, 102P Richards GR see Glen CD, 4P Richards HK see Johnström P, 31P Roberts PJ see Mundell SJ, 21P Roberts PJ see Vladimirov A, 107P Robinson ESJ see Finch L, 54P Robinson ESJ see Willmott G, 53P Rombola L see Manning J-PA, 102P Rose MJ, Jones NA, Yano H, Lever R & Page CP The protein kinase A dependency of the effect of phosphodiesterase 4 inhibition on human neutrophil elastase and myeloperoxidase release in vitro, 112P

Rose S see Kulkarni RS, 108P
Rowan EG see Assis TS, 62P
Rowan EG see O'Neill GT, 78P
Ruban LN see Jones RD, 130P
Russo E & Constanti A Topiramate
enhances and prolongs the slow poststimulus afterhyperpolarization
(sAHP) in rat olfactory cortical
neurones in vitro, 81P
Russo E see De Sarro GB, 101P

Sales F see Almeida AM, 99P Salt TE see Binns KE, 85P Samaddar M see Mulder M, 146P Sandow SL see Dora KA, 121P Santos A, Cerejo A, Borges N, Azevedo I & Sarmento A Changes in brain mitochondrial function after head trauma: effect of mechanogated membrane ion channel blockers, 105P Sarmento A see Santos A, 105P Schofield IJ see Glen CD, 4P Seatter M see Macfarlane SR, 24P Sebastião AM see Cunha-Reis D, 83P Sebastião AM, de Mendonça A & Ribeiro JA Adenosine, through A, receptors, facilitates recovery from hypoxia by reducing synaptic NMDA receptor activation, 5P Sepodes B, Pinto R, McDonald MC, Mota-Filipe H & Thiemermann C

Mota-Filipe H & Thiemermann C
Dithiocarbamates attenuate the organ injury and dysfunction caused by endotoxin in the rat, 72P
Serraino I see Cuzzocrea S, 8P
Serrão P see Gomes P, 9P
Shah Y see Marsden CA, 142P
Sharkey J see Finlayson K, 2P
Sharpe MA see Izumi M, 70P
Sharpe MA see Kvale EO, 67P
Sharpe MA see Kvale EO, 69P
Shaw AM see Tracey A, 79P
Silva Lima B see Palma P, 124P

Silva Lima B see Pinto R, 57P Simms-Williams J see Langton P, 151P Singer M see O'Brien AJ, 116P Singh G see Lees G, 16P Siniscalchi A see De Sarro GB, 101P Sisodiya A, Kilpatrick IC, Emery CJ & Higenbottam TW Pulmonary vasoconstriction by dexfenfluramine is not modified by \alpha\_1-adrenoceptor antagonism or pre-treatment with an SSRI or SNRI in the Wistar rat lung, 40P Smith CGS, Whitehead KJ & Bowery NG Effect of selective GABA uptake inhibition on basal GABA and high K<sup>+</sup>-evoked release in the rat spinal cord in vivo, 95P

Smith DM see Conner AC, 45P Smith PJW & McQueen DS Sensory nerves innervating blood vessels induce cardiovascular and respiratory reflexes in response to algogens in anaesthetised rats, 39P

Soares-da-Silva P see Gomes P, 9P Soares-da-Silva P see Gomes P, 68P Soares-da-Silva P see Vieira-Coelho MA, 58P

Sokal DM & Chapman V Effects of GABA<sub>A</sub>-Receptor activation on electrically-evoked responses of dorsal horn neurones in control, spinal-nerve ligated and sham operated rats *in vivo*, 61P

Sousa T, Fernandes E, Carvalho F, Laranjinha J & Albino-Teixeira A Direct scavenging of nitric oxide by DPSPX (1,3-dipropyl-8-sulfophenylxanthine), 133P

Sousa T, Fernandes E, Carvalho F & Albino-Teixeira A Xanthine oxidase inhibition by DPSPX (1,3-dipropyl-8-sulfophenylxanthine), 127P Sousa T see Morato M, 125P Sousa T see Morato M, 126P Spedding M, Menton K, Gressens P, Villa P, Williamson T & Markham A Correlation of isatogen derivatives and spin traps as antagonists of ATP receptors and as neuroprotective agents: comparison with AMPA antagonists, 104P

Spencer IC see Borg JJ, 33P Starkey S see Jagger L, 103P Strati I see Eseh-Sumbele P, 132P Swift CG see Mangoni AA, 35P

Taberner PV see Mayer G, 56P
Taberner PV see Mayer G, 111P
Takano H see Dora KA, 121P
Thakur G see O'Brien AJ, 116P
Thiemermann C see Chatterjee PK, 11P
Thiemermann C see Cuzzocrea S, 8P
Thiemermann C see d'Emmanuele di
Villa Bianca R, 71P
Thiemermann C see Izumi M, 70P
Thiemermann C see Kvale EO, 67P

Thiemermann C see Kvale EO, 69P Thiemermann C see McDonald MC, 12P

Thiemermann C see Patel NSA, 10P Thiemermann C see Sepodes B, 72P Thiemermann C see Wayman NS, 36P Thiemermann C see Wayman NS, 138P Thomas R, Woon ML, Ralevic V & Alexander SPH An investigation of the role of cyclic nucleotides and potassium channels in the ADPinduced relaxation of the porcine isolated coronary artery, 115P Thompson CL see Chazot PL, 89P Tighe O see Nally R, 18P Tinker A see Cui Y. 118P Tobin AB see Budd DC, 48P Toms NJ, Bailey A, Kelland EE, Crawford D & Kitchen I Regional localisation of low affinity kainate receptors in murine brain via [3H]-(2S,4R)-4-methylglutamate autoradiography, 84P

Toms NJ see Kelland EE, 106P
Torrens C, Brawley L, Itoh S, Poston L
& Hanson MA Atypical β-adrenoceptor-mediated vasodilatation in rat
isolated small mesenteric arteries, 59P

Tough IR, De Souza RJ, Herzog H & Cox HM Pancreatic polypeptide responses in colonic mucosal and smooth muscle preparations from wild type and Y<sub>4</sub> receptor knockout mice, 44P

Toward TJ, Maillard JY, Boult JE & Broadley KJ Airway function, hyper-reactivity, cell influx and nitric oxide in conscious parainfluenza-3 infected guinea-pigs: Effect of dexamethasone and rolipram, 73P

Tracey A, Irvine J, Bunton D, Mac-Donald A & Shaw AM Relaxation to bradykinin in bovine pulmonary supernumerary arteries: role of nitric oxide and a guanylyl cyclase, 79P Troop HM see More JCA, 86P Tse HW see Howson PA, 91P Tse HW see Miller JC, 88P Turnbull L see Finlayson K, 2P Turner JP see Binns KE, 85P Tyacke RJ see Finch L, 54P Tyacke RJ see Willmott G, 53P

Valentin J-P see Wakefield ID, 136P Vandeputte C & Docherty JR Investigation of α-adrenoceptor-mediated responsiveness of aorta from α<sub>2Α/D</sub>-adrenoceptor knock-out mice, 52P Vegh M see Kapus G, 87P Vieira E see Kemp JA, 6P Vieira E see Kew JNC, 7P Vieira-Coelho MA, Bonifácio MJ & Soares-da-Silva P BIA 3-202, a fast and competitive tight-binding catechol-O-methyltransferase

inhibitor, 58P
Villa P see Spedding M, 104P
Vladimirov A, Nijjer S & Roberts PJ
Transformed astrocytes are vulnerable to AMPA- and kainate-induced excitotoxic injury, 107P
Vojnovic I see Gray PA, 27P

Waddington J see Nally R, 18P Wakefield ID, Gardiner SM, Valentin J-P & Bennett T Regional haemodynamic effects of the nitric oxide synthase inhibitors - methyl L-thiocitrulline in conscious Sprague-Dawley rats, 136P Walker G see Pearce SM, 94P Walker SD, Dora KA, Ings NT, Crane G & Garland CJ 1-Ethyl-2-benzimidazolinone activates endothelial cell IKCa and smooth muscle hyperpolarization in rat isolated mesenteric artery, 25P Wallace P see Gibson A, 41P Wanstall JC see Bryan-Lluka LJ, 17P Warner TD see Gray PA, 27P Warner TD see Zacharowski K, 30P Watson M see Reidy V, 140P Wayman NS, McDonald MC, Hattori Y & Thiemer-mann C The cyclopentenone prostaglandin 15d-PGJ, reduces the expression of iNOS and of mono-

cyte chemo-attractant protein-1 caused by ischaemia-reperfusion in the heart,

36P

Wayman NS, McDonald MS & Thiemermann C The peroxisomeproliferator activator receptor-y ligand pioglitazone reduces infarct size caused by myocardial ischaemia and reperfusion in the heart Westfall TD see Kennedy C, 51P Weston AH see Glen CD, 4P Wheatley M see Conner AC, 45P Whitehead KJ see Pearce SM, 94P Whitehead KJ see Smith CGS, 95P Whitehead SB see Pearce SM, 94P Wichmann J see Kemp JA, 6P Wichmann J see Kew JNC, 7P Willets JM, Challiss RAJ & Nahorski SR Evidence that endogenous GRK6 contributes to agonist-mediated phosphorylation of the M3 muscarinic receptor and subsequent uncoupling from Ga<sub>11</sub>, 20P Williams KÏ see Yu Q, 77P Williamson T see Spedding M, 104P Willmott G, Robinson ESJ, Tyacke RJ, Nutt DJ & Hudson A Functional characterisation of novel α,-adrenoceptor ligands in the mouse vas deferens, 53P Wilson AJ & Clapp LH Structurally dissimilar ATP-sensitive K<sup>+</sup> channel inhibitors have variable effects on relaxation to L-arginine in LPS-treated rat aortic rings, 117P Wilson S see Ford GK, 109P

Woodward B see Reidy V, 140P

Woodward B see Yu Q, 77P

Woolard J, Dunn WR & Aspley S
Relaxation of rat isolated mesenteric
small arteries in response to fluoxetine,
120P
Woon M-L see Thomas R, 115P
Worthington M see Jenkins S, 64P

Xu J see Gomes P, 9P

Yano H see Raper MA, 113P Yano H see Rose MJ, 112P Yates A see Pennington RA, 80P Yates L & Broadley KJ Protection by an adenosine A, agonist from myocardial stunning induced by simulated ischaemia of guinea-pig left atria, 139P

Yoshiizumi K see Dawson NJ, 28P Yu Q, Mapp PI, Woodward B & Williams KI Changes in pulmonary vascular reactivity during and after chronic hypoxia in rats, 77P

Zacharowski K, Rensing H, Frank S & Warner TD Doses of bacterial wall fragment of *S. aureus* that induce delayed preconditioning do not induce heme oxygenase-1 and inducible nitric oxide synthase, 30P

### **Keyword Index**

Absence epilepsy 102P ACE 137P Adenosine 5P, 55P, 74P, 139P Adenosine receptors 46P Adjuvant therapy 63P Adrenergic receptors 35P a.-Adrenoceptors 52P a.-Adrenoceptors 53P, 54P α<sub>2A/D</sub>-Adrenoceptors 52P β-Adrenoceptors, atypical 59P β,-Adrenoceptors 60P Adrenomedullin 82P Afferents 39P Agmatine 56P Airways 75P Airways, guinea-pig 74P Airway hyperreactivity 73P Alcohol 19P AMPA 87P, 101P, 106P, 107P AMPA antagonists 104P Anandamide 37P Angiotensin 137P Angiotensin II receptors 49P Angiotensin-converting enzyme 137P Antagonists 86P Antidepressants 1P Antiepileptics 100P Antihistamines 1P Aorta, mouse 52P Aorta, rat 28P, 117P Aorta, rat, aged 132P Arrhythmias 33P Arterial smooth muscle 26P Arteries, human 123P Arthritis 8P, 63P Astrocytes 107P ATP 51P, 62P ATP receptors 104P Autoradiography 84P α,-Autoreceptors 55P

Bacteria 30P
Baroreceptors 35P
Behavioural phenotypes 18P
2,3-Benzodiazepines 101P
Bladder 66P
Bradykinin 79P
Bradykinin receptors 49P
Brain 105P
Breast cancer 46P

CAL 141P, 149P, 150P

Calcitonin gene-related peptides 82P Calcitonin receptor-like receptor 45P Calcium 41P, 135P Calcium antagonism 130P Calcium signalling 119P Cannabinoids 37P, 64P, 65P Capacitative calcium entry 41P Capsaicin 66P Cardiorespiratory reflexes 39P Cardiovascular disease 124P Carotid sinus syndrome 35P Caspase 106P Cell death 103P Cerebellum 7P, 82P Cerebral cortex 90P CGRP binding 45P Chemoreceptors 34P Cholecystokinin 19P Chronic hypoxia 77P Cocaine 17P

Colonic responses 44P
Combinatorial biology technology 144P
Computer-assisted learning 141P
COMT 58P
Contingent negative variation 97P

Contractile variations 33P
Contractility 57P
Coronary arteries 115P
Cortical slices 96P
Corticosterone 98P
Corticotropin releasing factor 38P
CP-101,606 89P

CREB 60P Cytochrome P450 108P Cytokines 131P Cytoskeleton 68P

DARPP-32 18P
Desensitisation 47P, 80P
Dexfenfluramine 40P, 76P
Diabetes 29P
Dialysis 108P
Diethyldithiocarbamate 72P
Dithiocarbamate 72P
[³H]-Dofetilide 2P
Dopamine 68P
Dopamine receptors 18P
Dorsal root ganglia 62P
DPSPX 125P, 126P, 127P

Dynamin 22P

EDHF 4P, 26P, 121P

Electrophysiology 15P
Endothelial cells 4P, 122P, 199P
Endothelins 31P
Endothelium 25P, 26P, 121P
Endotoxin 72P
Enzyme kinetics 58P
Epibatidine 80P
Epilepsy 103P
Equilibrium dialysis 114P
Ethosuximide 102P
Evaluation 150P
Excitotoxicity 107P
Experimental design 141P

Fatty acid amide hydrolase 16P Feeding 109P Fluorine-18 31P Fluoxetine 120P Food intake 110P Functional MRI 142P

GABA 95P GABA depolarisation 96P GABA<sub>A</sub> 61P GABA receptors 15P Gap junctions 96P, 119P, 121P GAT-1 inhibition 95P Gender 13P Gene transcription 60P Ghrelin 123P Glutamate 84P, 90P, 91P Glycine 94P Glycosaminoglycans 75P GnRH 22P GPCR 6P G-Proteins 7P GRK6 20P GTPyS binding 23P Guanylyl cyclase 79P

Haemodynamics 37P, 38P, 136P
Haemorrhage 12P
HDL 12P
Heart 13P
Heart failure 131P
HEK 293 cells 118P
Hemin 140P
HERG 2P
Hexarelin 123P
High-density protein microarrays 143P
Hippocampal organotypic cultures 103P

Hippocampus 83P Histamine H3A receptors 42P HO-1 140P HPA axis 109P HPV 3P 5-HT release 93P Hyperphagia 110P Hypertension 125P, 126P, 127P, 133P Hypoxia 3P, 5P, 77P

Idazoxan 53P, 54P IKK 24P Imidazoline 110P Imidazoline sites 56P In silico 148P In vitro 14P Inflammation 8P iNOS inhibitors 10P Insulin resistance 111P Interaction at prejunctional level 49P Internalisation 21P, 22P Intestine, human 137P Ischaemia 140P Ischaemia-reperfusion 11P, 36P, 71P, Ischaemia-reperfusion injury 10P, 67P, 69P Isolated arteries 129P Isolated perfused heart 33P

Kainate 84P, 85P, 86P Kidney 10P, 11P, 67P, 69P, 71P Kidney, opossum 9P Kinase 48P

Lamotrigine 99P, 100P Learning 97P Leptin 111P Liver 58P Localisation 48P LPS 116P, 117P Lung 40P LY341495 92P LY382884 85P

Mesenteric arteries 25P, 116P Mesenteric bed 65P Metabotropic glutamate receptors 6P, 7P, 21P, 90P, 92P, 93P S-Methyl-1-thiocitrulline 136P Microdialysis 93P MicroPET 31P Mitogen activated protein kinase 46P Mononuclear cells 113P Mouse 63P Mucosal ion transport 43P Multiple organ injuries 12P, 70P Muscarinic receptors 78P Muscarinic M3 receptors 20P Muscimol 61P Muscle contractions 78P Mutagenesis 17P

Myocardial contractility 139P Myocardial stunning 139P Myocardium 30P

Neonatal rat 91P Nerve stimulation 14P Neurokinin 66P Neuropathy 61P Neuropeptide Y 22P Neuropharmacokinetics 100P Neutrophils 112P NF<sub>k</sub>B 24P Nicotine 97P Nicotinic acetylcholine receptors 80P Nisoxetine 120P Nitric oxide 8P, 57P, 73P, 132P, 133P, 135P Nitric oxide synthase 136P Nitric oxide-flurbiprofen 27P NMDA 5P, 88P, 94P NMDA receptors 89P NMDA receptor antagonist subtypes Nociception 64P Non-selective cation currents 122P Noradrenaline transporters 17P

Obesity 111P
Oestrogen-induced relaxation 132P
Old rats 124P
Oleamide 16P
Olfactory cortex 81P
Oligodendrocytes 106P
Oligonucleotide fingerprinting 143P
Omega-3 fatty acids 124P
Orexin-A 109P
Oxygen sensitivity 3P

Novelty 98P

Nucleus 50P

Noxious stimuli 142P

Purinoceptor P2 subtypes 51P, 62P, Purinoceptor P2X subtypes 34P, 50P Pancreatic polypeptides 43P, 44P PAR-2 24P Parainfluenza-3-induced inflammation 73P Passive sensitisation 74P PDTC 71P Peroxynitrite 29P Phage displays 145P Pharmacokinetics 99P Pharmacological MRI 142P Pharmacophores 28P, 134P Phosphodiesterase 112P, 113P, 128P Phosphorylation 20P, 48P Pioglitazone 138P Platelets, human 27P PNU99963 118P Positive modulators 87P Potassium ATP channels 116P, 117P, 118P

Potassium channels 4P, 25P Potassium channel openers 28P, 134P Potassium currents 3P PPADS 34P PPAR-y 36P, 138P PPAR-γ ligand 11P PPDA 88P Pre-synaptic α,-receptors 56P Prostaglandin 15d-PGJ2 36P Protease 75P Protection 30P Protein binding 114P Protein biochips 147P Protein kinase 21P Protein kinase A 112P, 113P Protein microarrays 146P Proteomics 143P, 144P, 145P, 146P, 147P, 148P Pulmonary arteries 76P, 78P, 79P, 122P Pulmonary hypertension 77P

QT syndrome 2P

Radical scavengers 70P
RAMP1 45P
Reactive oxygen species 67P, 69P, 70P
Receptors 47P
Receptor interaction 55P
Recombinant 42P
Reflex 64P
Renal epithelial 9P
Renin-angiotensin system 125P, 126P
Resin acids 15P
Resistance vessels 59P
Retina, chicken 87P
Reuptake 94P
Rubidium 134P

Secretin 47P
Sensory neurotransmission 65P
Slow after-hyperpolarization 81P
Smooth muscle cells 130P, 135P
Social defeat 19P, 98P
Sodium plus potassium ATPase 68P
Sodium transporters 9P
SPECT 53P, 54P
Spinal cord 88P, 91P, 92P, 95P
Splice variants 128P
Substantia nigra 108P
Sulfonylurea receptors 13P
Sustained repetitive burst firing 16P
Synaptic transmission 83P

Tagged proteins 146P TAL 151P Testosterone 129P, 130P, 131P Thalamus 85P, 102P Thromboxane formations 27P TLRP 149P, 150P Topiramate 81P, 101P Transfection 128P Trauma 105P TRIM 41P TTC 105P

Urethra 14P Urotensin II 38P

Vas deferens 50P, 51P, 57P Vascular hypertrophy 125P Vascular reactivity 77P, 126P, 129P

Vasculature 39P Vasoconstriction 40P, 76P Vasodilatation 29P, 59P, 120P

Warfarin enantiomers 114P

Vasorelaxation 115P

VEEG 99P VIP 83P VSOAC 1P Web-hosted databases 151P Willardiine 86P

Xanthine oxidase 127P

Y1 receptors 22P Y2 receptor knockout 43P Y4 receptor knockout 44P