

# MONASH UNIVERSITY

## DEPARTMENT OF PHARMACOLOGY

YEAR	PATENTS	BOOK CHAPS.	PAPERS	TOTAL IMPACT FACTOR	AV. IMP. FACT.	ABSTRACTS
2000	2	3	47	112.622	2.747	103
2001	0	1	39	108.585	3.102	68
2002	0	1	22	70.721	3.214	78
2003	0	0	46	140.585	3.056	59
2004	0	1	35	102.238	2.921	59
AT 1.12.2005	0	0	54	177.287	3.283	46

## **PUBLICATIONS 2000**

### **PATENTS 2000**

**BEART, P.M., O'SHEA, R.D., APRICO, K. & LAWRENCE, A.J.**

SYM 116 – new provisional patent application “Screen for glutamate reuptake inhibitors, stimulators and modulators.”

US Patent, 20293/47, 2000.

**BEART, P.M., O'SHEA, R.D., APRICO, K., LAWRENCE, A.J. & MACCECCHINI, M.-L.**

SYM 118 – new provisional patent application “Screen for glutamate reuptake inhibitors, stimulators and modulators.”

US Patent, 20293/49, 2000.

### **BOOK CHAPTERS 2000**

**BEART, P.M.**

The Brain's Chemistry.

In: “*Integrative neuroscience*”

Ed. E. Gordon, Harwood Academic Publishers, Amsterdam, pp.75-85, 2000.

**TREGEAR, G.W., BATHGATE, R.A., CLAASZ, A., DAWSON, N.F., FERRARO, T., MACRIS, M., MATHIEU, M., SUMMERS, R.J., TAN, Y.-Y., ZHAO, L. & WADE, J.D.**

Relaxin and relaxin-related peptides: synthesis, structure and biological function.

In: “*Peptides for the new millenium.*”

Eds.G.B. Fields, J.P.Tan & G. Barany, Kluwer Academic Publishers, pp.660-663, 2000.

**WADE, J.D., TAN, Y.-Y., OTVOS, L. JNR, SUMMERS, R.J. & TREGEAR, G.W.**

Towards defining the biologically active site of relaxin.

In: “*Peptides for the new millenium.*”

Eds.G.B. Fields, J.P.Tan & G. Barany, Kluwer Academic Publishers, pp.664-665, 2000.

### **PAPERS AND REVIEW ARTICLES 2000**

**BANWELL, M., HOCKLESS, D., JARROTT, B., KELLY, B., KNILL, A., LONGMORE, R. & SIMPSON, G.**

Chemoenzymatic approaches to the decahydro- *as*-indacene cores associated with the spinosyn class of insecticide.

*Journal of the Chemical Society - Perkin Transactions - 1*, 3555-3558, 2000. **(Impact Factor 2.420)**

**BELL, K., FAVALORO, J., KHALIL, V., ISKANDER, M. & MCPHERSON, G.A.**

The identification of a potent imidazoline-based vascular K<sub>ATP</sub> channel antagonist.

*Naunyn-Schmiedeberg's Archives of Pharmacology*, **362**, 145-151, 2000. **(Impact Factor 1.963)**

**BENTLEY, K.R. & JARROTT, B.**

Lipopolysaccharide decreases bradykinin receptor-induced acidification responses in cultured bovine aortic endothelial cells.

*European Journal of Pharmacology*, **402**, 11-18, 2000. **(Impact Factor 2.432)**

**CALLAWAY, J.K., KNIGHT, M.J., WATKINS, D.J., BEART, P.M., JARROTT, B. & DELANEY, P.M.**

A novel, rapid, computerised method for quantitation of neuronal damage in a rat model of stroke.  
*Journal of Neuroscience Methods*, **102**, 53-60, 2000. (Impact Factor 1.894)

**CAMM, E.J., GIBBS, M.E., COCK, M.L., REES, S.M. & HARDING, R.**

Assessment of learning ability and behaviour in low birthweight lambs following intrauterine growth restriction.

*Reproduction, Fertility and Development*, **12**, 165-172, 2000. (Impact Factor 0.920)

**CASTILLO-MELENDZ, M., MCKINLEY, M.J. & SUMMERS, R.J.**

Intracerebroventricular administration of the  $\beta_3$ -adrenoceptor agonist CL 316243 causes Fos immunoreactivity in discrete regions of rat hypothalamus.

*Neuroscience Letters*, **290**, 161-164, 2000. (Impact Factor 2.019)

**CHEN, F. & LAWRENCE, A.J.**

Effect of chronic ethanol and withdrawal on the  $\mu$ -opioid receptor- and 5-hydroxytryptamine<sub>1A</sub> receptor-stimulated binding of [<sup>35</sup>S]Guanosine-5'-O-(3-thio)triphosphate in the fawn-hooded rat brain: a quantitative autoradiography study.

*Journal of Pharmacology and Experimental Therapeutics*, **293**, 159-165, 2000. (Impact Factor 4.335)

**CHEN, F. & LAWRENCE, A.J.**

5-HT transporter sites and 5-HT<sub>1A</sub> and 5-HT<sub>3</sub> receptors in fawn-hooded rats: a quantitative autoradiography study.

*Alcoholism, Clinical and Experimental Research*, **24**, 1093-1102, 2000. (Impact Factor 2.508)

**CHEUNG, N.S., BEART, P.M., PASCOE, C.J., JOHN C.A. & BERNARD, O.**

Human *Bcl-2* protects against AMPA receptor-mediated apoptosis.

*Journal of Neurochemistry*, **74**, 1613-1620, 2000. (Impact Factor 4.824)

**CHURCH, J.E. & HODGSON, W.C.**

Dose-dependent cardiovascular and neuromuscular effects of stonefish (*Synanceja trachynis*) venom.

*Toxicon*, **38**, 391-407, 2000. (Impact Factor 1.862)

**CROSSLEY, K.J., WALKER, D.W., BEART, P.M. & HIRST, J.J.**

Characterisation of GABA<sub>A</sub> receptors in fetal, neonatal and adult ovine brain: region and age related changes and the effects of allopregnanolone.

*Neuropharmacology*, **39**, 1514-1522, 2000. (Impact Factor 3.734)

**CURTIS, N.E., KING, R.G., MOSELEY, J.M., HO, P.W.M., RICE, G.E. & WLODEK, M.E.**

Preterm fetal growth restriction is associated with increased parathyroid hormone-related protein expression in the fetal membranes.

*American Journal of Obstetrics and Gynaecology*, **183**, 700-705, 2000. (Impact Factor 2.437)

**FONG, A.Y., TALMAN, W.T. & LAWRENCE, A.J.**

Axonal transport of NADPH-diaphorase and [<sup>3</sup>H]nitro-L-arginine binding, but not [<sup>3</sup>H]cGMP binding, by rat vagus nerve.

*Brain Research*, **878**, 240-246, 2000. (Impact Factor 2.389)

**GIBBS, M.E. & SUMMERS, R.J.**

Separate roles for  $\beta_2$  and  $\beta_3$  – adrenoceptors in memory consolidation.

*Neuroscience*, **95**, 913-922, 2000. (Impact Factor 3.456)

**GUDE, N.M., STEVENSON, J.L.\*, MOSES, E.K. & KING, R.G.**

Magnesium regulates hypoxia-stimulated apoptosis in the human placenta.

*Clinical Science*, **98**, 375-380, 2000. (Impact Factor 2.168)

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

$\beta_3$  –adrenoceptor regulation and relaxation responses in mouse ileum.

*British Journal of Pharmacology*, **129**, 1251-1259, 2000. (Impact Factor 3.325)

**JARROTT, B.**

Web resources for teaching pharmacology.

*Journal of Medical Education*, **4**, 74-78, 2000. (No Impact Factor)

**KHA, H.T., FINKELSTEIN, D.I., POW, D.V., LAWRENCE, A.J. & HORNE, M.K.**

Study of projections from the entopeduncular nucleus to the thalamus of the rat.

*Journal of Comparative Neurology*, **426**, 366-377, 2000. (Impact Factor 3.400)

**KOMPA, A. & SUMMERS, R.J.**

Lidocaine and surgical modification reduces mortality in a rat model of cardiac failure induced by coronary artery ligation.

*Journal of Pharmacological and Toxicological Methods*, **43**, 199-203, 2000. (No Impact Factor)

**LAU, W.A.K., PENNEFATHER, J.N. & MITCHELSON, F.J.**

Cholinergic facilitation of neurotransmission to the smooth muscle of the guinea-pig prostate gland.

*British Journal of Pharmacology*, **130**, 1013-1020, 2000. (Impact Factor 3.325)

**LODGE, D.J., SHORT, J.L., MERCER, L.D., BEART, P.M. & LAWRENCE, A.J.**

CCK/dopamine interactions in Fawn-Hooded and Wistar-Kyoto rat brain.

*Peptides*, **21**, 379-386, 2000. (Impact Factor 2.511)

**MATHIEU, M.N., WADE, J.N., TAN, Y.-Y., SUMMERS, R.J. & TREGEAR, G.W.**

Novel strategy for the synthesis of template-assembled analogues of rat relaxin.

*Journal of Peptide Science*, **6**, 235-242, 2000. (Impact Factor 1.652)

**MCCALL, L., LIDDELL, M., O'NEIL, J.N. (PENNEFATHER) & CONAN, G.**

Strategies to increase the representation of women on the academic staff of the faculty of medicine at Monash University.

*The International Journal of Higher Education and Educational Planning*, **39**, 131-149, 2000. (No Impact Factor)

**MCDUGALL, S.J., PAULL, J.R.A., WIDDOP, R.E. & LAWRENCE, A.J.**

Restraint stress: Differential cardiovascular responses in Wistar-Kyoto and spontaneously hypertensive rats.

*Hypertension*, **35**, 126-129, 2000. (Impact Factor 5.342)

**MCDUGALL, S.J., ROULSTON, C.A., WIDDOP, R.E. & LAWRENCE, A.J.**

Characterisation of vasopressin  $V_{1A}$ , angiotensin  $AT_1$  and  $AT_2$  receptor distribution and density in normotensive and hypertensive rat brain stem and kidney: effects of restraint stress.

*Brain Research*, **883**, 148-156, 2000. (Impact Factor 2.389)

**MCLAREN, W.J., YOUNG, I.R. & RICE, G.E.**

Immunohistochemical localization of prostaglandin G/H synthase 1 and 2 in sheep placenta after glucocorticoid-induced and spontaneous labour.

*Journal of Reproduction and Fertility*, **120**, 33-39, 2000. (Impact Factor 0.420)

**MERCER, L.D., LE, V.Q., NUNAN, J., JONES, N.M. & BEART, P.M.**

Direct visualization of cholecystokinin subtype2 receptors in rat central nervous system using anti-peptide antibodies.

*Neuroscience Letters*, **293**, 167-170, 2000. (Impact Factor 2.019)

**MOLDRICH, R.X., BEART, P.M., PASCOE, C.J. & CHEUNG, N.S.**

Low-affinity kainate receptor agonists induce insult-dependent apoptosis and necrosis in cultured cortical neurons.

*Journal of Neuroscience Research*, **59**, 788-796, 2000. (Impact Factor 3.727)

**MOLDRICH, R.X., CHEUNG, N.S., PASCOE, C.J., BAKER, R., PEDREGAL, C. & BEART, P.M.**

Excitotoxic profile of LY339434, a GluR5 agonist, in cultured murine cortical neurons.

*Brain Research*, **862**, 270-275, 2000. (Impact Factor 2.389)

**OSMOND, D.T.D., NOLAN, C.J., KING, R.G., BRENNECKE, S.P. & GUDE, N.M.**

Effects of gestational diabetes on human placental glucose uptake, transfer and utilisation.

*Diabetologia*, **43**, 576-582, 2000. (Impact Factor 5.583)

**PADUNGCHAICHOT, P., WONG, J.Y.F., NATOLI, A.L., MASSALAS, J.S., FINKELSTEIN, D.I., LAWRENCE, A.J. & DRAGO, J.**

Early direct and transneuronal effects in mice with targeted expression of a toxin gene to D1 dopamine receptor neurons.

*Neuroscience*, **95**, 1025-1033, 2000. (Impact Factor 3.456)

**PATAK, E.N., PENNEFATHER, J.N. & STORY, M.E.**

Effects of tachykinins on uterine smooth muscle.

*Clinical and Experimental Pharmacology and Physiology*, **27**, 922-927, 2000. (Impact Factor 1.672)

**PATAK, E.N., PENNEFATHER, J.N. & STORY, M.E.**

The effects of tachykinins on uterine smooth muscle.

*Proceedings of the Australian Physiological and Pharmacological Society*, **31**, 97-109, 2000. (No Impact Factor)

**PATAK, E.N., ZICCONI, S., STORY, M.E., FLEMING, A.J., LILLEY, A. & PENNEFATHER, J.N.**

Activation of neurokinin NK<sub>2</sub> receptors by tachykinin peptides causes contraction of uterus in pregnant women near term.

*Molecular Human Reproduction*, **6**, 549-554, 2000. (Impact Factor 3.072)

**PENNEFATHER, J.N., LAU, W.A.K., MITCHELSON, F. & VENTURA, S.**

The autonomic and sensory innervation of the smooth muscle of the prostate gland: a review of pharmacological and histological studies.

*Journal of Autonomic Pharmacology*, **20**, 193-206, 2000. (No Impact Factor)

**PRESTON, A., LAU, W.A.K., PENNEFATHER, J.N. & VENTURA, S.**

Effects of adenine nucleosides and nucleotides on neuromuscular transmission to the prostatic stroma of the rat.

*British Journal of Pharmacology*, **131**, 1073-1080, 2000. (Impact Factor 3.325)

**RASH, L.D., BIRINYI-STRACHAN, L.C., NICHOLSON, G.M. & HODGSON, W.C.**

Neurotoxic activity of venom from the Australian Eastern mouse spider (*Missulena bradleyi*) involves modulation of sodium channel gating.

*British Journal of Pharmacology*, **130**, 1817-1824, 2000. (Impact Factor 3.325)

**RASH, L.D., KING, R.G. & HODGSON, W.C.**

Sex differences in the pharmacological activity of venom from the white-tailed spider (*Lampona cylindrata*).

*Toxicon*, **38**, 1111-1127, 2000. (Impact Factor 1.862)

**SALAMOUSSA, A., LAU, W.A.K., PENNEFATHER, J.N. & VENTURA, S.**

The contractile effects of endothelins on the smooth muscle of the rat prostate gland.

*European Journal of Pharmacology*, **403**, 139-145, 2000. (Impact Factor 2.432)

**SNELL, B.J., SHORT, J.L., DRAGO, J., LEDENT, C. & LAWRENCE, A.J.**

Characterisation of central adenosine A<sub>1</sub> receptors and adenosine transporters in mice lacking the adenosine A<sub>2a</sub> receptor.

*Brain Research*, **877**, 160-169, 2000. (Impact Factor 2.389)

**SNELL, B.J., SHORT, J.L., DRAGO, J., LEDENT, C. & LAWRENCE, A.J.**

Visualisation of AMPA binding sites in the brain of mice lacking the adenosine A<sub>2a</sub> receptor.

*Neuroscience Letters*, **291**, 97-100, 2000. (Impact Factor 2.019)

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

Acute and chronic restraint stress: effects on [<sup>125</sup>I]-galanin binding in normotensive and hypertensive rat brain.

*Brain Research*, **873**, 318-329, 2000. (Impact Factor 2.389)

**SWEERTS, B., JARROTT, B. & LAWRENCE, A.J.**

[<sup>125</sup>I]-Galanin binding sites in human inferior vagal ganglia.

*Life Sciences*, **67**, 2685-2690, 2000. (Impact Factor 2.158)

**VENTURA, S., LAU, W.A.K., BULJUBASICH, S. & PENNEFATHER, J.N.**

Calcitonin gene-related peptide (CGRP) inhibits contractions of the prostatic stroma of the rat but not the guinea-pig.

*Regulatory Peptides*, **91**, 63-73, 2000. (Impact Factor 2.531)

**VENTURA, S., LAU, W.A.K., BULJUBASICH, S. & PENNEFATHER, J.N.**

Species differences in the actions of sensory neuropeptides on contractility of the smooth muscle of the rat and guinea-pig prostate.

*Clinical and Experimental Pharmacology and Physiology*, **27**, 917-921, 2000. (Impact Factor 1.672)

**VENTURA, S., LAU, W.A.K., BULJUBASICH, S. & PENNEFATHER, J.N.**

Species differences in the actions of sensory neuropeptides on contractility of the smooth muscle of the rat and guinea-pig prostate.

*Proceedings of the Australian Physiological and Pharmacological Society*, **31**, 88-96, 2000. ( No Impact Factor )

**VO, L.T., PAPWORTH, G.D., DELANEY, P.M., BARKLA, D.H. & KING, R.G.**

*In vivo* mapping of the vascular changes in skin burns of anaesthetised mice by fibre optic confocal imaging (FOCI): comparison with vascular casting.

*Journal of Dermatological Science*, **23**, 46-52, 2000. (Impact Factor 1.477)

**YAO, S.T., BARDEN, J.A., FINKELSTEIN, D.I., BENNETT, M.R. & LAWRENCE, A.J.**

A comparative study on the distribution patterns of P2X1-P2X6 - receptor immunoreactivity in the brainstem of the rat and common marmoset (*Callithrix jacchus*): association with catecholamine cell groups.

*Journal of Comparative Neurology*, **427**, 485-507, 2000. (Impact Factor 3.400)

**ABSTRACTS****2000****APRICO, K., BEART, P.M., JARROTT, B., CRAWFORD, D. & O'SHEA, R.D.**

[<sup>3</sup>H]-(2S,4R)-4-methylglutamate: a novel ligand for the characterisation of astrocytic glutamate transporters. *Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 1442 (Abstract 539.8), 2000.

**BEART, P.M. & GIARDINA, S.F.**

Roles for cyclin-dependent and mitogen-activated protein kinases in kainate receptor-mediated apoptosis. *Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 1882 (Abstract 702.3), 2000.

**BEART, P.M., MOLDRICH, R.X., CHEUNG, N.S., PEDREGAL, C. & BAKER, R.S.**

Excitotoxic profile of LY339434 at murine cultured cortical neurons. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 7*, 61 (Oral 13-2), 2000.

**BEART, P.M., MERCER, L.D. & JONES, N.M.**

Localization of metabotropic glutamate receptor type 3 (mGluR3) in rat brain by immunohistochemistry. *Proceedings of the Australian Neuroscience Society, 11*, 242 (Poster 2-228), 2000.

**BELL, K.L. & MCPHERSON, G.A.**

Pharmacological actions of novel disubstituted imidazolines. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 8*, 93 (Poster 1.29), 2000.

**BENTLEY, K.R. & JARROTT, B.**

Evidence that transforming growth factor- $\alpha$  reduces bradykinin-stimulated proton excretion in human epithelial cells. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 7*, 125 (Poster 2-25), 2000.

**BENTLEY, K.R. & MCPHERSON, G.A.**

K<sup>+</sup> hyperpolarises smooth muscle in rat mesenteric artery by activating inwardly rectifying potassium channels and NA<sup>+</sup>/K<sup>+</sup> ATPASE. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 8*, 136 (Poster 2-43), 2000.

**CALLAWAY, J.K.**

Investigation of AM-36: a novel neuroprotective agent. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 8*, 77 (Oral 12.11), 2000.

**CALLAWAY, J.K., GIARDINA, S.F., BEART, P.M. & JARROTT, B.**

AM-36, a hybrid neuroprotective compound with sodium channel blocking and antioxidant activities profoundly inhibits veratridine-induced apoptosis in cultured cerebellar neurons. *Stroke, 31*, 63, 2000.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Hypoxia during late incubation impairs memory consolidation in the postnatal chick. *Fetal and Neonatal Physiological Society, 50*, 2000.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Involvement of noradrenaline in memory impairment of growth restricted chicks. *Fourteenth National Workshop on Fetal and Neonatal Physiology, A5*, 2000.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Learning and memory in the chick: influence of prenatal hypoxia. *Endocrinology and Development, 81* (Poster 13), 2000.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Postnatal growth, learning and memory in the chick: influence of prenatal hypoxia and growth restriction. *Proceedings of the Perinatal Society of Australia and New Zealand*, **4**, A3, 2000.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

The effects of prenatal hypoxia on passive avoidance training in the chick. *Proceedings of the Australian Neuroscience Society*, **11**, 167 (Poster 1-217), 2000.

**CASTILLO-MELENDEZ, M. & SUMMERS, R.J.**

Intracerebroventricular administration of the  $\beta_3$ -adrenoceptor agonist CL 316243 causes immediate early gene expression in rat brain. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 72 (Oral 16-5), 2000.

**CASTILLO-MELENDEZ, M. & SUMMERS, R.J.**

Intracerebroventricular injection of the  $\beta_3$ -adrenoceptor agonist CL 316243 causes *c-FOS* immunoreactivity in defined areas of rat brain. *Proceedings of the Australian Neuroscience Society*, **11**, 170 (Poster 1-229), 2000.

**CASTILLO-MELENDEZ, M. & SUMMERS, R.J.**

Regulation of FOS expression by the  $\beta_1$  adrenoceptor agonist RO363 in rat brain. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 144 (Poster 2-59), 2000.

**CHEN, F., CHEEMA, S. & LAWRENCE, A.J.**

The effect of chronic ethanol and withdrawal on agonist-stimulated binding of [ $^{35}$ S]GTP gamma S in the fawn-hooded rat brain: a quantitative autoradiography study. *Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 1820 (Abstract 674.9), 2000.

**CHEN, F. & LAWRENCE, A.J.**

The effect of chronic ethanol and withdrawal on agonist-stimulated binding of [ $^{35}$ S]GTP $\gamma$ S in fawn-hooded rat brain: a quantitative autoradiography study. *Proceedings of the Australian Neuroscience Society*, **11**, 242 (Poster 2-226), 2000.

**CHEUNG, N.S., BEART, P.M., PASCOE, C.J., JOHN, C.A. & BERNARD, O.**

Human *Bcl-2* protects against AMPA receptor-mediated apoptosis. *Proceedings of the Australian Neuroscience Society*, **11**, 53 (Oral 8-3), 2000.

**CHURCH, J.E. & HODGSON, W.C.**

Evidence for the presence of a cholinomimetic in the venom of the stonefish (*Synanceia trachynis*). *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 90 (Poster 1-28), 2000.

**CHURCH, J.E. & HODGSON, W.C.**

Similarities in the pharmacological activity of venoms from Australian fish. *Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 15 (Oral 2.22), 2000.

**CHURCH, J.E. & HODGSON, W.C.**

Similarities in the pharmacological activity of the venom of two Australian scorpaeniformes, *Gymnapistes marmoratus* and *Pterois volitans*. *Proceedings on the XIIIth congress of the International Society on Toxinology*, Abstract P245, 2000.

**CROSSLEY, K.J., WALKER, D.W., NITSOS, I., BEART, P.M. & HIRST, J.J.**

Distribution of allopregnanolone sensitive GABA<sub>A</sub> receptors in fetal sheep brain.

*Proceedings of the Australian Neuroscience Society*, **11**, 83 (Oral 16-2), 2000.

**CROSSLEY, K.J., WALKER, D.W., NITSOS, I., BEART, P.M. & HIRST, J.J.**

Neuroactive steroid sensitive GABA<sub>A</sub> receptors in the fetal brain.

*Fourteenth National Workshop on Fetal and Neonatal Physiology*, A1, 2000.

**DUKE, L.M., PAULL, J.R.A. & WIDDOP, R.E.**

Cardiovascular status following combined angiotensin converting enzyme and AT<sub>1</sub> receptor inhibition in conscious hypertensive rats.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 137 (Poster 2-46), 2000.

**EVANS, B.A.**

Novel atypical β-adrenoceptors: distinct genes or new states of existing receptors?

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 3 (Symposium 1-6), 2000.

**FAVALORO, J.L. & MCPHERSON, G.A.**

Novel imidazoline compounds which antagonise K<sup>+</sup>-induced vasorelaxation in rat middle cerebral artery.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 12 (Oral 2.14), 2000.

**FINKELSTEIN, D.I., STANIC, D., PARISH, C.L., KRSTEW, E.V., LAWRENCE, A.J., BUTLER, E.G. & HORNE, M.K.**

Ultrastructure and function of sprouting substantia nigra neurons after injury.

*Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 2118 (Abstract 794.10), 2000.

**FONG, A.Y. & LAWRENCE, A.J.**

[<sup>3</sup>H]cGMP binding in the nodose ganglion and brainstem of unilateral nodose ganglionectomized normotensive and hypertensive rats.

*Proceedings of the Australian Neuroscience Society*, **11**, 169 (Poster 1-227), 2000.

**FRY, B.G., WICKRAMARATNA, J.C., LEMME, S., BEUVE, A., GARBERS, D., HODGSON, W.C. & ALEWOOD, P.**

Structure-function properties of novel natriuretic peptides from Australian elapid venoms.

*Proceedings on the XIIIth congress of the International Society on Toxinology*, Abstract L19, 2000.

**GHAFFRA, A.K., GUDE, N.M., KING, R.G. & BRENNECKE, S.P.**

Increased adrenomedullin content in fetal membranes during human labour at term and pre-term gestations.

*Endocrinology and Development*, 2000.

**GHAFFRA, A.K., GUDE, N.M., KING, R.G. & BRENNECKE, S.P.**

Increased adrenomedullin content in fetal membranes during term labor.

*Placenta*, **21**, A48 (Abstract 184), 2000.

**GIARDINA, S.F. & BEART, P.M.**

Kainate-mediated apoptosis is attenuated by inhibitors of cyclin dependent and mitogen-activated protein kinases in cerebellar granule cell cultures (CGCs).

*Proceedings of the Australian Neuroscience Society*, **11**, 52 (Oral 8-2), 2000.

**GIBBS, M.E. & SUMMERS, R.J.**

Beta 3-adrenoceptor agonists may consolidate memory in the chick by facilitating glucose transport.  
*European Journal of Neuroscience*, **12 Supplement 11**, 203 (Abstract 100.19), 2000.

**GIBBS, M.E. & SUMMERS, R.J.**

$\beta_3$ -Adrenoceptor agonists promote memory consolidation and glucose transport in the chick.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 71 (Oral 16-4), 2000.

**GIBBS, M.E. & SUMMERS, R.J.**

Interaction between  $\beta_3$ -adrenoceptor agonists and glucose transport in memory consolidation in the chick.  
*Proceedings of the Australian Neuroscience Society*, **11**, 47 (Oral 6-8), 2000.

**GIBBS, M.E. & SUMMERS, R.J.**

Role for  $\alpha_2$ -adrenoceptors in memory formation in the chick.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 145 (Poster 2-61), 2000.

**HANNAN, R.E., DAVIS, E.A. & WIDDOP, R.E.**

Mechanisms underlying the modulatory effects of angiotensin II AT<sub>2</sub> receptor activation in the rat uterine artery.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 145 (Poster 2-62), 2000.

**HEFFERNAN, M.A., HUTCHINSON, D.S., HAMILTON, S., SUMMERS, R.J. & NG, F.M.**

The effect of a modified C-terminal fragment of human growth hormone on  $\beta$ -adrenoceptor expression and function in human SK-N-MC neuroblastoma cells.  
*Adipogenesis and Obesity*, Abstract 409, 2000.

**HODGSON, W.C., JONES, A., ALEWOOD, P. & FRY, B.-G.**

Regional and species variation in the effectiveness of antivenom against the *in vitro* neurotoxicity of death adder venoms.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 32 (Oral 2-5), 2000.

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Comparison of effects of three  $\beta$ -adrenoceptor antagonists on cloned and endogenously expressed  $\beta$ -adrenoceptors.  
*Pharmacology and Toxicology*, **87 Supplement 11**, Abstract P17, 2000.

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Signalling differences between the mouse  $\beta_{3A}$  and  $\beta_{3B}$ -adrenoceptor expressed in CHO-K1 cells.  
*Pharmacology and Toxicology*, **87 Supplement 11**, Abstract P18, 2000.

**HUTCHINSON, D.S. & SUMMERS, R.J.**

Changes in ileal  $\beta$ -adrenoceptor mediated responses in  $\beta_3$ -adrenoceptor knockout mice.  
*Pharmacology and Toxicology*, **87 Supplement 11**, Abstract P19, 2000.

**HUTCHINSON, D.S., PAPIOANNOU, M., EVANS, B.A. & SUMMERS, R.J.**

Pharmacological characterization of the mouse  $\beta_{3A}$  and  $\beta_{3B}$ -adrenoceptor expressed in CHO-K1 cells.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 77 (Poster 1-2), 2000.

**JARROTT, B. & HUGHES, I.A.**

Tools to teach the clinical aspects of pharmacology.

*Pharmacology International*, **54**, 3-4, 2000.

**JONES, E.S., ROULSTON, C.L. & WIDDOP, R.E.**

Inhibition of the angiotensin AT<sub>2</sub> receptor following IV administration of PD123319 determined by [<sup>125</sup>I]CGP42112 autoradiography in the rat adrenal gland.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 143 (Poster 2-61), 2000.

**KALODIMOS, P.J. & VENTURA, S.**

Adrenoceptor mediated inhibition of field stimulation induced contractile responses of the rat prostate gland.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 143 (Poster 2-57), 2000.

**KELLY, B.L., MERCER, L.D., CHEUNG, N.S., GIARDINA, S.F., HORNE, M.F. & BEART, P.M.**

Neuronal death in a primary mesencephalic culture model of parkinsonism.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 148 (Poster 2.67), 2000.

**KEMP, B.K., BELTRAN, B., CLEMENTI, E. & MONCADA, S.**

Glycolytic ATP sustains energy levels in J774 cells following inhibition of mitochondrial complex IV by nitric oxide and cyanide.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 26 (Oral 3.17), 2000.

**KOMPA, A.R. & SUMMERS, R.J.**

Effect of short and long term myocardial infarction (MI) on  $\beta$ -adrenergic signalling in the rat.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 5 (Poster 1.26), 2000.

**KOMPA, A.R. & SUMMERS, R.J.**

Short and long term myocardial infarction (MI) and  $\beta$ -adrenoceptor ( $\beta$ -AR) responsiveness in rat.

*International Society for Heart Research, Australasian Section, XXXIII Annual Scientific Meeting*, 18 (Abstract 10), 2000.

**KRAEHENBUEHL, T., DAVIS E.A. & JARROTT, B.**

Natriuretic peptide receptor densities in SHR following short-term treatment with renin angiotensin system antagonists.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 146 (Poster 2-64), 2000.

**KRSTEW, E.V., CALLAWAY, J.K., WATKINS, D.J., BEART, P.M. & JARROTT, B.**

Restraint stress reduces neuronal and functional deficits after focal cerebral ischaemia in conscious adult rats.

*Proceedings of the Australian Neuroscience Society*, **11**, 167 (Poster 1-219), 2000.

**LAU, W.A.K., VENTURA, S. & PENNEFATHER, J.N.**

Calcitonin gene-related peptide (CGRP)-induced inhibition of neurogenic contractions of the rat prostate stroma: effects of testosterone treatment.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 82 (Poster 1-11), 2000.

**LAWRENCE, A.J., COWEN, M.S., CHEN, F. & JARROTT, B.**

Endogenous opioids: a role in reward processing in rat models of ethanol consumption?

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 24 (Symposium 7-4), 2000.

**LAWRENCE, A.J., SNELL, B.J., SHORT, J.L. & PARMENTIER, M.\***

Markers of purine utilisation in the brains of mice lacking the adenosine A<sub>2a</sub> receptor.  
*Autonomic Neuroscience: Basic and Clinical*, **82**, 81, 2000.

**LAWRENCE, A.J. & YAO, S.T.**

The locus coeruleus (LC) and modulation of autonomic function.  
*Federation of American Societies for Experimental Biology Journal*, **14**, A65 (Abstract 84.12), 2000.

**LI, X.C. & WIDDOP, R.E.**

AT<sub>2</sub> receptor stimulation enhances the vasodilator effect of an AT<sub>1</sub> receptor antagonist in conscious spontaneously hypertensive rats.  
*Proceedings of the High Blood Pressure Council of Australia, 22nd Annual Scientific Meeting*, Abstract 452, 2000.

**LODGE, D.J. & LAWRENCE, A.J.**

Differences in central CCK mRNA and receptor density in alcohol-preferring and non-preferring rats.  
*Proceedings of the Australian Neuroscience Society*, **11**, 35 (Oral 3-6), 2000.

**LODGE, D.J. & LAWRENCE, A.J.**

Extended localization of CCK-A receptors throughout the rat brain using a novel radioligand and comparative analysis of the central CCK system in fawn hooded and wistar kyoto rats.  
*Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 1925 (Abstract 719.22), 2000.

**MA, S. & PENNEFATHER, J.N.**

Functional characterisation of muscarinic receptors in the female mouse bladder and the effect of oestrogen.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 144 (Poster 2-60), 2000.

**MARDEL, K.W., MATTHEWS, B., HOLAN, G., JARROTT, B., PENNEFATHER, J.N. & LOWE, M.G.**

Neutralisation of snake venom and the HIV-1 toxin VPR by a novel antiviral dendimer.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 118 (Poster 2.8), 2000.

**MCLAREN, W.J., ANIKIJENKO, P., DELANEY, P.M. & KING, R.G.**

*In vivo* detection of ulcerative colitis in rats using non-invasive fibre optic confocal imaging (FOCI).  
*Microscopy 2000*, 2000.

**MCLEAN, K.J., KRSTEW, E., BORRELLI, E., DRAGO, J. & LAWRENCE, A.J.**

Adenosine transporter autoradiography in the brain stem of dopamine receptor knockout mice.  
*Proceedings of the Australian Neuroscience Society*, **11**, 182 (Poster 1-279), 2000.

**MERCER, L.D., LAWRENCE, A.J. & BEART, P.M.**

Effect of unilateral nodose ganglionectomy on cholecystikinin receptor (CCKR)-like immunoreactivity in rat brainstem.  
*Proceedings of the Australian Neuroscience Society*, **11**, 180 (Poster 1-271), 2000.

**MOLDRICH, R.X. & BEART, P.M.**

Group II metabotropic glutamate receptors and neurotoxicity in murine cortical striatal and cerebellar granule cells.  
*Proceedings of the Australian Neuroscience Society*, **11**, 174 (Poster 1-245), 2000.

**NEVZOROVA, J., BENGTTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

$\beta$ -adrenergic agonists increase glucose uptake via activation of  $\beta_2$ -adrenoceptor in rat L6 myotubes.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 147 (Poster 2.66), 2000.

**NICHOLSON, G.M., BIRINYI-STRACHAN, L.C., RASH, L.D., SZETO, T.H., KHALIFE, A., HODGSON, W.C. & KING, G.F.**

Novel  $\delta$ -attractotoxins : spider toxins that target the voltage-gated sodium channels.  
*Proceedings on the XIIIth congress of the International Society on Toxinology*, Abstract L45, 2000.

**O'SHEA, R.D., FODERA, M.V., APRICO, K. & BEART, P.M.**

Neuroprotective actions of the glutamate transport inhibitor (2S, 3S, 4R)-2-(Carboxycyclopropyl)glycine (L-CCG-III) in organotypic hippocampal cultures of the rat.  
*Society for Neuroscience, 30<sup>th</sup> Annual Meeting*, 1442 (Abstract 539.9), 2000.

**O'SHEA, R.D., FODERA, M.V., APRICO, K. & BEART, P.M.**

The glutamate transport inhibitor L-CCG-III is neuroprotective in organotypic hippocampal cultures of the rat.  
*Proceedings of the Australian Neuroscience Society*, **11**, 172 (Poster 1-239), 2000.

**OSMOND, D.T.D., GUDE, N.M., KING, R.G. & BRENNECKE, S.P.**

Method of treatment alters placental glucose transport and utilisation in gestational diabetes mellitus.  
*Proceedings of the Perinatal Society of Australia and New Zealand*, **4**, A40, 2000.

**PAPWORTH, G.D., VO, L.T., DELANEY, P.M. & KING, R.G.**

In vivo fibre optic confocal microscopy (FOCI) of the innervation and microvasculature of rat vas deferens post-vasectomy.  
*Sixth International Conference on Optics Within Life Sciences*, 2000.

**PARAVICINI, T., PENNEFATHER, J.N., LAU, W.A.K., MA, S. & PATAK, E.N.**

Muscarinic receptors mediating contraction of the urinary bladder from the female mouse.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 82 (Poster 1-12), 2000.

**PATAK, E.N., ZICCONI, S., LILLEY, A., PENNEFATHER, J.N. & STORY, M.E.**

Comparison of tachykinin uterotonic activity in myometrium obtained from non-pregnant and pregnant women.  
*Tachykinins 2000*, 89 (Poster P-42), 2000.

**PATAK, E.N., ZICCONI, S., LILLEY, A., PENNEFATHER, J.N. & STORY, M.E.**

Tachykinins acting at NK<sub>2</sub> receptors cause contraction of a human uterine tissue obtained from non-pregnant women.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 65 (Oral 14-3), 2000.

**PAULL, J.R.A., LI, X.C., SAMPEY, D.B. & WIDDOP, R.E.**

Regional haemodynamic effects following withdrawal of candesartan cilexetil in adult spontaneously hypertensive rats.  
*Proceedings of the High Blood Pressure Council of Australia, 22nd Annual Scientific Meeting*, Abstract 132, 2000.

**PAULL, J.R.A., LI, X.C., SAMPEY, D.B. & WIDDOP, R.E.**

Regional haemodynamic effects of chronic administration and withdrawal of candesartan cilexetil in adult spontaneously hypertensive rats.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 141 (Poster 2-57), 2000.

**PENNEFATHER, J.N.**

A most fortunate postdoc: the school of pharmacy at Brunswick square.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 5 (Symposium 2-1), 2000.

**PENNEFATHER, J.N., PATAK, E.N. & STORY, M.E.**

Tachykinins cause contraction of the uterus of the oestrogen-primed mouse by activation of NK<sub>1</sub> receptors.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 83 (Poster 1-14), 2000.

**PENNEFATHER, J.N., PATAK, E.N. & STORY, M.E.**

Tachykinins cause contraction of the uterus of the oestrogen-primed mouse by activation of NK<sub>1</sub> receptors.

*Tachykinins 2000*, 88 (Poster P-41), 2000.

**PETRATOS, S., HIRST, J.J., MENDIS, S., ANIKIJENKO, P. & WALKER, D.W.**

Immunohistochemical localisation of pregnane enzymes in the ovine perinatal cerebellar cortex.

*Proceedings of the Australian Neuroscience Society*, **11**, 105 (Oral 21-6), 2000.

**RAMASAMY, S., HODGSON, W.C. & VENTURA, S.**

Alterations in contractile mechanisms of prostates of streptozotocin-diabetic rats.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 147 (Poster 2.65), 2000.

**RASH, L.D. & HODGSON, W.C.**

Novel myotoxic activity of venom from a common Australian wolf spider (*Lycosa godeffroyi*).

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 146 (Poster 2-63), 2000.

**ROULSTON, C.L., LAWRENCE, A.J., JARROTT, B. & WIDDOP, R.E.**

[<sup>125</sup>I]CGP42112 binding in rat brainstem after nodose ganglionectomy.

*Proceedings of the Australian Neuroscience Society*, **11**, 33 (Oral 3-3), 2000.

**SCOTT, R.L., CHEUNG, N.S., NICHOLS, N., BEART, P.M., GURUSINGHE, A., FRASER, S. & CHEEMA, S.S.**

Gene expression analysis following nerve injury using conventional and restriction fragment differential display methodology.

*Proceedings of the Australian Neuroscience Society*, **11**, 114 (Poster 1-5), 2000.

**SHORT, J.L., DRAGO, J., LEDENT, C. & LAWRENCE, A.J.**

Dopamine receptor levels in adenosine A<sub>2a</sub> receptor knockout mice.

*Society for Neuroscience*, **30<sup>th</sup> Annual Meeting**, 1935 (Abstract 723.13), 2000.

**SHORT, J.L., DRAGO, J., PARMENTIER, M. & LAWRENCE, A.J.**

Dopamine receptor levels in adenosine A<sub>2a</sub> receptor knockout mice.

*Proceedings of the Australian Neuroscience Society*, **11**, 241 (Poster 2-224), 2000.

**SNELL, B.J., SHORT, J.L., PARMENTIER, M. & LAWRENCE, A.J.**

Adenosine transporter binding in the brain of adenosine A<sub>2a</sub>-receptor knockout mice.

*Proceedings of the Australian Neuroscience Society*, **11**, 254 (Poster 2-276), 2000.

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

Acute and chronic restraint stress : effects on [<sup>125</sup>I]-galanin binding in normotensive and hypertensive rat brain.

*Proceedings of the Australian Neuroscience Society*, **11**, 251 (Poster 2-264), 2000.

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

The effect of restraint stress on the expression of prepro-NPY mRNA in normotensive and hypertensive rat brain.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 83 (Poster 1-41), 2000.

**TAN, Y.-Y., DAWSON, N.F., KOMPA, A.R., CLAASZ, A., WADE, J.D., TREGEAR, G.W. & SUMMERS, R.J.**

Investigation of the sheep leydig cell insulin-like peptide (INSL3) and analogues for relaxin-like activity in rat atria.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 30 (Oral 2-2), 2000.

**TAN, Y.-Y., GIBBS, M.E., TREGEAR, G.W. & SUMMERS, R.J.**

Possible role for relaxin in memory formation.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 38 (Oral 5.14), 2000.

**VENTURA, S.**

Non-opioid central nervous system mechanisms in the haemodynamic responses to hypovolaemia.

*Proceedings of the Australian Physiological and Pharmacological Society*, **31**, 124P, 2000.

**VENTURA, S., LAU, W.A.K., BULJUBASICH, S. & PENNEFATHER, J.N.**

Calcitonin gene-related peptide (CGRP) inhibits contractions of the prostatic stroma of the rat but not the guinea-pig.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 65 (Oral 14-4), 2000.

**VENTURA, S., PRESTON, A. & PENNEFATHER, J.N.**

Adenosine inhibits field stimulation induced contractions of the rat prostate by action at a prejunctional A<sub>1</sub> adenosine receptor.

*Autonomic Neuroscience: Basic and Clinical*, **82**, 82, 2000.

**VENTURA, S., PRESTON, A. & PENNEFATHER, J.N.**

Purinergic neuromodulation of smooth muscle contractility in the rat prostate gland.

*Drug Development Research*, **50**, 79 (Abstract 124), 2000.

**VO, L.T., ANIKIJENKO, P., DELANEY, P.M. & KING, R.G.**

Estimation of burn depth by fibre optic confocal microscopy (FOCI) – evidence that cool water treatment limits progressive thermal damage.

*Twelfth International Conference on Confocal Microscopy, Thirteenth International on 3D image processing in Microscopy SLM-25, Twentyfifth Meeting of the Society for Laser Microscopy*, (Abstract MpB10), 2000.

**WALTERS, P.E., JONES, E.S. & WIDDOP, R.E.**

Ang (1-7) facilitates the depressor effect of candesartan in conscious shr and wky rats.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 143 (Poster 2-58), 2000.

**WICKRAMARATNA, J.C., FRY, B.G., JONES, A., ALEWOOD, P. & HODGSON, W.C.**

*In vitro* neurotoxicity of three novel postsynaptic neurotoxins from death adder venoms.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **8**, 34 (Oral 3.47), 2000.

**WICKRAMARATNA, J.C., HODGSON, W.C., JONES, A., ALEWOOD, P. & FRY, B.G.**

Regional and species variation in the effectiveness of antivenom against the *in vitro* neurotoxicity of death adder venoms.

*Proceedings on the XIIIth congress of the International Society on Toxinology*, Abstract P209, 2000.

**YAO, S.T., BARDEN, J.A., BENNETT, M.R. & LAWRENCE, A.J.**

A co-localisation study of P2X<sub>1-6</sub> and tyrosine hydroxylase in the brainstem of the rat.

*Proceedings of the Australian Neuroscience Society*, **11**, 182 (Poster 1-277), 2000.

**ZWART, A.S., DAVIS, E.A. & WIDDOP, R.E.**

Enhancement of the AT<sub>2</sub> receptor antagonist, PD 123319, of angiotensin II-mediated vasoconstriction in the rat uterine vasculature *in vivo*.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **7**, 31 (Oral 2-3), 2000.

## **PUBLICATIONS 2001**

### **BOOK CHAPTERS 2001**

**GIARDINA, S.F., CARROLL, F.Y., MOLDRICH, R.X., FINKELSTEIN, D.I., HORNE, M.K., LAWRENCE, A.J., CHEUNG, N.S. & BEART, P.M.**

Kainate receptors, cellular signalling and excitotoxic neuronal death: new pharmacological evidence for the functional involvement of low-affinity and metabotropic kainate receptors.

In "*Excitatory Amino Acids : Ten Years Later*"

Eds. L.Turski, D.D.Schoepp & E.A.Cavalheiro, IOS Press, pp.161-172, 2001.

### **PAPERS AND REVIEW ARTICLES 2001**

**ANIKIJENKO, P., VO, L.T., MURR, E.R., CARRASCO, J., MCLAREN, W.J., CHEN, Q., THOMAS, S.G., DELANEY, P.M. & KING, R.G.**

*In vivo* detection of small subsurface melanomas in athymic mice using non-invasive fibre optic confocal imaging.

*Journal of Investigative Dermatology*, **117**, 1442-1448, 2001. (**Impact Factor 4.238**)

**APRICÓ, K., BEART, P.M., LAWRENCE, A.J., CRAWFORD, D. & O'SHEA, R.D.**

[<sup>3</sup>H]-(2S, 4R)-4-methylglutamate: a novel ligand for the characterisation of glutamate transporters.

*Journal of Neurochemistry*, **77**, 1218-1225, 2001. (**Impact Factor 4.824**)

**BENTLEY, K.R. & JARROTT, B.**

Pharmacological characterisation of bradykinin B<sub>1</sub> and B<sub>2</sub> receptors in IMR-90 and INT-407 human cell lines using a microphysiometer.

*Clinical and Experimental Pharmacology and Physiology*, **28**, 402-408, 2001. (**Impact Factor 1.672**)

**BROWN, K.J. & SUMMERS, R.J.**

β<sub>1</sub> and β<sub>3</sub> -adrenoceptor mediated smooth muscle relaxation in hypothyroid rat ileum.

*European Journal of Pharmacology*, **415**, 257-263, 2001. (**Impact Factor 2.432**)

**CALLAWAY, J.K., BEART, P.M., JARROTT, B. & GIARDINA, S.F.**

Incorporation of sodium channel blocking and free radical scavenging activities into a single drug, AM-36, results in profound inhibition of neuronal apoptosis.

*British Journal of Pharmacology*, **132**, 1691-1698, 2001. (**Impact Factor 3.325**)

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Restriction of prenatal gas exchange impairs memory consolidation in the chick.

*Developmental Brain Research*, **132**, 141-150, 2001. (**Impact Factor 1.854**)

**CARROLL, F.Y., STOLLE, A., BEART, P.M., VOERSTE, A., BRABET, I., MAULER, F., JOLY, C., ANTONICEK, H., BOCKAERT, J., MULLER, T., PIN, J.P. & PREZEAU, L.**

BAY36-7620: a potent non-competitive mGlu1 receptor antagonist with inverse agonist activity.

*Molecular Pharmacology*, **59**, 965-973, 2001. (**Impact Factor 5.080**)

**CHURCH, J.E. & HODGSON, W.C.**

- Stonefish (*Synanceia* spp.) antivenom neutralises the invitro and in vivo cardiovascular activity of soldierfish (*Gymnapistes marmoratus*) venom.  
*Toxicol*, **39**, 319-324, 2001. **(Impact Factor 1.862)**
- COWEN, M.S. & LAWRENCE, A.J.**  
Alterations in central preproenkephalin mRNA expression after chronic free-choice ethanol consumption by Fawn-hooded rats.  
*Alcoholism: Clinical and Experimental Research*, **25**, 1126-1133, 2001. **(Impact Factor 2.508)**
- EVANS, B.A., BROWN, K.J. & SUMMERS, R.J.**  
 $\beta$ -adrenoceptors and their variants.  
*Analytical Pharmacology*, **2**, 62-78, 2001. **(No Impact Factor)**
- EVANS, R.G., VENTURA, S., DAMPNEY, R.A.L. & LUDBROOK, J.**  
Neural mechanisms in the cardiovascular responses to acute central hypovolaemia.  
*Clinical and Experimental Pharmacology and Physiology*, **28**, 479-487, 2001. **(Impact Factor 1.672)**
- FRY, B.G., WICKRAMARATNA, J.C., JONES, A., ALEWOOD, P.F. & HODGSON, W.C.**  
Species and regional variations in the effectiveness of antivenom against the *in vitro* neurotoxicity of death adder (*Acanthopis*) venoms.  
*Toxicology and Applied Pharmacology*, **175**, 140-148, 2001. **(Impact Factor 2.618)**
- GIARDINA, S.F. & BEART, P.M.**  
Excitotoxic profiles of novel, low-affinity kainate receptor agonists in primary cultures of murine cerebellar granule cells.  
*Neuropharmacology*, **41**, 421-432, 2001. **(Impact Factor 3.734)**
- GIBBS, M.E. & SUMMERS, R.J.**  
Enhancement of memory consolidation in chicks by  $\beta_3$ -adrenoceptor agonists.  
*European Journal of Pharmacology*, **413**, 235-240, 2001. **(Impact Factor 2.432)**
- GIBBS, M.E. & SUMMERS, R.J.**  
Stimulation of  $\alpha_1$ -adrenoceptors inhibits memory consolidation in the chick.  
*European Journal of Neuroscience*, **14**, 1369-1376, 2001. **(Impact Factor 3.820)**
- GUDE, N.M., AL-GHAFRA, A., KING, R.G. & BRENNECKE, S.P.**  
Pre-term labour is associated with increased adrenomedullin concentration in human fetal membranes but not in placenta.  
*Proceedings of the 53<sup>rd</sup> Annual Congress of Japan Society of Obstetrics and Gynecology*, 147-152, 2001.  
**(No Impact Factor)**
- HEFFERNAN, M., SUMMERS, R.J., THORBURN, A.W., OGRU, E., GIANELLO, R., JIANG, W.-J. & NG, F.M.**  
The effects of human GH and its lipolytic fragment (AOD9604) on lipid metabolism following chronic treatment in obese mice and  $\beta_3$ -AR knock-out mice.  
*Endocrinology*, **142**, 5182-5189, 2001. **(Impact Factor 5.151)**
- HEFFERNAN, M., THORBURN, A., FAM, B., SUMMERS, R.J., CONWAY-CAMPBELL, B., WATERS, M.J. & NG, F.M.**

Increase of fat oxidation and weight loss in obese mice caused by chronic treatment with human growth hormone or a modified C-terminal fragment.

*International Journal of Obesity*, **25**, 1442-1449, 2001. (Impact Factor 3.459)

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

$\beta_1$ -adrenoceptors compensate for  $\beta_3$ -adrenoceptors in ileum from  $\beta_3$ -adrenoceptor knockout mice.

*British Journal of Pharmacology*, **132**, 433-442, 2001. (Impact Factor 3.325)

**KALODIMOS, P.J. & VENTURA, S.**

$\beta_2$ -adrenoceptor-mediated inhibition of field stimulation induced contractile responses of the smooth muscle of the rat prostate gland.

*European Journal of Pharmacology*, **413**, 81-89, 2001. (Impact Factor 2.432)

**KRSTEW, E.V., JARROTT, B. & CALLAWAY, J.K.**

Neuroprotective effects of mild hyperthermia prior to focal ischaemia in conscious rats.

*NeuroReport*, **12**, 1629-1633, 2001. (Impact Factor 2.351)

**LAPPAS, M., MUNNS, M., KING R.G. & RICE, G.E.**

Antisense oligonucleotide inhibition of type II Phospholipase A<sub>2</sub> expression release and activity in vitro.

*Placenta*, **22**, 418-424, 2001. (Impact Factor 2.683)

**LIDDELL, M., HODGSON, W.C. & LAWSON, C.**

Introduction to medical studies – a semester-long residential program for international medical studies.

Association for Health Professional Education (ANZAME), Annual Conference, 101-105, 2001. (No Impact Factor)

**LODGE, D.J. & LAWRENCE, A.J.**

Comparative analysis of the central CCK system in fawn hooded and Wistar Kyoto rats: Extended localisation of CCK-A receptors throughout the brain using a novel radioligand.

*Regulatory Peptides*, **99**, 191-201, 2001. (Impact Factor 2.531)

**MATHIEU, M.N., WADE, J.D., CATIMEL, B., BOND, C., NICE, E.C., SUMMERS, R.J., OTVOS, L.JNR., & TREGGAR, G.W.**

Synthesis, conformational studies and biological activity of N<sup>α</sup>-mono-biotinylated rat relaxin.

*Journal of Peptide Research*, **57**, 374-382, 2001. (Impact Factor 1.720)

**MCLAREN, W.J., ANIKIJENKO, P., BARKLA, D.H., DELANEY, P.M. & KING, R.G.**

*In vivo* detection of experimental ulcerative colitis in rats using fibre optic confocal imaging (FOCI).

*Digestive Diseases and Sciences*, **46**, 2263-2276, 2001. (Impact Factor 1.427)

**MOLDRICH, R.X., BEART, P.M., JANE, D.E., CHAPMAN, A.G. & MELDRUM, B.S.**

Anticonvulsant activity of 3,4-dicarboxyphenylglycines in DBA/2 mice.

*Neuropharmacology*, **40**, 732-735, 2001. (Impact Factor 3.734)

**MOLDRICH, R.X., GIARDINA, S.F. & BEART, P.M.**

Group II mGlu receptor agonists fail to protect against various neurotoxic insults induced in murine cortical, striatal and cerebellar granular pure neuronal cultures.

*Neuropharmacology*, **41**, 19-31, 2001. (Impact Factor 3.734)

**MOLDRICH, R.X., JEFFREY, M., TALEBI, A., BEART, P.M., CHAPMAN, A.G. & MELDRUM, B.S.**

Anti-epileptic activity of group II metabotropic glutamate receptor agonists (-)-2-oxa-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate (LY379268) and (-)-2-thia-4-aminobicyclo[3.1.0]hexane-4,6-dicarboxylate (LY389795).

*Neuropharmacology*, **41**, 8-18, 2001. (Impact Factor 3.734)

**MOLDRICH, R.X., TALEBI, A., BEART, P.M., CHAPMAN, A.G. & MELDRUM, B.S.**

The mGlu<sub>2/3</sub> agonist, 2R, 4R-4-aminopyrrolidine-2,4-dicarboxylate, is anti- and proconvulsant in DBA/2 mice.

*Neuroscience Letters*, **299**, 125-129, 2001. (Impact Factor 2.019)

**OSMOND, D.T.D., KING, R.G., BRENNECKE, S.P. & GUDE, N.M.**

Placental glucose transport and utilisation is altered at term in insulin-treated, gestational-diabetic patients.

*Diabetologia*, **44**, 1133-1139, 2001. (Impact Factor 5.583)

**PAULL, J.R.A., LI, X.C., SAMPEY, D.B. & WIDDOP, R.E.**

Pharmacodynamic contribution to the vasodilator effect of chronic AT<sub>1</sub> receptor blockade in spontaneously hypertensive rats.

*Hypertension*, **37**, 91-98, 2001. (Impact Factor 5.342)

**PAULL, J.R.A. & WIDDOP, R.E.**

Persistent cardiovascular effects of chronic renin-angiotensin system inhibition following withdrawal in adult SHR.

*Journal of Hypertension*, **19**, 1393-1402, 2001. (Impact Factor 4.871)

**RICKARD, N.S., KOWADLO, N. & GIBBS, M.E.**

Effect of the *Ginkgo biloba* extract, EGb 761, on memory formation in day-old chicks.

*Pharmacology, Biochemistry and Behaviour*, **69**, 351-358, 2001. (Impact Factor 2.527)

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

The effect of acute and chronic restraint on the central expression of prepro-neuropeptide Y mRNA in normotensive and hypertensive rats.

*Journal of Neuroendocrinology*, **13**, 608-617, 2001. (Impact Factor 2.920)

**VO, L.T., ANIKIJENKO, P., MCLAREN, W.J., DELANEY, P.M., BARKLA, D.H. & KING, R.G.**

Autofluorescence of skin burns detected by fibre optic confocal imaging (FOCI): evidence that cool water treatment limits progressive thermal damage in anaesthetised hairless mice.

*Journal of Trauma-Injury Infection and Critical Care*, **51**, 98-104, 2001. (Impact Factor 1.653)

**VO, L.T., CARRASCO, J.C. DELANEY, P.M., CHEN, Q. & KING, R.G.**

*In vivo* detection of small sub-surface human melanomas in mice.

*G.I.T. Imaging and Microscopy*, **3** (3), 20-22, 2001 (No Impact Factor)

**WICKRAMARATNA, J.C. & HODGSON, W.C.**

A pharmacological examination of venoms from three species of death adder (*Acanthopis antarcticus*, *Acanthopis praelongus* and *Acanthopis pyrrhus*).

*Toxicon*, **39**, 209-216, 2001. (Impact Factor 1.862)

**YAO, S.T., BARDEN, J.A. & LAWRENCE, A.J.**

On the immunohistochemical distribution of ionotropic P2X receptors in the nucleus tractus solitarius of the rat.

*Neuroscience*, **108**, 673-685, 2001. (Impact Factor 3.456)

**ABSTRACTS      2001**

**ANDREWS, K.L., FAVALORO, J.L. & MCPHERSON, G.A.**

Novel imidazolines which inhibit K<sup>+</sup>-induced vasorelaxation in rat cerebral middle cerebral artery. *Seventh International Symposium on Resistance Arteries*, 83 (Poster 35), 2001.

**ANDREWS, K.L. & MCPHERSON, G.A.**

Pharmacological actions of novel disubstituted imidazolines. *Pharmacology Vancouver 2001*, 96 (Poster PO-204), 2001.

**APRICÓ, K., BEART, P.M. & O'SHEA, R.D.**

[<sup>3</sup>H]-(2S,4R)-4-methylglutamate: a new ligand for glial glutamate transporters? *Proceedings of the Australian Neuroscience Society*, **12**, 38 (Oral 2-8), 2001.

**APRICÓ, K., BEART, P.M. & O'SHEA, R.D.**

[<sup>3</sup>H]-(2S,4R)-4-methylglutamate as a radioligand for astrocytic glutamate transporters in membrane homogenates and brain slices. *Journal of Neurochemistry*, **78 Supplement 1**, 35 (Abstract AP14-04), 2001.

**BEART, P.M.**

Excitotoxicity : pharmacological and molecular strategies relevant to apoptosis and neurodegenerative conditions.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 3 (Symposium 1-2), 2001.

**BOND, C.P., TAN, Y.Y., TREGEAR, G. & SUMMERS, R.J.**

Determination of structural features for interaction with the relaxin receptor.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 74 (Poster 1-23), 2001.

**BROXTON, N.M., PAPIOANNOU, M., EVANS, B.A. & SUMMERS, R.J.**

An avian homologue of the human  $\beta_3$ -adrenoceptor that demonstrates unique pharmacology.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 78 (Poster 1-32), 2001.

**CALLAWAY, J.K. & JARROTT, B.**

AM-36 inhibits ischaemia-induced free radical generation in the striatum of conscious rats.

*Proceedings of the Australian Neuroscience Society*, **12**, 124 (Poster 1-135), 2001.

**CALLAWAY, J.K. & JARROTT, B.**

AM-36, a novel neuroprotective drug, inhibits both ischaemia-induced increases in reactive oxygen species and dopamine release in the striatum of conscious rats.

*Society for Neuroscience, 31st Annual Meeting*, Abstract 762.8, 2001.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Effects of pre-hatch hypoxia on plasma catecholamine levels and the involvement of noradrenaline on memory formation.

*International Union of Physiological Society*, 2001.

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Involvement of the central noradrenergic system in memory impairment in prenatally compromised chicks.

Department of Pharmacology, Monash University

5/10/2006

Page 22 of 71

*International Union of Physiological Society, Satellite Meeting on Neural Mechanisms of Learning and Memory, 2001.*

**CAMM, E.J., GIBBS, M.E. & HARDING, R.**

Prenatal hypoxia impairs postnatal brain function in the chick.

*Proceedings of the Perinatal Society of Australia and New Zealand, 5th Annual Congress, 261 (Abstract P237), 2001.*

**CASTILLO-MELENDEZ, M. & SUMMERS, R.J.**

Differential distribution of Fos expression in rat brain following central administration of specific  $\beta$ -adrenoceptor agonists.

*Proceedings of the Australian Neuroscience Society, 12, 95 (Poster 1-77), 2001.*

**CHAN, D., VO, L.T. & KING, R.G.**

Effects of acute exposure of peppermint oil and valerian on rat liver and cultured human liver cells detected by fibre optic confocal imaging (FOCI).

*Third Asia-Pacific International Symposium on Confocal Microscopy and Related Technologies, 6, 2001.*

**CHEN, F. & LAWRENCE, A.J.**

The effect of serotonin modulating drugs on ethanol consumption in Fawn-Hooded rats.

*Proceedings of the Australian Neuroscience Society, 12, 232 (Poster 2-351), 2001.*

**CHETTY, N., FRY, B.G. & HODGSON, W.C.**

The pharmacological examination of sea snake venoms.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 9, 86 (Poster 1-47), 2001.*

**D'AMORE, A., JONES, E.S., WIDDOP, R.E. & BLACK, M.J.**

Effect of AT<sub>2</sub> receptor stimulation on capillarization in hypertensive hearts.

*Proceedings of the High Blood Pressure Research Council of Australia, 23rd Annual Scientific Meeting, Poster 32, 2001.*

**FAVALORO, J.L., PIEKARASKA, A., KEILY, S.G. & MCPHERSON, G.A.**

The functional and electrophysiological effects of tetraphenylboron at vascular K<sup>+</sup> channels.

*Seventh World Congress for Microcirculation, Poster 2-16, 2001.*

**FONG, A.Y. & LAWRENCE, A.J.**

Contrasting effects of adenosine-5'-triphosphate, L-glutamate and L-arginine in the nucleus tractus solitarius of the anaesthetised rat.

*Proceedings of the Australian Neuroscience Society, 12, 103 (Poster 1-94), 2001.*

**GIARDINA, S.F. & BEART, P.M.**

Excitotoxic profiles of putative low-affinity kainate receptor agonists in cultured cerebellar granule cells.

*Proceedings of the Australian Neuroscience Society, 12, 78 (Poster 1-43), 2001.*

**GIBBS, M.E.**

Multiple roles for noradrenaline in memory consolidation.

*International Union of Physiological Society, Satellite Meeting on Neural Mechanisms of Learning and Memory, 2001.*

**GIBBS, M.E. & SUMMERS, R.J.**

Interaction between  $\beta$ -adrenoceptors and central glucose metabolism relationship with memory formation in the chick.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 60 (Oral 8-4), 2001.

**GIBBS, M.E. & SUMMERS, R.J.**

Roles for  $\beta$ - and  $\alpha_2$ -adrenoceptors in memory formation in the chick.

*Proceedings of the Australian Neuroscience Society*, **12**, 97 (Poster 1-81), 2001.

**GIBBS, M.E. & SUMMERS, R.J.**

Role of  $\beta$ -adrenoceptors in memory formation:  $\beta_3$ -adrenoceptors and central glucose metabolism.

*International Union of Physiological Society*, 2001.

**GUDE, N.M., ROGERS, S., BEST, J.D., OSMOND, D.T.D. & KING, R.G.**

Reduced glucose uptake and expression of a novel glucose transporter in placenta from gestational diabetic pregnancies.

*Placenta*, **22**, A56 (Abstract P189), 2001.

**HANNAN, R.E., DAVIS, E.A. & WIDDOP, R.E.**

The role of nitric oxide in mediating angiotensin II AT<sub>2</sub> receptor effects in the rat uterine artery.

*Seventh International Symposium on Resistance Arteries*, 106 (Poster 47), 2001.

**HUTCHINSON, D.S., PAPIOANNOU, M., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Different signalling properties of the mouse  $\beta_{3A}$  and its splice variant the  $\beta_{3B}$  -adrenoceptor expressed in CHO-K<sub>1</sub> cells.

*Pharmacology Vancouver 2001*, 70 (Oral OP-64), 2001.

**JARROTT, B., CALLAWAY, J.K. & BEART, P.M.**

Hybrid molecules as a strategy for minimising neurodegeneration in the central nervous system.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 5 (Symposium 1-5), 2001.

**KEMP, B.K., FAVALORO, J.L. & MCPHERSON, G.A.**

The nitroxyl anion (NO<sup>-</sup>) mediates relaxation of small resistance arteries in part via the activation of K<sup>+</sup> channels.

*Seventh International Symposium on Resistance Arteries*, 68 (Poster 26), 2001.

**KEMP, B.K., MCPHERSON, G.A. & FAVALORO, J.L.**

The nitroxyl anion (NO<sup>-</sup>) mediates relaxation of small resistance arteries in part via the activation of K<sup>+</sup> channels.

*Proceedings of the High Blood Pressure Research Council of Australia, 23rd Annual Scientific Meeting*, Poster 87, 2001.

**KING, R.G., MURR, E.R., CARRASCO, J., ANIKIJENKO, P., CHEN, Q., DELANEY, P.M., THOMAS, S.G. & VO, L.T.**

Use of confocal microscopy and fluorescent antibodies for *in vivo* detection of small subsurface human melanomas in mice.

*Focus on Microscopy*, Abstract 55, 2001.

**KOMPA, A.R. & SUMMERS, R.J.**

Short and long term myocardial infarction (MI) and  $\beta$ -adrenoceptor ( $\beta$ -AR) signalling in the rat heart.  
*International Society for Heart Research, Models in Cardiovascular Research*, 32 (Abstract B8), 2001.

**KOMPA, A.R., SUMMERS, R.J. & WIDDOP, R.E.**

Angiotensin II (AII) responses and p44/42 MAPK (ERK 1/2) in rat heart.  
*International Society for Heart Research, Models in Cardiovascular Research*, 26 (Abstract A16), 2001.

**KOMPA, A.R. & SUMMERS, R.J.**

$G_i\alpha_2$  expression correlates with ERK activation but not  $\beta$ -adrenoceptor ( $\beta$ -AR) responsiveness in a rat model of myocardial infarction (MI).  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 107 (Poster 2-39), 2001.

**KRSTEW, E.V., BARDEN, J. & LAWRENCE, A.J.**

The distribution of P2Y<sub>1</sub>-receptor immunoreactivity in the adult rat medulla oblongata.  
*Proceedings of the Australian Neuroscience Society*, **12**, 78 (Poster 1-44), 2001.

**LI, X.C. & WIDDOP, R.E.**

AT<sub>2</sub> receptor stimulation enhances the vasodilator effect of an AT<sub>1</sub> receptor antagonist in conscious spontaneously hypertensive rats.  
*Clinical and Experimental Pharmacology and Physiology*, **28 (Supplement)**, A45, 2001.

**LODGE, D.J. & LAWRENCE, A.J.**

Social isolation and anxiolytic drugs on ethanol consumption and central CCK/dopamine receptors in Fawn-Hooded rats.  
*Proceedings of the Australian Neuroscience Society*, **12**, 231 (Poster 2-350), 2001.

**LODGE, D.J. & LAWRENCE, A.J.**

The effect of social isolation and anxiolytic drugs on ethanol consumption and central CCK/dopamine systems in Fawn-Hooded rats.  
*Society for Neuroscience, 31st Annual Meeting*, Abstract 981.3, 2001.

**LOIACONO, R.E. & THOMPSON, L.H.**

Interaction of  $\beta$ -amyloid peptides with the  $\alpha_7$  nicotinic receptor: autoradiography of <sup>125</sup>I- $\alpha$ -bungarotoxin and chronic *in vivo* treatment with amyloid  $\beta_{(1-40)}$ .  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 49 (Oral 5-6), 2001.

**MCDUGALL, S.J., WIDDOP, R.E. & LAWRENCE, A.J.**

Stressor dependent cardiovascular effects in sprague dawley rats.  
*Proceedings of the Australian Neuroscience Society*, **12**, 102 (Poster 1-92), 2001.

**MCPHERSON, G.A., KEMP, B. & FAVALORO, J.**

Regulators of K<sub>ATP</sub> channels.  
*Seventh World Congress for Microcirculation*, Symposium 24-6, 2001.

**MERCER, L.D., KELLY, B.L., CHEUNG, N.S., GIARDINA, S.F., HORNE, M.K. & BEART, P.M.**

Apoptotic neuronal death in a primary mesencephalic culture model of Parkinsonism.  
*Journal of Neurochemistry*, **78 Supplement 1**, 129 (Abstract BP02-07), 2001.

**MERCER, L.D., KELLY, B.L., CHEUNG, N.S., GIARDINA, S.F., HORNE, M.K. & BEART, P.M.**

Apoptosis and oxidative stress in primary mesencephalic cultures.  
*Society for Neuroscience, 31st Annual Meeting*, Abstract 653.20, 2001.

**MOLDRICH, R.X. & BEART, P.M.**

The mGlu<sub>2/3</sub> agonist, 2R, 4R-4-aminopyrrolidine-2,4-dicarboxylate (2R, 4R-APDC) and injury in murine pure neuronal cultures.  
*Journal of Neurochemistry, 78 Supplement 1*, 190 (Abstract BP23-10), 2001.

**MOLDRICH, R.X., BEART, P.M. & MELDRUM, B.S.**

Anti-epileptic activity of group II metabotropic glutamate receptor (mGlu<sub>2/3</sub>) agonists.  
*Proceedings of the Australian Neuroscience Society, 12*, 38 (Oral 2-7), 2001.

**NEVZOROVA, J., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Stimulation of glucose transport by  $\beta$ -adrenoceptor agonists in L6 muscle cells.  
*Eleventh International Conference on Second Messengers and Phosphoproteins*, 6-3 (Abstract 105), 2001.

**O'SHEA, R.D.**

Assessing life and death in organotypic cultures of brain tissue.  
*Proceedings of the Australian Neuroscience Society, 12*, 175 (Poster 2-238), 2001.

**O'SHEA, R.D.**

Roles and regulation of brain glutamate transporters in normal and pathological brain function.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 9*, 19 (Symposium 7-4), 2001.

**O'SHEA, R.D., MERCER, L.D. & BEART, P.M.**

Monitoring cell viability in organotypic slice cultures.  
*Society for Neuroscience, 31st Annual Meeting*, Abstract 94.14, 2001.

**OSMOND, D.T.D., GUDE, N.M., KING, R.G. & BRENNECKE, S.P.**

Effect of fetal macrosomia on glucose transport and utilisation in human placentae from gestational diabetic pregnancy.  
*Proceedings of the Perinatal Society of Australia and New Zealand, 5th Annual Congress*, 261 (Abstract P176), 2001.

**PARISH, C.L., FINKELSTEIN, D.I., HORNE, M.K., MERCER, L.D., KELLY, B.L., O'SHEA, R.D. & BEART, P.M.**

Establishment of a ventral mesencephalic slice culture for the study of nigral dopaminergic neurones.  
*Proceedings of the Australian Neuroscience Society, 12*, 176 (Poster 2-239), 2001.

**PAULL, J.R.A., LI, X.C., SAMPEY, D.B. & WIDDOP, R.E.**

Regional haemodynamic effects following withdrawal of candesartan cilexetil in adult spontaneously hypertensive rats.  
*Clinical and Experimental Pharmacology and Physiology, 28 (Supplement)*, A45 - A46, 2001.

**POPP, B.D., EVANS, B.A., HUTCHINSON, D.S. & SUMMERS, R.J.**

Enantiomeric ratios for a series of  $\beta$ -adrenoceptor agonists and antagonists at cloned human and mouse  $\beta_3$ -adrenoceptors.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, 9*, 78 (Poster 1-31), 2001.

**RASH, L.D. & HODGSON, W.C.**

A comparison of the protein content and enzymatic activity of venom from the male and female wolf spider (*Lycosa* spp.).  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 106 (Poster 2-38), 2001.

**ROULSTON, C.L., WIDDOP, R.E. & JARROTT B.**

Minocycline treatment attenuates non-ang II [<sup>125</sup>I]CGP42112 binding in brainstem following nondose ganglionectomy.  
*Proceedings of the Australian Neuroscience Society*, **12**, 140 (Poster 1-168), 2001.

**SCOTT, R.L., CHEUNG, N.S., BEART, P.M. & CHEEMA, S.S.**

Proteomic analysis in the SOD-1 G93A mouse model of human amyotrophic lateral sclerosis.  
*Journal of Neurochemistry*, **78 Supplement 1**, 130 (Abstract BP02-12), 2001.

**SHORT, J.L., DRAGO, J., LEDENT, C. & LAWRENCE, A.J.**

Development and preliminary characterisation of a dopamine D<sub>1</sub> adenosine A<sub>2a</sub> receptor knockout mice.  
*Proceedings of the Australian Neuroscience Society*, **12**, 74 (Poster 1-35), 2001.

**SUMMERS, R.J., HUTCHINSON, D.S., PAPAIOANNOU, M., BENGTSSON, T. & EVANS, B.A.**

Different signalling properties of the mouseβ<sub>3A</sub> – and its splice variant theβ<sub>3B</sub>-adrenoceptor expressed in CHO-K1 cells.  
*Eleventh International Conference on Second Messengers and Phosphoproteins*, 6-3 (Abstract 453), 2001.

**SUMMERS, R.J., NEVZOROVA, J., BENGTSSON, T. & EVANS, B.A.**

Stimulation of glucose transport by β-adrenoceptor agonists in L6 muscle cells.  
*Pharmacology Vancouver 2001*, 56 (Oral OP-08), 2001.

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

Central prepro-NPY mRNA expression following exposure to restraint stress in the normotensive and hypertensive rat.  
*Sixth International Neuropeptide Y Conference*, Oral O.39, 2001.

**SWEERTS, B.W., JARROTT, B. & LAWRENCE, A.J.**

Opioidergic modulation of the neural response to acute restraint.  
*Proceedings of the Australian Neuroscience Society*, **12**, 236 (Poster 2-360), 2001.

**WALTERS, P.E., JONES, E.S. & WIDDOP, R.E.**

Ang (1-7) acts as a vasodepressor agent via the AT<sub>2</sub> receptor.  
*Proceedings of the High Blood Pressure Research Council of Australia, 23rd Annual Scientific Meeting*, Poster 102, 2001.

**WELUNGODA, I., DAVIS, E.A. & KEMP, B.K.**

Nitric oxide modulates the response to C-type natriuretic peptide in rat isolated aortae and intralobar renal arteries.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 66 (Poster 1-7), 2001.

**WICKRAMARATNA, J.C., FRY, B.G., LOIACONO, R.E., AGUILAR, M.I., ALEWOOD, P.F. & HODGSON, W.C.**

Pharmacology of novel components from death adder venoms.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 50 (Oral 5-8), 2001.

**WIDDOP, R.E.**

Functional roles of angiotensin receptor subtypes in cardiovascular disease.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 10 (Symposium 4-2), 2001.

**YAO, S.T., THOMAS, T., SPYER, K.M. & LAWRENCE, A.J.**

The effects of ATP on the ongoing activity of locus coeruleus neurons receiving inputs from the rostral ventrolateral medulla in the rat.

*Proceedings of the Australian Neuroscience Society*, **12**, 103 (Poster 1-93), 2001.

**ZAGAMI, C.J., BEART, P.M., CHEEMA, S.S., LOPES, E.C. & O'SHEA, R.D.**

Development of an *in vitro* model of amyotrophic lateral sclerosis.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **9**, 101 (Poster 2-28), 2001.

**ZULLI, A., BUXTON, B.F., WIDDOP, R.E. & BLACK, M.J.**

The effect of a high methionine and cholesterol diet on endothelial function and on atherogenesis.

*Proceedings of the High Blood Pressure Research Council of Australia, 23rd Annual Scientific Meeting*, Poster 31, 2001.

## PUBLICATIONS 2002

### CHAPTERS IN BOOKS 2002

#### **GUNDLACH, A.L. & O'SHEA, R.D.**

Quantitative analysis of *in situ* hybridization histochemistry.

In "In situ hybridization protocols for the brain."

Eds. R.J.Bradley, R.A.Harris & P.Jenner,

Academic Press, Chapter 9, pp. 135-170, 2002.

ISBN 0-12-366847-6.

### PAPERS 2002

#### **BATHGATE, R.A.D., SAMUEL, C.S., BURAZIN, C.D., LAYFIELD, S., CLAASZ, A.A., REYTOMAS, I.G.T., DAWSON, N.F., ZHAO, C., BOND, C., SUMMERS, R.J., PARRY, L.J., WADE, J.D. & TREGEAR, G.W.**

Human relaxin gene 3 (*H3*) and the equivalent mouse relaxin (*M3*) gene.

*The Journal of Biological Chemistry*, **277**, 1148-1157, 2002. (Impact Factor 6.355)

#### **CHURCH, J.E. & HODGSON, W.C.**

Adrenergic and cholinergic activity contributes to the cardiovascular effects of lionfish (*Pterois volitans*) venom.

*Toxicon*, **40**, 787-796, 2002. (Impact Factor 1.862)

#### **CHURCH, J.E. & HODGSON, W.C.**

The pharmacological activity of fish venoms.

*Toxicon*, **40**, 1083-1093, 2002. (Impact Factor 1.862)

#### **DJOUMA, E. & LAWRENCE, A.J.**

The effect of chronic ethanol consumption and withdrawal on  $\mu$ -opioid and dopamine D<sub>1</sub> and D<sub>2</sub> receptor density in fawn-hooded rat brain.

*The Journal of Pharmacology and Experimental Therapeutics*, **302**, 551-559, 2002. (Impact Factor 4.335)

#### **FONG, A.Y., KRSTEW, E.V., BARDEN, J. & LAWRENCE, A.J.**

Immunoreactive localisation of P2Y<sub>1</sub> receptors within the rat and human nodose ganglia and rat brainstem: comparison with [ $\alpha$ <sup>33</sup>P]deoxyadenosine 5'triphosphate autoradiography.

*Neuroscience*, **113**, 809-823, 2002. (Impact Factor 3.734)

#### **FRY, B.G., WICKRAMARATNA, J.C., HODGSON, W.C., ALEWOOD, P.F., KINI, R.M., HO, H. & WÜSTER, W.**

Electroscopy liquid chromatography/mass spectrometry fingerprinting of *Acanthopis* (death adder) venoms: taxonomic and toxicological implications.

*Rapid Communications in Mass Spectrometry*, **16**, 600-608, 2002. (Impact Factor 2.750)

#### **GIARDINA, S.F. & BEART, P.M.**

Kainate receptor-mediated apoptosis in primary cultures of cerebellar granule cells is attenuated by mitogen-activated protein and cyclin-dependent kinase inhibitors.

*British Journal of Pharmacology*, **135**, 1733-1742, 2002. (Impact Factor 3.325)

**GIBBS, M.E. & SUMMERS, R.J.**

Effects of glucose and 2-deoxyglucose on memory formation in the chick: interaction with  $\beta_3$ -adrenoceptor agonists.

*Neuroscience*, **114**, 69-79, 2002. (Impact Factor 3.734)

**GIBBS, M.E. & SUMMERS, R.J.**

Role of adrenoceptor subtypes in memory consolidation.

*Progress in Neurobiology*, **67**, 345-391, 2002. (Impact Factor 11.933)

**HODGSON, W.C. & WICKRAMARATNA, J.C.**

*In vitro* neuromuscular activity of snake venoms.

*Clinical and Experimental Pharmacology and Physiology*, **29**, 807-814, 2002. (Impact Factor 1.672)

**HUTCHINSON, D.S., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Mouse  $\beta_{3a}$ - and  $\beta_{3b}$ -adrenoceptors expressed in Chinese hamster ovary cells display identical pharmacology but utilize distinct signalling pathways.

*British Journal of Pharmacology*, **135**, 1903-1914, 2002. (Impact Factor 3.325)

**LAWRENCE, A.J., KRSTEW, E.V., DAUTZENBURG, F. & RÜHMANN, A.**

The highly selective CRF2 receptor antagonist K41498 binds to presynaptic CRF2 receptors in rat brain.

*British Journal of Pharmacology*, **136**, 896-904, 2002. (Impact Factor 3.325)

**MCLAREN, W.J., ANIKIJENKO, P., THOMAS, S.G., DELANEY, P.M. & KING, R.G.**

*In vivo* detection of morphological and microvascular changes of the colon in association with colitis using fiberoptic confocal imaging (FOCI).

*Digestive Diseases and Sciences*, **47**, 2424-2433, 2002. (Impact Factor 1.427)

**MOLDRICH, R.X., APRICÓ, K., DIWAKARLA, S., O'SHEA, R.D. & BEART, P.M.**

Astrocyte mGlu<sub>2/3</sub>-mediated cAMP potentiation is calcium sensitive: studies in murine neuronal and astrocyte cultures.

*Neuropharmacology*, **43**, 189-203, 2002. (Impact Factor 3.734)

**NEVZOROVA, J., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Characterization of the  $\beta$ -adrenoceptor subtype involved in mediation of glucose transport in L6 cells.

*British Journal of Pharmacology*, **137**, 9-18, 2002. (Impact Factor 3.325)

**O'SHEA, R.D.**

Roles and regulation of glutamate transporters in the central nervous system.

*Clinical and Experimental Pharmacology and Physiology*, **29**, 1018-1023, 2002. (Impact Factor 1.672)

**O'SHEA, R.D., FODERA, M.V., APRICÓ, K., DEHNES, Y., DANBOLT, N.C., CRAWFORD, D. & BEART, P.M.**

Evaluation of drugs acting at glutamate transporters in organotypic hippocampal cultures: new evidence on substrates and blockers in excitotoxicity.

*Neurochemical Research*, **27**, 5-13, 2002. (Impact Factor 2.218)

**PAPANIKOS, A., EKLUND, J., JACKSON, W.R., KENCHE, V.B., CAMPI, E.M., ROBERTSON, A.D., JARROTT, B., BEART, P.M., MUNRO, F.E. & CALLAWAY, J.K.**

Cyclic voltammetry as an indicator of antioxidant activity.

*Australian Journal of Chemistry*, **55**, 205-212, 2002. (Impact Factor 1.257)

**PATAK, E., PENNEFATHER, J.N., FLEMING, A. & STORY, M.E.**

Functional characterisation of tachykinin NK<sub>1</sub> receptors in the mouse uterus.

*British Journal of Pharmacology*, **137**, 1247-1254, 2002. (Impact Factor 3.325)

**RAMASAMY, S., HODGSON, W.C. & VENTURA, S.**

Protein kinase C and the sub-sensitivity and sub-reactivity of the diabetic rat prostate gland to noradrenaline.

*European Journal of Pharmacology*, **434**, 151-161, 2002. (Impact Factor 2.432)

**RASH, L.D. & HODGSON, W.C.**

Pharmacology and biochemistry of spider venoms.

*Toxicon*, **40**, 225-254, 2002. (Impact Factor 1.862)

**ROSAMILIA, A.E., MAYES, P.A., PAPADOPOULOS, R., CAMPI, E.M., JACKSON, W.R., RASH, L.D. & JARROTT, B.**

Synthesis of some nefopam analogues as potential analgesics.

*Australian Journal of Chemistry*, **55**, 577-585, 2002. (Impact Factor 1.257)

**ALGHAFRA, A., GUDE, N.M., KING, R.G. & BRENNECKE, S.P.**

Human fetal membranes adrenomedullin content in pre-eclampsia.

*Placenta*, **23** (7), A42 (Poster P125), 2002.

**ANDREWS, K.L., MCGUIRE, J.J. & TRIGGLE, C.R.**

A photosensitive vascular smooth muscle store of nitric oxide independent of expression of endothelial, neuronal or inducible nitric oxide synthase.

*The Australian Health and Medical Research Congress*, Abstract 1158, 2002.

**APRICÓ, K., LAWRENCE, A.J., CRAWFORD, D., BEART, P.M. & O'SHEA, R.D.**

[<sup>3</sup>H]-(2S,4R)-4-methylglutamate as a radioligand for glutamate transporters in coronal brain slices.

*Proceedings of the Australian Neuroscience Society*, **13**, 186 (Poster 2-259), 2002.

**BAILEY, K.A., LEURMANS, J. & GIBBS, M.E.**

Characterisation of genes induced during memory formation in the chick.

*Proceedings of the Australian Neuroscience Society*, **13**, 57 (Poster 1-1), 2002.

**BEART, P.M., APRICÓ, K., CRAWFORD, D. & O'SHEA, R.D.**

Binding studies with the novel ligand [<sup>3</sup>H]4-methylglutamate confirm that the L-glutamate transporter in mouse astrocytes is of the EAAT1 subtype.

*Federation of European Neuroscience Societies*, 3<sup>rd</sup> Forum, 537 (217.2 Poster p196), 2002.

**BEART, P.M., APRICÓ, K., CHEN, B., LAWRENCE, A.J., PEI, X.-F. & O'SHEA, R.D.**

Structure-activity studies of 4-methylglutamate analogs at glutamate transporters: binding studies with [<sup>3</sup>H] (2S,4R)-4-methylglutamate [<sup>3</sup>H]D-aspartate.

*The Australian Health and Medical Research Congress*, Abstract 2017, 2002.

**BEART, P.M., APRICÓ, K., O'SHEA, R.D. & MOLDRICH, R.X.**

Astrocyte mGlu<sub>2/3</sub>-mediated cAMP potentiation is calcium sensitive: studies in murine neuronal and astrocyte cultures.

*Neuropharmacology*, **43**, 276 (Abstract 12), 2002.

**BEART, P.M., O'SHEA, R.D., APRICÓ, K., CHEN, B., LAWRENCE, A.J., MACCECCHINI, M.-L. & PEI, X.-F.**

Novel insights into the structure-activity requirements of glutamate transporters from binding studies with [<sup>3</sup>H](2S,4R)-4-methylglutamate, [<sup>3</sup>H]D-aspartate and 4-methylglutamate analogs.

*The Pharmacologist*, **44** (Supplement 1), A244 (Abstract 138.1), 2002.

**BOND, C.P., SAMUEL, C.S., PARRY, L.J., ZHAO, C., GEHRING, H., ROGERS, P., TREGEAR, G.W. & SUMMERS, R.J.**

Regulation of the relaxin receptor in the human uterus.

*The Australian Health and Medical Research Congress*, Abstract 221, 2002.

**BROXTON, N.M., EVANS, B.A. & SUMMERS, R.J.**

Ligand directed signalling of  $\alpha_{1A}$ -adrenoceptors.

*The Australian Health and Medical Research Congress*, Abstract 2132, 2002.

**CALLAWAY, J.K. & JARROTT, B.**

AM-36 inhibits ischaemia-induced dopamine release in the striatum of conscious rats.  
*Proceedings of the Australian Neuroscience Society*, **13**, 131 (Poster 1-150), 2002.

**CAMM, E.J., REES, S.M., HARDING, R. & GIBBS, M.E.**  
The effect of prenatal hypoxia on the structure of the chick brain.  
*The Australian Health and Medical Research Congress*, Abstract 1172, 2002.

**CARROLL, F.Y., GALVEZ, T., PRÉZEAU, L. & PIN, J.-P.**  
Constitutive activity of the GABA<sub>B</sub> receptor.  
*Proceedings of the Australian Neuroscience Society*, **13**, 170 (Poster 2-228), 2002.

**CARROLL, F.Y., GALVEZ, T., PRÉZEAU, L. & PIN, J.-P.**  
Molecular mechanisms of constitutive activity of GABA<sub>B</sub> receptors.  
*The Fifth International GABA<sub>B</sub> Symposium, Satellite Meeting of the Third Neuroscience Forum*, 45, 2002.

**CARROLL, F.Y., GALVEZ, T., PRÉZEAU, L. & PIN, J.-P.**  
Molecular mechanisms underlying constitutive activity of GABA<sub>B</sub> receptors.  
*Federation of European Neuroscience Societies*, 3<sup>rd</sup> Forum, 359 (144.3 Poster p122), 2002.

**CHEN, F. & LAWRENCE, A.J.**  
Effects of chronic antidepressant treatment on 5-HT transporters and 5-HT<sub>2A</sub> receptors in mesolimbic regions of fawn-hooded rats.  
*Proceedings of the Australian Neuroscience Society*, **13**, 204 (Poster 2-295), 2002.

**CHURCH, J.E., MOLDRICH, R.X., BEART, P.M. & HODGSON, W.C.**  
Stonefish (*Synanceia trachynis*) venom produces an increase in intracellular Ca<sup>2+</sup> concentration in murine cortical neurons.  
*Proceedings of the Australian Neuroscience Society*, **13**, 132 (Poster 1-151), 2002.

**DJOUMA, E. & LAWRENCE, A.J.**  
Opioid peptide gene expression  $\mu$ -opioid, dopamine D<sub>1</sub> and D<sub>2</sub> receptor density in fawn-hooded rat brain: effects of chronic ethanol consumption and withdrawal.  
*Proceedings of the Australian Neuroscience Society*, **13**, 227 (Poster 2-342), 2002.

**DU, A.N., FRY, B.G., ANDREWS, R.K. & HODGSON, W.C.**  
A pharmacological examination of sea snake venoms.  
*The Australian Health and Medical Research Congress*, Abstract 2156, 2002.

**DUKE, L.M., EPPEL, G.A.\*, WIDDOP, R.E. & EVANS, R.G.\***  
Evidence for a role of AT<sub>2</sub> receptors in the renal medullary circulation of anaesthetised rabbits.  
*The Australian Health and Medical Research Congress*, Abstract 1418, 2002.

**DUKE, L.M., EVANS, R.G. & WIDDOP, R.E.**  
AT<sub>2</sub> receptors do not contribute to the acute antihypertensive and vasodilator effects of AT<sub>1</sub> receptor blockade in conscious SHR.  
*The Australian Health and Medical Research Congress*, Abstract 2856, 2002.

**ELLIS, A., ANDREWS, K.L. & TRIGGLE, C.R.**  
Role of gap junctional communication in mouse resistance arteries.  
*The Australian Health and Medical Research Congress*, Abstract 2002, 2002.

**FAVALORO, J.L. & KEMP-HARPER, B.K.**

Nitric oxide (NO) and the nitroxyl anion (NO<sup>-</sup>) have differing profiles of relaxant activity in rat mesenteric artery.

*The Australian Health and Medical Research Congress*, Abstract 1157, 2002.

**FONG, A.Y. & LAWRENCE, A.J.**

Characterisation of [ $\alpha^{33}\text{P}$ ]d-ATP binding to P2Y<sub>1</sub> receptors in rat nodose ganglia and brainstem.

*Proceedings of the Australian Neuroscience Society*, **13**, 191 (Poster 2-270), 2002.

**FRY, G.G., WICKRAMARATNA, J.C., HODGSON, W.C., ALEWOOD, P.F., KINI, R.M., HO, H. & WÜSTER, W.**

Electrospray LC-MS fingerprinting of *Acanthophis* (death adder) venoms: taxonomic and toxicological implications.

*Sixth Asia-Pacific Congress on Animal, Plant and Microbial Toxins*, 53 (Symposium 12, Paper 5), 2002.

**GASPARI, T.A. & WIDDOP, R.E.**

Vascular reactivity in isolated mouse aorta: a comparison between C57BL/6J and apolipoprotein-E deficient mice.

*The Australian Health and Medical Research Congress*, Abstract 2003, 2002.

**GIBBS, M.E. & SUMMERS, R.J.**

Involvement of noradrenaline in basal ganglia and cerebral cortex in memory formation in the chick.

*The Australian Health and Medical Research Congress*, Abstract 2018, 2002.

**GIBBS, M.E. & SUMMERS, R.J.**

Modulation of memory by noradrenaline in the chick is mediated by differential recruitment of alpha and beta adrenoceptors.

*Federation of European Neuroscience Societies*, 3<sup>rd</sup> Forum, 438 (175.11 Poster p162), 2002.

**GIBBS, M.E. & SUMMERS, R.J.**

Temporal and spatial localisation of  $\alpha$ - and  $\beta$ -adrenoceptors responsible for noradrenergic consolidation of memory.

*Receptors and Channels*, **8**, 125, 2002.

**GIBBS, M.E. & SUMMERS, R.J.**

Temporal and spatial involvement of  $\alpha$ - and  $\beta$ -adrenoceptors in memory formation discriminated avoidance learning in the chick.

*The Pharmacologist*, **44** (Supplement 1), A96 (Abstract 63.4), 2002.

**GOH, D., JONES, E.S. & WIDDOP, R.E.**

The effect of chronic angiotensin II treatment on cardiac hypertrophy and fibrosis in mice.

*The Australian Health and Medical Research Congress*, Abstract 2806, 2002.

**HANNAN, R.E., GASPARI, T.A., DAVIS, E.A. & WIDDOP, R.E.**

The role of angiotensin II receptor subtypes in mediating cyclic GMP production in the rat uterine artery and aorta.

*The Australian Health and Medical Research Congress*, Abstract 1305, 2002.

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Agonist and antagonist effects of the  $\beta_3$ -adrenoceptor antagonist SR59230A at the mouse  $\beta_3$ -adrenoceptor.  
*The Pharmacologist*, **44 (Supplement 1)**, A199 (Abstract 110.40), 2002.

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

The  $\beta_3$ -adrenoceptor (AR) antagonist SR59230A displays agonist properties at the mouse  $\beta_3$ -AR.  
*The Australian Health and Medical Research Congress*, Abstract 1352, 2002.

**HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

The  $\beta_3$ -adrenoceptor (AR) antagonist SR59230A has both agonist and antagonist properties of mouse  $\beta_3$ -ARS.  
*Receptors and Channels*, **8**, 126, 2002.

**IRVINE, J.C., FAVALORO, J.F. & KEMP-HARPER, B.K.**

The nitroxyl anion ( $\text{NO}^-$ ) mediates relaxation of rat small mesenteric arteries in part via the activation of soluble guanylate cyclase and voltage-dependent  $\text{K}^+$  channels.  
*The Australian Health and Medical Research Congress*, Abstract 2013, 2002.

**JARROTT, B. & DAVIS, E.A.**

Running 'on-line' classes to teach (and also assess) how students can retrieve pertinent information on new drugs from the World Wide Web.  
*The Pharmacologist*, **44 (Supplement 1)**, A4 (Abstract 9.2), 2002.

**JONES, E.E., DAVIS, E.A. & KEMP-HARPER, B.K.**

Nitric oxide modulates the response to C-type natriuretic peptide in the rat isolated aortae via a cyclic GMP-dependent mechanism.  
*The Australian Health and Medical Research Congress*, Abstract 2012, 2002.

**JONES, N.M., BLACK, M.J. & WIDDOP, R.E.**

Influence of the angiotensin  $\text{AT}_2$  receptor on cardiovascular status in spontaneously hypertensive rats during chronic  $\text{AT}_1$  receptor blockade.  
*Journal of Hypertension*, **20 (Supplement 4)**, S284 (Abstract P1203), 2002.

**JONES, N.M., BLACK, M.J. & WIDDOP, R.E.**

Influence of the angiotensin  $\text{AT}_2$  receptor on cardiovascular status in spontaneously hypertensive rats during chronic  $\text{AT}_1$  receptor blockade.  
*The Australian Health and Medical Research Congress*, Abstract 2815, 2002.

**KEMP-HARPER, B.K., MCPHERSON, G.A. & FAVALORO, J.L.**

The nitroxyl anion ( $\text{NO}^-$ ) mediates relaxation of small resistance arteries in part via the activation of soluble guanylate cyclase (sGC) and  $\text{K}^+$  channels.  
*The Pharmacologist*, **44 (Supplement 1)**, A214 (Abstract 130.14), 2002.

**KING, R.G., VO, L.T. & DELANEY, P.M.**

Non-invasive sub-surface fibre optic confocal imaging of intradermal human melanomas in anaesthetised athymic mice.  
*The Pharmacologist*, **44 (Supplement 1)**, A64 (Abstract 38.31), 2002.

**KOMPA, A.R., SAMUEL, C.S. & SUMMERS, R.J.**

Reduced inotropic responses to human gene 2 (B29) relaxin and LRG7 mRNA in rat atria following myocardial infarction (MI): effect of pertussis toxin.

*The Australian Health and Medical Research Congress, Abstract 2007, 2002.*

**KRAEHENBUEHL, T.L., JARROTT, B. & LAWRENCE, A.J.**

The effect of acamprosate on free-choice ethanol consumption in fawn-hooded rats.  
*Proceedings of the Australian Neuroscience Society, 13, 228 (Poster 2-344), 2002.*

**LAWRENCE, A.J., KRSTEW, E.V., DAUTZENBERG, F.M. & RÜHMANN, A.**

The novel highly selective CRF<sub>2</sub> receptor antagonist, K41498 binds to presynaptic CRF<sub>2</sub> receptors in rat brain.  
*Proceedings of the Australian Neuroscience Society, 13, 114 (Poster 1-116), 2002.*

**LAWRENCE, A.J., LODGE, D.J., SHORT, J. & CHEN, F.**

Neuropharmacological and genetic approaches to study volitional ethanol consumption.  
*Proceedings of the Australian Neuroscience Society, 13, 12 (Symposium 1-4), 2002.*

**LODGE, D.J. & LAWRENCE, A.J.**

The CRF<sub>1</sub> receptor antagonist, antalarmin reduces volitional ethanol consumption in Fawn-hooded rats.  
*Proceedings of the Australian Neuroscience Society, 13, 34 (Oral 1-8), 2002.*

**LUMSDEN, N.G., FRY, B.G. & HODGSON, W.C.**

The neurotoxic activity of *Colubrid* Duvernoy's secretions.  
*The Australian Health and Medical Research Congress, Abstract 1232, 2002.*

**MCDUGALL, S.J., LAWRENCE, A.J. & WIDDOP, R.E.**

Differential stress responses with antihypertensive treatment in spontaneously hypertensive rats.  
*The Australian Health and Medical Research Congress, Abstract 2833, 2002.*

**MCDUGALL, S.J., WIDDOP, R.E. & LAWRENCE, A.J.**

Differential cardiovascular and neurochemical adaptation to repeated air-jet stress in Wistar Kyoto and spontaneously hypertensive rats.  
*Proceedings of the Australian Neuroscience Society, 13, 107 (Poster 1-102), 2002.*

**MOLDRICH, R.X., APRICÓ, K., O'SHEA, R.D. & BEART, P.M.**

The mGlu<sub>2/3</sub> agonist 2R,4R-APDC induces adenosine release via phospholipase C and calmodulin kinase in cultured murine astrocytes.  
*Neuropharmacology, 43, 298 (Abstract 91), 2002.*

**MOLDRICH, R.X. & BEART, P.M.**

Cyclic AMP regulation in vitro by the group II metabotropic glutamate receptor (mGlu<sub>2/3</sub>) agonist 2R,4R-4-aminopyrrolidine-2,4-dicarboxylate (APDC).  
*Proceedings of the Australian Neuroscience Society, 13, 197 (Poster 2-282), 2002.*

**MOLDRICH, R.X. & BEART, P.M.**

Group II metabotropic glutamate receptor-mediated inhibition of cAMP is modulated by calcium and magnesium *in vitro*.  
*Federation of European Neuroscience Societies, 3<sup>rd</sup> Forum, 532 (214.13 Poster p162), 2002.*

**NEVZOROVA, J., BENGTTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

B<sub>2</sub>-adrenoceptors mediate glucose transport in L6 cells.  
*Receptors and Channels, 8, 128, 2002.*

**NEVZOROVA, J., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Characterisation of B-adrenoceptor agonist-mediated glucose transport in L6 cells.

*The Pharmacologist*, **44 (Supplement 1)**, A200 (Abstract 110.42), 2002.

**NEVZOROVA, J., EVANS, B.A. & SUMMERS, R.J.**

B<sub>2</sub>-adrenoceptor Signalling pathways mediating glucose transport in L6 cells.

*The Australian Health and Medical Research Congress*, Abstract 2102, 2002.

**PATAK, E.N., PENNEFATHER, J.N., STORY, M.E., PINTO, F.M., CANDENAS, M.L., ZICCONI, S. & LILLEY, A.**

Tachykinin receptors in human myometrium.

*Placenta*, **23 (7)**, A37 (Poster P106), 2002.

**PATAK, E.N., ZICCONI, S., PENNEFATHER, J.N., STORY, M.E., & LILLEY, A.**

Uteronic effects of eldoisin on pregnant human uterus are mediated by NK<sub>2</sub> receptors.

*Placenta*, **23 (7)**, A37 (Poster P105), 2002.

**PATAK, E.N., ZICCONI, S., PENNEFATHER, J.N., STORY, M.E., & LILLEY, A.**

Uteronic effects of eldoisin on pregnant human uterus are mediated by NK<sub>2</sub> receptors.

*The Australian Health and Medical Research Congress*, Abstract 2420, 2002.

**PINTO, F.M., CANDENAS, M. L., VENTURA, S., ZICCONI, S., PATAK, E.N., STORY, M.E., LILLEY, A. & PENNEFATHER, J.N.**

Tachykinin peptide expression in human uterus.

*Placenta*, **23**, A36 (Poster P104), 2002.

**POPP, B.D., TILAKARATNE, N., EVANS, B.E., SEXTON, P.M. & SUMMERS, R.J.**

Effects of coexpression of receptor activity modifying proteins (RAMPs) on human  $\beta_1$ -adrenoceptors.

*The Australian Health and Medical Research Congress*, Abstract 2143, 2002.

**RAMASAMY, S., HODGSON, W.C. & LAWRENCE, A.J.**

Female wolf spider (*Lycosa spp.*) crude venom modulates [<sup>3</sup>H]-dopamine release in the rat caudate putamen.

*Proceedings of the Australian Neuroscience Society*, **13**, 200 (Poster 2-287), 2002.

**RAMASAMY, S., LAWRENCE, A.J. & HODGSON, W.C.**

Female wolf spider (*Lycosa spp.*) crude venom modulates [<sup>3</sup>H]-dopamine release in the rat caudate putamen and may contain a myotoxic component.

*Sixth Asia-Pacific Congress on Animal, Plant and Microbial Toxins*, 147 (Poster 2-6), 2002.

**SAMUEL, C.S., ZHAO, C., BATHGATE, R.A.D., BOND, C.P., BURTON, M.D., SUMMERS, R.J., TANG, M.L.K. & TREGGAR, G.W.**

Relaxin: a potential therapy for pulmonary fibrosis.

*The Australian Health and Medical Research Congress*, Abstract 2423, 2002.

**SCOTT, R.L., CHEUNG, N.S., BEART, P.M. & CHEEMA, S.S.**

Proteomic analysis in the SOD-1 G93A mouse model of human amyotrophic lateral sclerosis.

*Proceedings of the Australian Neuroscience Society*, **13**, 148 (Poster 1-184), 2002.

**SHORT, J.L. & LAWRENCE, A.J.**

The role of mouse strain in behavioural studies.

*Proceedings of the Australian Neuroscience Society*, **13**, 229 (Poster 2-346), 2002.

**STANIC, D., FINKELSTEIN, D.I., PARISH, C.L., ZHU, W., KRSTEW, E.V., DRAGO, J., LAWRENCE, A.J. & HORNE, M.K.**

Changes in function and ultrastructure of striatal dopaminergic terminals following partial lesions of the SNpc.

*Federation of European Neuroscience Societies*, 3<sup>rd</sup> Forum, 476 (186.16 Poster p162), 2002.

**STEVENSON, J.L., KALIONIS, B., ROGERS, S., BEST, J.D., KING, R.G., HUISMAN, M.A., ERWICH, J.J.H.M., TIMMER, A. & GUDE, N.M.**

Dynamic spatial and temporal expression pattern for the novel glucose transporter GLUT12 in human placenta.

*Placenta*, **23** (7), A44 (Poster P133), 2002.

**TILAKARATNE, N., SMYTH, K., POPP, B., SUMMERS, R.J. & SEXTON, P.M.**

Beta-adrenergic receptor properties in SK-N-MC human neuroblastoma cells are altered by receptor activity modifying proteins (RAMPs)

*The Australian Health and Medical Research Congress*, Abstract 2145, 2002.

**VINH, A., WIDDOP, R.E. & GASPARI, T.A.**

Role of angiotensin IV on endothelial function in apolipoprotein E-deficient mice.

*The Australian Health and Medical Research Congress*, Abstract 2820, 2002.

**VO, L.T., DELANEY, P.M. & KING, R.G.**

Imaging of sub-surface human melanomas in live mice using fibre optic confocal imaging (FOCI).

*Focus on Microscopy 2002*, 104 (Abstract WaA6), 2002.

**WALTERS, P. & WIDDOP, R.E.**

Does AT1 receptor blockade unmask a vasodepressor effect of Ang III in conscious SHR?

*The Australian Health and Medical Research Congress*, Abstract 2817, 2002.

**WANG, J.H., LAWRENCE, A.J., SHORT, J. & VAN DEN BUUSE, M.**

Reduced startle habituation and prepulse inhibition of startle in mice lacking the adenosine A2a receptor.

*The Australian Health and Medical Research Congress*, Abstract 2024, 2002.

**WESTON, R.M., JARROTT, B. & CALLAWAY, J.K.**

Neutrophil infiltration is reduced by Am-36 in a middle cerebral artery model of stroke in conscious rats.

*Proceedings of the Australian Neuroscience Society*, **13**, 149 (Poster 1-186), 2002.

**WICKRAMARATNA, J.C., FRY, B.G., AGUILAR, M.I., KINI, R.M. & HODGSON, W.C.**

Isolation and pharmacological characterisation of a myotoxic PLA<sub>2</sub> from a death adder venom.

*Sixth Asia-Pacific Congress on Animal, Plant and Microbial Toxins*, 23 (Symposium 7, Paper 2), 2002.

**WIDDOP, R.E., MATROUGUI, K., LEVY, B.I. & HENRION, D.**

AT<sub>2</sub> receptor-mediated relaxation is preserved following chronic AT<sub>1</sub> receptor blockade.

*The Australian Health and Medical Research Congress*, Abstract 1306, 2002.

**YAO, S.T., GOURINE, A.V., SPYER, K.M. & LAWRENCE, A.J.**

A co-localisation study of nitric oxide synthase and P2X<sub>2</sub> purinoceptors in the rat brain.

*Proceedings of the Australian Neuroscience Society*, **13**, 185 (Poster 2-257), 2002.

**YEOH, B., JARROTT, B. & CALLAWAY, J.K.**

The effect of the neuroprotective drug, AM-36, on a model of Huntington's disease.

*Proceedings of the Australian Neuroscience Society*, **13**, 141 (Poster 1-170), 2002.

## PUBLICATIONS 2003

### PAPERS 2003

**AL-GHAFRA, A.K., GUDE, N.M., BRENNECKE, S.P. & KING, R.G.**

Labour-associated changes in adrenomedullin content in human placenta and fetal membranes.  
*Clinical Science (London)*, **105**, 419-423, 2003. (Impact Factor 2.168)

**CALLAWAY, J.K., LAWRENCE, A.J. & JARROTT, B.**

AM-36, a novel neuroprotective agent, profoundly reduces reactive oxygen species formation and dopamine release in the striatum of conscious rats after endothelin-1-induced middle cerebral artery occlusion.  
*Neuropharmacology*, **44**, 787-800, 2003. (Impact Factor 3.734)

**CHEN, F. & LAWRENCE, A.J.**

The effects of antidepressant treatment on serotonergic and dopaminergic systems in Fawn-Hooded rats: a quantitative autoradiography study.  
*Brain Research*, **976**, 22-29, 2003. (Impact Factor 2.389)

**CHEN, F., REZVANI, A.H. & LAWRENCE, A.J.**

Autoradiographic quantification of neurochemical markers of serotonin, dopamine and opioid systems in rat brain mesolimbic regions following chronic St. John's wort treatment.  
*Naunyn-Schmiedeberg's Archives of Pharmacology*, **367**, 126-133, 2003. (Impact Factor 1.963)

**CHURCH, J.E. & HODGSON, W.C.**

Stonefish (*Synanceia trachynis*) antivenom: *in vitro* efficacy and clinical use.  
*Journal of Toxicology – Toxin Reviews*, **22**, 69-76, 2003. (Impact Factor 0.630)

**CHURCH, J.E., MOLDRICH, R.X., BEART, P.M. & HODGSON, W.C.**

Modulation of intracellular Ca<sup>2+</sup> levels by *Scorpaenidae* venoms.  
*Toxicon*, **41**, 679-689, 2003. (Impact Factor 1.862)

**CROSSLEY, K.J., NITSOS, I., WALKER, D.W., LAWRENCE, A.J., BEART, P.M. & HIRST, J.J.**

Steroid-sensitive GABA<sub>A</sub> receptors in the fetal sheep brain.  
*Neuropharmacology*, **45**, 461-472, 2003. (Impact Factor 3.734)

**DUKE, L.M., EPEL, G.A., WIDDOP, R.E. & EVANS, R.G.**

Disparate roles of AT<sub>2</sub> receptors in the renal cortical and medullary circulations of anesthetized rabbits.  
*Hypertension*, **42**, 200-205, 2003. (Impact Factor 5.342)

**DUKE, L.M., PAULL, J.R.A. & WIDDOP, R.E.**

Cardiovascular status following combined angiotensin-converting enzyme and AT<sub>1</sub> receptor inhibition in conscious spontaneously hypertensive rats.  
*Clinical and Experimental Pharmacology and Physiology*, **30**, 317-323, 2003. (Impact Factor 1.672)

**FAVALORO, J.L., ANDREWS, K.L. & MCPHERSON, G.A.**

Novel imidazoline compounds that inhibit Kir-mediated vasorelaxation in rat middle cerebral artery.  
*Naunyn-Schmiedeberg's Archives of Pharmacology*, **367**, 397-405, 2003. (Impact Factor 1.963)

**FRY, B.G., LUMSDEN, N.G., WÜSTER, W., WICKRAMARATNA, J.C., HODGSON, W.C. &**

**KINI, R.M.**

Isolation of a neurotoxin ( $\alpha$ -colubritoxin) from a nonvenomous colubrid: evidence for early origin of venom in snakes.

*Journal of Molecular Evolution*, **57**, 446-452, 2003. (Impact Factor 2.751)

**FRY, B.G., WINKEL, K.D., WICKRAMARATNA, J.C., HODGSON, W.C. & WÜSTER, W**

Effectiveness of snake antivenom: species and regional venom variation and its clinical impact.

*Journal of Toxicology – Toxin Reviews*, **22**, 23-34, 2003. (Impact Factor 0.630)

**GIBBS, M.E., ANDREW, R.J. & NG, K.T.**

Hemispheric lateralization of memory stages for discriminated avoidance learning in the chick.

*Behavioural Brain Research*, **139**, 157-165, 2003. (Impact Factor 2.992)

**GIBBS, M.E. & SUMMERS, R.J.**

$\alpha_2$ -adrenoceptors in the basal ganglia have a role in memory consolidation and reinforcement.

*Neuropharmacology*, **45**, 355-367, 2003. (Impact Factor 3.734)

**GUDE, N.M., STEVENSON, J.L., ROGERS, S., BEST, J.D., KALIONIS, B., HUISMAN, M.A., ERWICH, J.J.H.M., TIMMER, A. & KING, R.G.**

GLUT12 expression in human placenta in first trimester and term.

*Placenta*, **24**, 566-570, 2003. (Impact Factor 2.683)

**HANNAN, R.E., DAVIS, E.A. & WIDDOP, R.E.**

Functional role of angiotensin II AT<sub>2</sub> receptor in modulation AT<sub>1</sub> receptor-mediated contraction in rat uterine artery: involvement of bradykinin and nitric oxide.

*British Journal of Pharmacology*, **140**, 987-995, 2003. (Impact Factor 3.325)

**HERTZ, L., O'DOWD, B.S., NG, K.T. & GIBBS, M.E.**

Reciprocal changes in forebrain contents of glycogen and of glutamate/glutamine during memory consolidation in the day-old chick.

*Brain Research*, **994**, 226-233, 2003. (Impact Factor 2.389)

**HODGSON, W.C., ERIKSSON, C.O., ALEWOOD, P.F. & FRY, B.G.**

Comparison of the in vitro neuromuscular activity of venom from three Australian snakes (*Hoplocephalus Stephensi*, *Austrelaps Supernbus* and *Notechis Scutatus*): efficacy of tiger snake antivenom.

*Clinical and Experimental Pharmacology and Physiology*, **30**, 127-132, 2003. (Impact Factor 1.672)

**IRVINE, J.C., FAVALORO, J.L. & KEMP-HARPER, B.K.**

NO<sup>-</sup> activates soluble guanylate cyclase and kv channels to vasodilate resistance arteries.

*Hypertension*, **41**, 1301-1307, 2003. (Impact Factor 5.342)

**JOUBRAN, L., JACKSON, W.R., CAMPI, E.M., ROBINSON, A.J., WELLS, B.A., GODFREY, P.D., CALLAWAY, J.K. & JARROTT, B.**

Arylpropanolamines incorporating an antioxidant function as neuroprotective agent.

*Australian Journal of Chemistry*, **56**, 597-605, 2003. (Impact Factor 1.257)

**KING, R.G., OSMOND, D.T.D., BRENNECKE, S.P. & GUDE, N.M.**

Effect of fetal macrosomia on human placental glucose transport and utilization in insulin-treated gestational diabetes.

*Journal of Perinatal Medicine*, **31**, 475-483, 2003. (Impact Factor 0.713)

**LODGE, D.J. & LAWRENCE, A.J.**

Comparative analysis of hepatic ethanol metabolism in Fawn-Hooded and Wistar-Kyoto rats.

*Alcohol*, **30**, 75-79, 2003. (Impact Factor 1.874)

**LODGE, D.J. & LAWRENCE, A.J.**

The CRF<sub>1</sub> receptor antagonist antalarmin reduces volitional ethanol consumption in isolation-reared Fawn-Hooded rats.

*Neuroscience*, **117**, 243-247, 2003. (Impact Factor 3.456)

**LODGE, D.J. & LAWRENCE, A.J.**

The effect of chronic CRF<sub>1</sub> receptor blockade on the central CCK systems of Fawn-Hooded rats.

*Regulatory Peptides*, **116**, 27-33, 2003. (Impact Factor 2.531)

**LODGE, D.J. & LAWRENCE, A.J.**

The effect of isolation rearing on volitional ethanol consumption and central CCK/dopamine systems in Fawn-Hooded rats.

*Behavioural Brain Research*, **141**, 113-122, 2003. (Impact Factor 2.992)

**LODGE, D.J. & LAWRENCE, A.J.**

The neurochemical effects of anxiolytic drugs are dependent on rearing conditions in Fawn-Hooded rats.

*Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **27**, 451-458, 2003.

(Impact Factor 2.149)

**LODGE, D.J., ROQUES, B.P. & LAWRENCE, A.J.**

Atypical behavioural response to CCK-B receptor ligands in Fawn-Hooded rats.

*Life Sciences*, **74**, 1-12, 2003. (Impact Factor 2.158)

**MCGREGOR, I.S., CLEMENS, K.J., VAN DER PLASSE, G., LI, K.M., HUNT, G.E., CHEN, F. & LAWRENCE, A.J.**

Increased anxiety three months after brief exposure to MDMA ('Ecstasy') in rats: Association with altered 5-HT transporter and receptor density.

*Neuropsychopharmacology*, **28**, 1472-1484, 2003. (Impact Factor 4.941)

**MOLDRICH, R.X. & BEART, P.M.**

Emerging signalling and protein interactions mediated via metabotropic glutamate receptors.

*Current Drug Targets – CNS and Neurological Disorders*, **2**, 109-122, 2003. (Impact Factor 4.104)

**MOLDRICH, R.X., CHAPMAN, A.G., DE SARRO, G. & MELDRUM, B.S.**

Glutamate metabotropic receptors as targets for drug therapy in epilepsy.

*European Journal of Pharmacology*, **476**, 3-16, 2003. (Impact Factor 2.432)

**PATAK, E., CANDENAS, M.L., PENNEFATHER, J.N., ZICCONE, S., LILLEY, A., MARTIN, J.D., FLORES, C., MANTECÓN, A.G., STORY, M.E. & PINTO, F.M.**

Tachykinins and tachykinin receptors in human uterus.

*British Journal of Pharmacology*, **139**, 523-532, 2003. (Impact Factor 3.325)

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E. & HODGSON, W.C.**

The *in vitro* effects of two chirodropid (*Chironex fleckeri* and *Chiropsalmus* sp.) venoms: efficacy of box jellyfish antivenom.

*Toxicon*, **41**, 703-711, 2003. (Impact Factor 1.862)

**RICKARD, N.S. & GIBBS, M.E.**

Effects of nitric oxide inhibition on avoidance learning in the chick are lateralized and localized.

*Neurobiology of Learning and Memory*, **79**, 252-256, 2003. (Impact Factor 4.443)

**RICKARD, N.S. & GIBBS, M.E.**

Hemispheric dissociation of the involvement of NOS isoforms in memory for discriminated avoidance in the chick.

*Learning and Memory*, **10**, 314-318, 2003. (Impact Factor 4.443)

**ROULSTON, C.L., LAWRENCE, A.J., JARROTT, B. & WIDDOP, R.E.**

Localization of AT<sub>2</sub> receptors in the nucleus of the solitary tract of spontaneously hypertensive and Wistar Kyoto rats using [<sup>125</sup>I] CGP421112: upregulation of a non-angiotensin II binding site following unilateral nodose ganglionectomy.

*Brain Research*, **968**, 139-155, 2003. (Impact Factor 2.389)

**SAMUEL, C.S., PARRY, L.J. & SUMMERS, R.J.**

Physiological or pathological – a role for relaxin in the cardiovascular system?

*Current Opinion in Pharmacology*, **3**, 152-158, 2003. (Impact Factor 4.593)

**SAMUEL, C.S., ZHAO, C., BATHGATE, R.A.D., BOND, C.P., BURTON, M.D., PARRY, L.J., SUMMERS, R.J., TANG, M.L.K., AMENTO, E.P. & TREGEAR, G.W.**

Relaxin deficiency in mice is associated with an age-related progression of pulmonary fibrosis.

*The FASEB Journal*, **17**, 121-123, 2003. (Impact Factor 6.820)

**SÁNCHEZ-FERNÁNDEZ, C., GONZÁLEZ, C., MERCER, L.D., BEART, P.M., RUIZ-GAYO, M. & FERNÁNDEZ-ALFONSO, M.S.**

Cholecystokinin induces cerebral vasodilation via presynaptic CCK<sub>2</sub> receptors: new implications for the pathophysiology of panic.

*Journal of Cerebral Blood Flow and Metabolism*, **23**, 364-370, 2003. (Impact Factor 5.673)

**TIBBALLS, J., KURUPPU, S., HODGSON, W.C., CARROLL, T., HAWDON, G., SOURIAL, M., BAKER, T. & WINKEL, K.**

Cardiovascular, haematological and neurological effects of the venom of the Papua New Guinean small-eyed snake (*Micropechis ikaheka*) and their neutralisation with CSL polyvalent and black snake antivenoms.

*Toxicon*, **42**, 647-655, 2003. (Impact Factor 1.862)

**VO, L.T., CHAN, D. & KING, R.G.**

Investigation of the effects of peppermint oil and valerian on rat liver and cultured human liver cells.

*Clinical and Experimental Pharmacology and Physiology*, **30**, 799-804, 2003. (Impact Factor 1.672)

**WANG, J.H., SHORT, J., LEDENT, C., LAWRENCE, A.J. & VAN DEN BUUSE, M.**

Reduced startle habituation and prepulse inhibition in mice lacking the adenosine A<sub>2A</sub> receptor.

*Behavioural Brain Research*, **143**, 201-207, 2003. (Impact Factor 2.992)

**WICKRAMARATNA, J.C., FRY, B.G., AGUILAR, M.-I., KINI, R.M. & HODGSON, W.C.**

Isolation and pharmacological characterization of a Phospholipase A<sub>2</sub> myotoxin from the venom of the Irian Jayan death adder (*acanthophis rugosis*).

*British Journal of Pharmacology*, **138**, 333-342, 2003. (Impact Factor 3.325)

**WICKRAMARATNA, J.C., FRY, B.G. & HODGSON, W.C.**

Species dependent variations in the in vitro myotoxicity of death adder (*acanthophis*) venoms.

*Toxicological Sciences*, **74**, 352-360, 2003. (Impact Factor 3.391)

**WIDDOP, R.E., JONES, E.S., HANNAN, R.E. & GASPARI, T.A.**

Angiotensin AT<sub>2</sub> receptors: cardiovascular hope or hype?

*British Journal of Pharmacology*, **140**, 809-824, 2003. (Impact Factor 3.325)

**YAO, S.T., GOURINE, A.V., SPYER, K.M., BARDEN, J.A. & LAWRENCE, A.J.**

Localisation of P2X<sub>2</sub> receptor subunit immunoreactivity on nitric oxide synthase expressing neurons in the brain stem and hypothalamus of the rat: a fluorescence immunohistochemical study.

*Neuroscience*, **121**, 411-419, 2003. (Impact Factor 3.456)

**ZULLI, A., WIDDOP, R.E., HARE, D.L., BUXTON, B.F. & BLACK, M.J.**

High methionine and cholesterol diet abolishes endothelial relaxation.

*Arteriosclerosis, Thrombosis, and Vascular Biology*, **23**, 1358-1363, 2003. (Impact Factor 7.432)

**ABSTRACTS      2003**

**ANDERSON, D.G., GIBBS, M.E. & SUMMERS, R.J.**

Effect of adrenergic agonists on glucose uptake in cultured astrocytes.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 18, 2003.

**ÀPRICO, K., BEART, P.M., CRAWFORD, D. & O'SHEA, R.D.**

The binding profile of the novel ligand for glutamate transporters, [<sup>3</sup>H]4-methylglutamate in astrocyte homogenates.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-132, 2003.

**BOND, C.P., BATHGATE, R.A. & SUMMERS, R.J.**

Comparison of the interaction of relaxin with LGR7 and LGR8 receptors.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 125, 2003.

**BROXTON, N.M., EVANS, B.A. & SUMMERS, R.J.**

Agonist stimulated signaling pathways of  $\alpha_{1A}$ -adrenoceptors.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 119, 2003.

**BROXTON, N.M., EVANS, B.A. & SUMMERS, R.J.**

Ligand directed coupling of the  $\alpha_{1A}$ -adrenoceptor to multiple signaling pathways.

*Proceedings of Molecular Pharmacology of G protein-coupled receptors*, Poster 2, 2003.

**CANDENAS, L. PATAK, E.N., VENTURA, S., PINTO, F., STORY, M.E. & PENNEFATHER, J.N.**

Expression of tachykinins and tachykinin receptors in the mouse uterus.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 198, 2003.

**CARD, K., LODGE, D.J. & LAWRENCE, A.J.**

The CRF<sub>1</sub> receptor antagonist, antalarmin, reverses isolation-induced upregulation of dopamine D<sub>2</sub> receptors in the amygdale and nucleus accumbens of fawn-hooded rats.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-338, 2003.

**CHEN, B., LIM, M., COSSINS, L.R., SAIHARA, Y., CHEUNG, N.S., NAGLEY, P. & BEART, P.M.**

Cytochrome C and Smac/DIABLO are released by mitochondria to regulate neuronal apoptosis.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-090, 2003.

**CHEN, F. & LAWRENCE, A.J.**

A region-specific attenuation of G-protein coupling to 5-HT<sub>1A</sub> – and  $\mu$ -opioid-receptors in the rat amygdale after antidepressant treatment: a quantitative autoradiographic study.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-189, 2003.

**COWEN, M.S., SCHROFF, K.-C., LAWRENCE, A.J., TRONCHE, F. & SPANAGEL, R.**

The endogenous opioid system and tolerance to the anti-drinking effects of acamprostate.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-342, 2003.

**D'AMORE, A., JONES, E., WIDDOP, R.E. & BLACK, M.**

Effect of angiotensin II type 2 receptor stimulation on myocardial capillarisation and fibrosis.  
*Journal of Hypertension*, **21 (Supplement 4)**, S36 (Poster P1.57).

**DIWAKARLA, S., LIM, M., NAGLEY, P. & BEART, P.M.**

Mitochondria, reactive oxygen species, and neuronal apoptosis.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-092, 2003.

**DJOUMA, E. & LAWRENCE, A.J.**

Modulation of neurokinin-1 receptors by antalarmin and ethanol.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-340, 2003.

**FARSO, M.C., BEART, P.M. & CARROLL, F.Y.**

Neuroprotective effects of group III metabotropic glutamate (mGlu) receptor agonists in primary neuronal cultures.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-135, 2003.

**FAVALORO, J.L. & KEMP-HARPER, B.K.**

Nitric oxide and the nitroxyl anion (NO<sup>-</sup>) hyperpolarise rat artery via distinct mechanisms.  
*Proceedings of the Eleventh Australian and New Zealand Microcirculation Symposium*, 51 (Oral 7.2), 2003.

**FRY, B.G., LUMSDEN, N.G., HODGSON, W.C., KINI, R.M. & WUSTER, W.**

The molecular evolution of *Colubroidea* snake venoms.  
*Fourteenth World Congress on Animal, Plant and Microbial Toxins*, Abstract 12602, 2003.

**GIBBS, M.E., RODRICKS, C.L., CAMM, E.J. & SUMMERS, R.J.**

Involvement of catecholamines in memory impairment induced by prenatal hypoxia.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 158, 2003.

**GIBBS, M.E. & SUMMERS, R.J.**

Locus coeruleus involvement in memory formation.  
*Proceedings of the Australasian Neuroscience Society*, **24**, ORAL-03-08, 2003.

**GRESLE, M.M., JARROTT, B. & CALLAWAY, J.K.**

AM-36 reduces cerebral white matter damage in the endothelin-1 model of stroke in conscious rats.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-354, 2003.

**HALLS, M.L., BOND, C.P., BATHGATE, R.A. & SUMMERS, R.J.**

Characterisation of sites on the LGR7 (relaxin) and LGR3 (insulin3) receptors required for binding and signal transduction.  
*Proceedings of Molecular Pharmacology of G protein-coupled receptors*, Poster 6, 2003.

**HALLS, M.L., ROCHE, P.\* & SUMMERS, R.J.**

Characterisation of the signalling pathways of the LGR7 and LGR8 receptors.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 187, 2003.

**HODGSON, W.C.**

An *in vitro* and *in vivo* examination of the efficacy of antivenoms.

**HODGSON, W.C., STORY, M.E., LEWENBERG, M., FORTINGTON, L., LAWSON, C., ROUVRAY, J. & LIDDELL, M.**

Introduction to medical studies (IMS): a transition program for sponsored Malaysian international medical students.

*Seventh Pacific RIM conference*, 62, 2003.

**HODGSON, W.C., WICKRAMARATNA, J.C., RAMASAMY, S., LUMSDEN, N.G., NICHOLSON, G.M., FRY, B.G. & ISBISTER, G.K.**

The pharmacology of Australasian and South-East Asian animal venoms/toxins.

*Sixth Chinese Congress on Biological Toxins*, 11, 2003.

**INGRAM, N., VAN DEN BUUSE, M. & LOIACONO, R.E.**

Interaction between nicotine and clozapine on prepulse inhibition of sensory gating and brain nicotinic receptor levels in rat..

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-164, 2003.

**IRVINE, J.C., FAVALORO, J.L. & KEMP-HARPER, B.K.**

The nitroxyl anion (NO<sup>-</sup>) vasodilates rat small mesenteric arteries via the activation of soluble guanylate cyclase and voltage-dependent K<sup>+</sup> channels.

*Proceedings of the Eleventh Australian and New Zealand Microcirculation Symposium*, 50 (Oral 7.1), 2003.

**ISBISTER, G.**

Venom research : Does the clinician have a role?

*Korean Journal of Physiology and Pharmacology*, **7 Supplement 1**, Abstract S 18-02, 2003.

**KENNON, F.E. & LOIACONO, R.E.**

Expression of APP, secretase and  $\alpha 7$  nicotinic receptor mRNA in ApoE and C57 mice: effects of a high cholesterol diet and statin treatment.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-163, 2003.

**KING, R.G., CHAN, D. & VO, L.T.**

Effects of peppermint oil on rat liver and cultured human hepatoma cells.

*British Journal of Pharmacology*, **140**, 45P, 2003.

**KRAEHENBUEHL, T.L. & LAWRENCE, A.J.**

The endogenous opioid system and tolerance to the anti-drinking effects of acamprostate.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-341, 2003.

**KURUPPU, A., FRY, B.G. & HODGSON, W.C.**

Effect of antivenom on the in vivo neurotoxic and myotoxic actions of *Micropechis Ikaheka* venom.

*Fourteenth World Congress on Animal, Plant and Microbial Toxins*, Abstract 12501, 2003.

**LAU, C.L., BEART, P.M., ROTHSTEIN, J.D. & O'SHEA, R.D.**

Modulation of glutamate transporters and associated proteins in organotypic hippocampal cultures.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-THUR-134, 2003.

**LAWRENCE, A.J. & LODGE, D.J.**

Neurochemical effects of chronic CRF<sub>1</sub> receptor antagonism in isolation-reared fawn-hooded rats.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-339, 2003.

**LUMSDEN, N.G., FRY, B.G., KINI, R.M. & HODGSON, W.C.**

Smooth muscle activity of *Boiga* venoms.  
*Fourteenth World Congress on Animal, Plant and Microbial Toxins*, Abstract 12602, 2003.

**LUMSDEN, N.G., FRY, B.G., KINI, R.M. & HODGSON, W.C.**

The in vitro neurotoxicity of venoms from 'harmless' pet snakes.  
*Fourteenth World Congress on Animal, Plant and Microbial Toxins*, Abstract 12601, 2003.

**MCDUGALL, S.J., WIDDOP, R.E. & LAWRENCE, A.J.**

The role of the medial prefrontal cortex in stress induced cardiovascular responses.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-218, 2003.

**MCGREGOR, I.S., CLEMENS, K.J., LI, K.M., HUNT, G.E., CHEN, F. & LAWRENCE, A.J.**

Increased anxiety and altered 5-HT receptor and transporter density three months after brief low dose MDMA ("ecstasy") in rats.  
*Proceedings of the Australian Neuroscience Society*, **24**, ORAL-04-08, 2003.

**MILLER, S.L., RODRICKS, C.L., ROSE, I.A., JENKIN, G. & GIBBS, M.E.**

The effect of prenatal insults on cognitive function in day-old chicks.  
**30th Meeting of the fetal and neonatal Physiology Society**, 2003.

**NAGLEY, P., COSSINS, L.R., LUM, M.G. & BEART, P.M.**

Microscopic photosensitization of neuronal cells.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-091, 2003.

**NEVZOROVA, J., BENGTTSSON, T., HUTCHINSON, D., EVANS, B.A. & SUMMERS, R.J.**

$\beta_2$ -adrenoceptor mediated glucose transport in L6 myotubes involves receptor desensitization and coupling to G<sub>i</sub>.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 127, 2003.

**NEVZOROVA, J., BENGTTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

Signalling mechanisms mediating  $\beta_2$ -adrenoceptor stimulated glucose transport in L6 skeletal muscle myotubes.  
*Proceedings of Molecular Pharmacology of G protein- coupled receptors*, Poster 9, 2003.

**NEVZOROVA, J., EVANS, B.A. & SUMMERS, R.J.**

$\beta_2$ -adrenoceptor mediated increase in glucose transport in L6 cells does not involve activation of PKB and its inhibition by PKA.  
*Federation of European Biochemical Societies, Special Meeting on Signal Transduction*, Abstract 192, 2003.

**O'SHEA, R.D., ÀPRICO, K., CHEN, B., LAU, C.L. & BEART, P.M.**

Brain glutamate transporters: new pharmacological insights and therapeutic implications.  
*Proceedings of the Australian Neuroscience Society*, **24**, SYM-06-01, 2003.

- PATAK, E.N., FLEMING, A., STORY, M.E., CANDENAS, L. & PENNEFATHER, J.N.**  
Pregnancy-induced switch in receptor mediating the uterotonic effects of tachykinins in the mouse.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 123, 2003.
- PATAK, E.N., ZICCONI, S., PENNEFATHER, J.N., STORY, M.E., GROVER, S. & LILLEY, A.**  
Contribution of inflammatory mediators to the uterotonic effect of tachykinins on the human uterus.  
*Proceedings of the Australian Society for Biochemistry and Molecular Biology*, **35**, 169, 2003.
- POPP, B., CHRISTOPOULOS, A., EVANS, B.A. & SUMMERS, R.J.**  
Modulation of human  $\beta_1$ -adrenoceptor binding by  $Zn^{2+}$ .  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 200, 2003.
- RAMASAMY, S., FRY, B.G.\* & HODGSON, W.C.**  
The neurotoxic effects of seven black snake (*Pseudechis spp.*) venoms: efficacy of CSL black and CSL tiger snake venoms.  
*Korean Journal of Physiology and Pharmacology*, **7 Supplement 1**, Abstract P 26-09, 2003.
- RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E. & HODGSON, W.C.**  
In vivo examination of treatment strategies for box jellyfish (*Chironex Fleckeri*) envenoming: efficacy of box jellyfish antivenom (CSL) and magnesium sulphate.  
*Fourteenth World Congress on Animal, Plant and Microbial Toxins*, Abstract 12401, 2003.
- RAMASAMY, S., LAWRENCE, A.J., ISBISTER, G.K. & HODGSON, W.C.**  
Female *Nephila sp.* Spider crude venom contains a potent, reversible, non-competitive antagonist of post-synaptic nicotinic receptors.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-327, 2003.
- REMBACH, A., BRUCE, S., TURNER, B.J., CHEAH, I.W., SCOTT, R., LOPES, E.C., LANGFORD, S.J., BEART, P.M. & CHEEMA, S.S.**  
Developing a novel antisense therapy targeting Glutamate receptor subunit 3 (GluR3) in motor neuron disease.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-THU-162, 2003.
- RODRICKS, C.L., MILLER, S.L. & GIBBS, M.E.**  
The effect of prenatal hypoxia on memory formation in the chick.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 159, 2003.
- ROSE, I., GIBBS, M.E., RODRICKS, C., WALLACE, E., JENKIN, G. & MILLER, S.**  
Effects of developmental insults on the structure and function of the developing chick brain: role of activin?  
*Sereno Foundation for the advancement of medical science workshop on inhibins, activins and follistatins*, 2003.
- ROSE, I., GIBBS, M.E., RODRICKS, C., WALLACE, E., JENKIN, G. & MILLER, S.**  
Effects of developmental insults on the structure and function of the developing chick brain: role of activin?  
*Proceedings of the Perinatal Society of Australia and New Zealand, 17th National Workshop of fetal and neonatal Physiology*, A2, 2003.

**SATO, M., HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Agonist properties of  $\beta$ -adrenoceptor antagonists at  $\beta_3$ -adrenoceptors in the cytosensor microphysiometer.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 203, 2003.

**STAM, N.C., BEART, P.M., LEE, E., PIN, J.-P., PREZEAU, L. & CARROLL, F.Y.**

Molecular studies of allosteric modulation of the hetero-dimeric GABAB receptor.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 166, 2003.

**SUMMERS, R.J.**

The Janus faces of adrenoceptors.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **10**, 244, 2003.

**TAN, Y.Y., ANDERSON, D.G., GIBBS, M.E. & SUMMERS, R.J.**

Stimulation of relaxin receptors in chick brain causes consolidation of memory.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-327, 2003.

**WESTON, R.M., JARROTT, B. & CALLAWAY, J.K.**

Microglial activation is reduced by minocycline and AM-36 in a cold injury model of cortical injury in rats.  
*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-349, 2003.

**ZAGAMI, C.J., BEART, P.M. & O'SHEA, R.D.**

Effects of excitotoxicity and oxidative stress on glutamate transporter activity in murine mixed spinal cord cultures.

*Proceedings of the Australian Neuroscience Society*, **24**, POS-WED-133, 2003.

## PUBLICATIONS 2004

### CHAPTERS IN BOOKS 2004

#### **GIBBS, M.E. & SUMMERS, R.J.**

Adrenaline and noradrenaline.

*From Messengers to Molecules: Memories are made of these.*

Eds. Riedel, G. & Platt, B., Kluwer academic and Plenum publishers,  
Chapter 2.7, Pages 155-173, 2004.

### PAPERS 2004

#### **APRICO, K., BEART, P.M., CRAWFORD, D. & O'SHEA, R.D.**

Binding and transport of [<sup>3</sup>H](2*S*,4*R*)- 4- Methylglutamate, a new ligand for glutamate transporters, demonstrate labelling of EAAT1 in cultured murine astrocytes.

*Journal of Neuroscience Research*, **75**, 751-759, 2004. (Impact Factor 3.727)

#### **BOND, C.P., PARRY, L.J., SAMUEL, C.S., GEHRING, H.NM., LEDERMAN, F.L., ROGERS, P.A.W. & SUMMERS, R.J.**

Increased expression of the relaxin receptor (LGR7) in human endometrium during the secretory phase of the menstrual cycle.

*The Journal of Clinical Endocrinology and Metabolism*, **89**, 3477-3485, 2004. (Impact Factor 5.778)

#### **CALLAWAY, J.K., CASTILLO-MELENDEZ, M., GIARDINA, S.F., KRSTEW, E.K., BEART, P.M. & JARROTT, B.**

Sodium channel blocking activity of AM-36 and sipatrigine (BW619C89): in vitro and in vivo evidence.

*Neuropharmacology*, **47**, 146-155, 2004. (Impact Factor 3.734)

#### **CAMM, E.J., HARDING, R., LAMBERT, G.W. & GIBBS, M.E.**

The role of catecholamines in memory impairment in chicks following reduced gas exchange *in ovo*.

*Neuroscience*, **128**, 545 -553, 2004. (Impact Factor 3.456)

#### **CHEN, F. & LAWRENCE, A.J.**

Chronic antidepressant treatment causes a selective reduction of  $\mu$ -opioid receptor binding and functional coupling to G proteins in the amygdale of Fawn-hooded rats.

*The Journal of Pharmacology and Experimental Therapeutics*, **310**, 1020-1026, 2004.

(Impact Factor 4.335)

#### **CHETTY, N., DU, A., HODGSON, W.C., WINKEL, K. & FRY, B.G.**

The in vitro neuromuscular activity of Indo-Pacific seas-snake venoms: efficacy of two commercially available antivenoms.

*Toxicon*, **44**, 193-200, 2004. (Impact Factor 1.862)

#### **COWEN, M.S., CHEN, F. & LAWRENCE, A.J.**

Neuropeptides: implications for alcoholism.

*Journal of Neurochemistry*, **89**, 273-285, 2004. (Impact Factor 4.824)

#### **FAVALORO, J.L. & MCPHERSON, G.A.**

Vasorelaxation and hyperpolarisation of rat small mesenteric artery by the quaternary anion tetraphenylboron.  
*Naunyn-Schmiedeberg's Archives of Pharmacology*, **369**, 367-373, 2004. (Impact Factor 1.963)

**FEATHERBY, T. & LAWRENCE, A.J.**

Chronic cold stress regulates ascending noradrenergic pathways.  
*Neuroscience*, **127**, 949-960, 2004. (Impact Factor 3.456)

**GIACOBINI, P., KOPIN, A.S., BEART, P.M., MERCER, L.M., FASOLO, A. & WRAY, S.**

Cholecystokinin modulates migration of gonadotropin-releasing hormone-1 neurons.  
*The Journal of Neuroscience*, **24**, 4737-4748, 2004. (Impact Factor 7.907)

**GIBBS, M.E., HERTZ, L. & NG, K.T.**

Inhibition of short-term memory formation in the chick by blockade of extracellular glutamate uptake.  
*Neurobiology of Learning and Memory*, **81**, 115-119, 2004. (Impact Factor 4.443)

**GUDE, N.M., ROBERTS, C.T., KALIONIS, B. & KING, R.G.**

Growth and function of the normal human placenta.  
*Thrombosis Research*, **114**, 397-407, 2004. (Impact Factor 1.541)

**HANNAN, R.E., GASPARI, T.A., DAVIS, E.A. & WIDDOP, R.E.**

Differential regulation by AT<sub>1</sub> and AT<sub>2</sub> receptors of angiotensin II-stimulated cyclic GMP production in rat uterine artery and aorta.  
*British Journal of Pharmacology*, **141**, 1024-1031, 2004. (Impact Factor 3.325)

**HANNAN, R.E. & WIDDOP, R.E.**

Vascular angiotensin II actions mediated by angiotensin II type 2 receptors.  
*Current Hypertension Reports*, **6**, 117-123, 2004. (Impact Factor 2.488)

**HENDERSON, D.J., EBERL, S., THOMSON, S., SMITH, A., ALLAN, R.D., FULHAM, M.J., LOIACONO, R.E. & KASSIOU, M.**

3-Pyridyl ethers as SPECT radioligands for imaging nicotinic acetylcholine receptors.  
*Applied Radiation and Isotopes*, **60**, 669-676, 2004. (Impact Factor 1.000)

**HERTZ, L., CHEN, Y., GIBBS, M.E., ZANG, P. & PENG, L.**

Astrocytic adrenoceptors: a major drug target in neurological and psychiatric disorders?  
*Current Drug Targets – CNS and Neurological Disorders*, **3**, 239-268, 2004. (Impact Factor 4.104)

**JONES, E.S., BLACK, M.J.\* & WIDDOP, R.E.**

Angiotensin AT<sub>2</sub> receptor contributes to cardiovascular remodeling of aged rats during chronic AT<sub>1</sub> receptor blockade.  
*Journal of Molecular and Cellular Cardiology*, **37**, 1023-1030, 2004. (Impact Factor 4.198)

**JOSEPH, R., PAHARI, S., HODGSON, W.C. & KINI, R.M.**

Hypotensive agents from snake venom.  
*Current Drug Targets – Cardiovascular and Haematological Disorders*, **4**, 437-459, 2004. (Impact Factor 4.104)

**LI, X.C. & WIDDOP, R.E.**

AT<sub>2</sub> receptor-mediated vasodilation is unmasked by AT<sub>1</sub> receptor blockade in conscious SHR.

*British Journal of Pharmacology*, **142**, 821-830, 2004. (Impact Factor 3.325)

**LUMSDEN, N.G., FRY, B.G., KINI, R.M. & HODGSON, W.C.**

In vitro neuromuscular activity of 'colubrid' venoms: clinical and evolutionary implications.  
*Toxicon*, **43**, 819-827, 2004. (Impact Factor 1.862)

**LUMSDEN, N.G., FRY, B.G., VENTURA, S., KINI, R.M. & HODGSON, W.C.**

The *in vitro* and *in vivo* pharmacological activity of *Boiga dendrophila* (mangrove catsnake) venom.  
*Autonomic and Autacoid Pharmacology*, **24**, 107-113, 2004. (No Impact Factor)

**MA, S., STORY, M.E. & PENNEFATHER, J.N.**

Muscarinic receptors mediating contraction of female mouse urinary bladder: effects of oestrogen.  
*European Journal of Pharmacology*, **487**, 205-211, 2004. (Impact Factor 2.432)

**MCDUGALL, S.J., WIDDOP, R.E. & LAWRENCE, A.J.**

Medial prefrontal cortical integration of psychological stress in rats.  
*European Journal of Neuroscience*, **20**, 2430-2440, 2004. (Impact Factor 3.820)

**MERCER, L.D. & BEART, P.M.**

Immunolocalization of CCK<sub>1</sub>R in rat brain using a new anti-peptide antibody.  
*Neuroscience Letters*, **359**, 109-113, 2004. (Impact Factor 2.019)

**POPP, B.D., HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Stereoselectivity for interactions of agonists and antagonists at mouse, rat and human  $\beta_3$ - adrenoceptors.  
*European Journal of Pharmacology*, **484**, 323-331, 2004. (Impact Factor 2.432)

**RAMASAMY, S., ISBISTER, G.K. & HODGSON, W.C.**

The efficacy of two antivenoms against the *in vitro* myotoxic effects of black snake (*Pseudechis*) venoms in the chick biventer cervicis nerve-muscle preparation.  
*Toxicon*, **44**, 837-845, 2004. (Impact Factor 1.862)

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E.\* & HODGSON, W.C.**

The *in vivo* cardiovascular effects of box jellyfish *Chironex fleckeri* venom in rats: efficacy of pre-treatment with antivenom, verapamil and magnesium sulphate.  
*Toxicon*, **43**, 685-690, 2004. (Impact Factor 1.862)

**RODRICKS, C.L.\*, ROSE, I.A.\*, CAMM, E.J.\* JENKIN, G.\*, MILLER, S.L.\* & GIBBS, M.E.**

The effect of prenatal hypoxia and malnutrition on memory consolidation in the chick.  
*Developmental Brain Research*, **148**, 113-119, 2004. (Impact Factor 1.854)

**ROULSTON, C.L., LAWRENCE, A.J., JARROTT, B. & WIDDOP, R.E.**

Non-angiotensin II [<sup>125</sup>I]CGP42112 binding is a sensitive marker of neuronal injury in brainstem following unilateral nodose ganglionectomy: comparison with markers for activated microglia.  
*Neuroscience*, **127**, 753-767, 2004. (Impact Factor 3.456)

**SAMUEL, C.S., ZHAO, C., BOND, C.P., HEWITSON, T.D., AMENTO, E.P. & SUMMERS, R.J.**

Relaxin-1-deficient mice develop an age-related progression of renal fibrosis.  
*Kidney International*, **65**, 2054-2064, 2004. (Impact Factor 4.790)

**SNELL, B.J., DAY, A., LEDENT, C. & LAWRENCE, A.J.**

[3H]Adenosine uptake in brainstem membranes of CD-1 mice lacking the adenosine A<sub>2a</sub> receptor.  
*Life Sciences*, **75**, 225-235, 2004. (Impact Factor 2.158)

**SUMMERS, R.J., BROXTON, N., HUTCHINSON, D.S. & EVANS, B.A.**

The Janus faces of adrenoceptors: factors controlling the coupling of adrenoceptors to multiple signal transduction pathways.

*Clinical and Experimental Pharmacology and Physiology*, **31**, 822-827, 2004. (Impact Factor 1.672)

**WICKRAMARATNA, J.C., FRY, B.G., LOIACONO, R.E., AGUILAR, M.-I., ALEWOOD, P.F. & HODGSON, W.C.**

Isolation and characterization at cholinergic nicotinic receptors of a neurotoxin from the venom of the *Acanthophis* sp. Seram death adder.

*Biochemical Pharmacology*, **68**, 383-394, 2004. (Impact Factor 3.436)

**LETTERS TO THE EDITOR      2004**

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E. & HODGSON, W.C.**

Verapamil treatment in severe *Chironex fleckeri* stings.  
*Toxicon*, **43**, 819-820, 2004.

**ABSTRACTS      2004**

**ANDERSON, D.G., GIBBS, M.E. & SUMMERS, R.J.**

$\beta_1$  and  $\beta_2$  – adrenoceptor distribution in the day old chick brain.  
*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 129 (Pos-Wed-321), 2004.

**APOSTOLOPOULOS, J.M., FAVALORO, J.L. & KEMP-HARPER, B.K.**

The role of the nitroxyl (NO) as an endothelium-derived vasodilator in the vasculature.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 11 (Poster 1), 2004.

**BATHGATE, R.A., HSUEH, A.J., IVELL, R., SANBORN, B.M., SHERWOOD, O.D. & SUMMERS, R.J.**

International Union of Pharmacology receptor nomenclature committee. Receptors for relaxin and relaxin-related peptides.  
*Fourth International Conference on relaxin and related peptides*, 20 (Abstract O-12), 2004.

**BOND, C.P., DANG, T., DUSTING, G.J. & DRUMMOND, G.R.**

Vasocontractions to NADPH in mouse isolated aorta occur independently of activation of NADPH oxidase: role of P<sub>2X</sub>-purinoceptors.  
*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 6 (Oral 12), 2004.

**BOND, C.P., PARRY, L.J., SAMUEL, C.S., GEHRING, H.M., LEDERMAN, F.L., ROGERS, P.A.W. & SUMMERS, R.J.**

Increased expression of the RLX receptor (LGR7) in human endometrium during the secretory phase of the menstrual cycle.  
*Fourth International Conference on relaxin and related peptides*, 39 (Abstract O-18), 2004.

**BROWN, L. & LOIACONO, R.E.**

Regulation of H3 receptor mRNA expression in animal models of Parkinsons disease.  
*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 139 (Pos-Wed-361), 2004.

**BROXTON, N.M., EVANS, B.A. & SUMMERS, R.J.**

$\alpha_{1A}$ -adrenoceptor isoforms display different signaling profiles following agonist stimulation.  
*Proceedings British Pharmacological Society*, Abstract P017, 2004.

**D'AMORE, A., JONES, E.S., WIDDOP, R.E. & BLACK, M.J.**

Effect of AT1 and AT2 receptor antagonism on capillarisation in hypertensive hearts.  
*Cardiovascular Pharmacology*, **13 Supplement 3S**, S168 (Abstract P474), 2004.

**DJOUMA, E. & LAWRENCE, A.J.**

Dissociation between anti-craving and anti-depressant properties of the NK1 antagonist, L-733 060.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 144 (Pos-Wed-381), 2004.

**DRUMMOND, G.R., SELEMIDIS, S., HICKEY, H. & DUSTING G.J.**

Vascular NADPH oxidase: a potential therapeutic target in atherosclerosis.

*Clinical and Experimental Pharmacology and Physiology*, **31 Supplement 1**, A18 (Abstract SY060), 2004.

**EVANS, B.A., BROXTON, N.M. & SUMMERS, R.J.**

Differential signaling properties of human  $\alpha 1A$ -adrenoceptor splice variants.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 18 (Poster 16), 2004.

**FAVALORO, J.L. & KEMP-HARPER, B.K.**

Nitric oxide (NO) and the nitroxyl anion (NO<sup>-</sup>) cause relaxation of rat mesenteric artery by distinct mechanisms.

*Clinical and Experimental Pharmacology and Physiology*, **31 Supplement 1**, A191 (Abstract PO-539), 2004.

**FAVALORO, J.L. & KEMP-HARPER, B.K.**

Nitric oxide (NO) and the nitroxyl anion (NO<sup>-</sup>) cause relaxation of rat mesenteric artery by distinct mechanisms.

*Eighth International Symposium on Resistance Arteries*, 15 (Abstract 1-5), 2004.

**FAVALORO, J.L. & KEMP-HARPER, B.K.**

Identification of the nitroxyl anion as a coronary vasodilator.

*Journal of Molecular and Cellular Cardiology*, **37**, 198 (Abstract A108), 2004.

**FEATHERBY, T. & LAWRENCE, A.J.**

Chronic cold stress and central noradrenergic systems.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 114 (Pos-Wed-261), 2004.

**GIBBS, M.E., ANDERSON, D.G. & SUMMERS, R.J.**

Signalling pathways involved in  $\beta$ -adrenoceptor stimulated glucose uptake in astrocytes.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 4 (Oral 7), 2004.

**GIBBS, M.E. & SUMMERS, R.J.**

Communication between basal ganglia and association cortex in memory processing: role of noradrenaline.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 24 (Oral 03-06), 2004.

**HALLS, M.L., BATHGATE, R.A., BOND, C.P. & SUMMERS, R.J.**

Identification of binding sites with differing affinity and potency for relaxin analogues on LGR7 and LGR8 receptors.

*Fourth International Conference on relaxin and related peptides*, 17 (Abstract O-09), 2004.

**HALLS, M.L., BATHGATE, R.A., ROCHE, P.\* & SUMMERS, R.J.**

Signalling pathways of the LGR7 and LGR8 receptors determined using reporter genes.

*Fourth International Conference on relaxin and related peptides*, 68 (Abstract P-27), 2004.

**HALLS, M.L., BATHGATE, R.A. & SUMMERS, R.J.**

Signal switching following stimulation of LGR7 receptors by human relaxin 2.

*Fourth International Conference on relaxin and related peptides*, 67 (Abstract P-26), 2004.

**HALMOS, L.R., SELEMIDIS, S., DRUMMOND, G.R.**

A role for NADPH oxidase in superoxide production and proliferation in human endothelial cells.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 12 (Poster 3), 2004.

**HODGSON, W.C. & WICKRAMARATNA, J.C.**

Pharmacological characterization of Toxins from death adder (*Acanthopis*) venoms.

*Eighth Symposium of the Pan American Society on Toxinology*, 192 (Abstract P255), 2004.

**HUTCHINSON, D.S., SATO, M., EVANS, B.A., CHRISTOPOULOS, A. & SUMMERS, R.J.**

Evidence for pleotropic signalling at the mouse  $\beta_3$ -adrenoceptor revealed by SR59230A.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 18 (Poster 15), 2004.

**INGRAM, N., VAN DEN BUUSE, M. & LOIACONO, R.E.**

Effect of nicotine and antipsychotic drugs on pre-pulse inhibition in rats.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 145 (Pos-Wed-387), 2004.

**IRVINE, J.C., KEMP-HARPER, B.K. & WIDDOP, R.E.**

The nitroxyl anion (NO<sup>-</sup>) donor, Angeli's salt, does not develop tolerance in rat isolated aortae.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 3 (Oral 5), 2004.

**IRVINE, J.C., KEMP-HARPER, B.K. & WIDDOP, R.E.**

The nitroxyl anion (NO<sup>-</sup>) donor, Angeli's salt, does not develop tolerance in rat isolated aortae.

*Proceedings of the Australian Clinical and Experimental Second Australian Health and Medical Research Congress*, 291 (Abstract 1352), 2004.

**JONES, E.S., BLACK, M.J. & WIDDOP, R.E.**

Angiotensin AT<sub>2</sub> receptor contributes to cardiovascular remodelling of aged SHR during chronic AT<sub>1</sub> receptor blockade.

*Proceedings of the Second Australian Health and Medical Research Congress*, 292 (Abstract 1356), 2004.

**JONES, E.S., BLACK, M.J. & WIDDOP, R.E.**

Angiotensin AT<sub>2</sub> receptor contributes to cardiovascular remodelling of aged SHR during chronic AT<sub>1</sub> receptor blockade.

*Journal of Molecular and Cellular Cardiology*, **37**, 251-2 (Abstract B131), 2004.

**JONES, E.S., BLACK, M.J. & WIDDOP, R.E.**

Angiotensin AT<sub>2</sub> receptor contributes to cardiovascular remodelling of aged SHR during chronic AT<sub>1</sub> receptor blockade.

*Aging heart and vessels, Satellite to World Congress of International Society For Heart research*, Poster ix, 2004.

**JONES, E.S., BLACK, M.J. & WIDDOP, R.E.**

Cardiovascular remodeling of aged rats during chronic AT<sub>1</sub> receptor blockage involves AT<sub>2</sub> receptors.

*Journal of Molecular and Cellular Cardiology*, **37**, 252 (Abstract B130), 2004.

**JONES, E.S., BLACK, M.J.\* & WIDDOP, R.E.**

Cardiovascular remodeling of aged rats during chronic AT<sub>1</sub> receptor blockage involves AT<sub>2</sub> receptors.  
*Aging heart and vessels, Satellite to World Congress of International Society For Heart research, Poster viii, 2004.*

**KEMP-HARPER, B.K., ANDREWS, K.L., APOSTOLOPOULOS, J., FAVALORO, J.L. & TRIGGLE, C.**

Identification of the nitroxyl anion (NO<sup>-</sup>) as an endothelium-derived vasodilator in mouse small mesenteric arteries.

*Proceedings of the Second Australian Health and Medical Research Congress, 162 (Abstract 502), 2004.*

**KENNON, F. & LOIACONO, R.E.**

Effects of a high cholesterol diet and statin treatment on  $\alpha 7nACh$  expression in ApoE deficient and C57 mice.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting, 145 (Pos-Thurs-388), 2004.*

**KRAEHENBUEHL, T.L. & LAWRENCE, A.J.**

A monoclonal amphetamine antibody alters persistent amphetamine-induced changes in alcohol consumption in FH rats.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting, 129 (Pos-Thu-324), 2004.*

**KURUPPU, S., FRY, B.G. & HODGSON, W.C.**

Pharmacological examination of the venom from the brown headed snake *Furina Tristis*.

*Eighth Symposium of the Pan American Society on Toxinology, 191 (Abstract P254), 2004.*

**KURUPPU, S., HODGSON, W.C. & FRY, B.G.**

Pharmacological examination of the venom from the black whip snake *Demansia Papuensis*.

*Proceedings of the Second Australian Health and Medical Research Congress, 327 (Abstract 1521), 2004.*

**LUMSDEN, N.G., FRY, B.G., VENTURA, S., KINI, R.M. & HODGSON, W.C.**

The *in vitro* and *in vivo* pharmacological activity of *Boiga dendophila* venom.

*Eighth Symposium of the Pan American Society on Toxinology, 191 (Abstract P253), 2004.*

**MCDUGALL, S.J., WIDDOP, R.E. & LAWRENCE, A.J.**

A role for the medial prefrontal cortex in the central control of the stress response.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting, 119 (Pos-Thu-284), 2004.*

**MILLER, A.A., DRUMMOND, G.R. & SOBEY, C.G.**

NADPH-oxidase activity and function is enhanced in the cerebral circulation.

*Proceedings of the Second Australian Health and Medical Research Congress, 163 (Abstract 505), 2004.*

**MILLER, A.A., DRUMMOND, G.R. & SOBEY, C.G.**

NADPH-oxidase activity and function is lower in the female cerebral circulation.

*Proceedings of the Second Australian Health and Medical Research Congress, 320 (Abstract 1500), 2004.*

**NEVZOROVA, J., BENGTSSON, T., EVANS, B.A. & SUMMERS, R.J.**

$\beta_2$ -adrenoceptor mediated increases in glucose transport in L6 skeletal muscle cells involves coupling to both Gs and Gi.

*Proceedings British Pharmacological Society, Abstract P015, 2004.*

**PARAVICINI, T.M., DRUMMOND, G.R. & SOBEY, C.G.**

Flow-induced cerebral vasodilatation involves activation of P13-kinase and production of reactive oxygen species.

*Proceedings of the Second Australian Health and Medical Research Congress*, 163 (Abstract 506), 2004.

**POPP, B.D., EVANS, B.A. & SUMMERS, R.J.**

The molecular basis for the atypical  $\alpha$ -adrenoceptor pharmacology of CGP121774A.

*Journal of Molecular and Cellular Cardiology*, **37**, 313-314 (Abstract S19A), 2004.

**PORRITT, M.J., EVANS, B.A. & SUMMERS, R.J.**

Signalling properties of human  $\beta_1$ -adrenoceptors containing single nucleotide polymorphisms.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 19 (Poster 18), 2004.

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E. & HODGSON, W.C.**

Pharmacologically distinct cardiovascular actions of box jellyfish (*Chironex fleckeri*) venom and a tentacle-only extract in rats.

*Eighth Symposium of the Pan American Society on Toxinology*, 190 (Abstract P251), 2004.

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.E. & HODGSON, W.C.**

The in vivo cardiovascular effects of the Irukandji jellyfish (*Carukia barnesi*) nematocyst venom and a tentacle-only extract in rats.

*Eighth Symposium of the Pan American Society on Toxinology*, 190 (Abstract P252), 2004.

**RODRICKS, C.L., GIBBS, M.E. & MILLER, S.L.**

The timing of prenatal insults determines memory impairment.

*The 18th National Workshop on Fetal and Neonatal Physiology*, Abstract A2, 2004.

**RODRICKS, C.L., GIBBS, M.E. & MILLER, S.L.**

Prenatal hypoxia affects the functional and structural development of the chick brain.

*31st Annual Meeting of the Fetal and Neonatal Physiological Society*, 70 Abstract 83, 2004.

**RODRICKS, C.L., MILLER, S.L. & GIBBS, M.E.**

Hormonal responsibility for prenatal hypoxic cognitive deficits in the chick.

*Perinatal Society of Australia and New Zealand, 8<sup>th</sup> Annual Congress*, A40, 2004.

**RODRICKS, C.L., MILLER, S.L. & GIBBS, M.E.**

Hypoxia *in ovo* and cognitive impairment: stressed or malnourished.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 126 (Pos-Wed-311), 2004.

**SAMUEL, C.S., ZHAO, C., BATHGATE, R.A.D., DU, X.-J., SUMMERS, R.J., AMENTO, E.P., ZHAO, L. & TREGGAR, G.W.**

The relaxin-1 gene-knockout mouse: a model of progressive fibrosis.

*Fourth International Conference on relaxin and related peptides*, 46 (Abstract 0-25), 2004.

**SATO, M., HUTCHINSON, D.S., EVANS, B.A. & SUMMERS, R.J.**

Functional domains of the mouse  $\beta_3$ -adrenoceptor associated with differential G protein coupling.

*Eighth World Congress on Clinical Pharmacology and Therapeutics*, 2004.

**TYBURA, K.L., KEMP-HARPER, B.K. & FAVALORO, J.L.**

The role of NO as a coronary vasodilator.

*Proceedings of the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists*, **11**, 13 (Poster 5), 2004.

**VINH, A., GASPARI, T. & WIDDOP, R.E.**

Angiotensin IV-evoked modulation of endothelial dysfunction in APOE-deficient mice.

*Proceedings of the Second Australian Health and Medical Research Congress*, 163 (Abstract 504), 2004.

**VINH, A., GASPARI, T. & WIDDOP, R.E.**

Influence of angiotensin peptides on endothelial status in aged APOE – deficient mice.

*Aging heart and vessels, Satellite to World Congress of International Society For Heart research*, Poster x, 2004.

**WALTERS, P.E., GASPARI, T. & WIDDOP, R.E.**

Modulation of AT2R mediated haemodynamic effects in conscious SHR.

*Proceedings of the Second Australian Health and Medical Research Congress*, 302 (Abstract 1383), 2004.

**WESTON, R.M., CALLAWAY, J.K. & JARROTT, B.**

Am-36 and minocycline decrease recovery time in a reversible spinal cord injury model in rats.

*Proceedings of the Australian Neuroscience Society, 24th Annual Meeting*, 141 (Pos-Wed-371), 2004.

**ZULLI, A., WIDDOP, R.E., BURRELL, L.M., BUXTON, B.F. & HARE, D.L.**

The markers of embryonic stem cells are present in diseased human blood vessels.

*Heart, Lung and Circulation*, **13 Supplement 2**, S121 (Abstract 287), 2004.

**ZUMPE, E.T., SEXTON, P.M., BATHGATE, R.A. & SUMMERS, R.J.**

Signalling pathways of the human relaxin-3 receptor GPCR135.

*Fourth International Conference on relaxin and related peptides*, 76 (Abstract 0-44), 2004.

## PUBLICATIONS 2005

**CAMM, E.J.\*, GIBBS, M.E., HARDING, R.\*, MULDER, T.\* & REES, S.M.\***

Prenatal hypoxia impairs memory function but does not result in overt structural alterations in the postnatal chick brain

*Developmental Brain Research*, **160**, 9-18, 2005. (Impact Factor 1.854)

**CAO, A.H., VO, L.T. & KING, R.G.**

Honokiol protects against carbon tetrachloride induced liver damage in the rat.

*Phytotherapy Research*, **19**, 932-937, 2005. (Impact Factor 0.975)

**COWEN, M.S.\*, ADAMS, C., KRAEHENBUEHL, T., VENGELIENE, V.\* & LAWRENCE, A.J.\***

The acute anti-craving effect of acamprosate in alcohol-preferring rats is associated with modulation of the mesolimbic dopamine system.

*Addiction Biology*, **10**, 233-242, 2005. (Impact Factor 1.846)

**COWEN, M.S., DJOUMA, E. & LAWRENCE, A.J.**

The metabotropic glutamate 5 receptor antagonist 3-[(2-methyl-1,3-thiazol-4-yl)ethynyl]-pyridine reduces ethanol self-administration in multiple strains of alcohol-preferring rats and regulates olfactory glutamatergic systems.

*Journal of Pharmacology and Experimental Therapeutics*, **315**, 590-600, 2005. (Impact Factor 4.335)

**DIKALOVA, A.\*, CLEMPUS, R.\*, LASSÈGUE, B.\*, CHENG, G.\*, MCCOY, J.\*, DIKALOV, S.\*, SAN MARTIN, A.\*, LYLE, A.\*, WEBER, D.S.\*, WEISS, D.\*, TAYLIR, W.R.\*, SCHMIDT, H.H.H.W., OWENS, G.K.\*, LAMBERT, J.D.\* & GRIENGLING, K.K.\***

Nox1 overexpression potentiates angiotensin II-induced hypertension and vascular smooth muscle hypertrophy in transgenic mice.

*Circulation*, **112**, 2668-2676, 2005. (Impact Factor 11.164)

**DUKE, L.M., EVANS, R.G.\* & WIDDOP, R.E.**

AT<sub>2</sub> receptors contribute to acute blood pressure-lowering and vasodilator effects of AT<sub>1</sub> receptor antagonism in conscious normotensive but not hypertensive rats.

*American Journal of Physiology – Heart and Circulatory Physiology*, **288**, H2289-H2297, 2005.

(Impact Factor 3.658)

**DUKE, L.M., WIDDOP, R.E., KETT, M.M.\* & EVANS, R.G.\***

AT<sub>2</sub> receptors mediate tonic renal medullary vasoconstriction in renovascular hypertension.

*British Journal of Pharmacology*, **144**, 486-492, 2005. (Impact Factor 3.611)

**FITZGERALD, S.M.\*, KEMP-HARPER, B.K., TARE, M.\* & PARKINGTON, H.C.**

Role of Endothelium-derived hyperpolarizing factor in endothelial dysfunction during diabetes.

*Clinical and Experimental Pharmacology and Physiology*, **32**, 482-487, 2005. (Impact Factor 1.744)

**FRY, B.G.\*, WICKRAMARATNA, J.C., LEMME, S.\*, BEUVE, A.\*, GARBERS, D.\*, HODGSON, W.C. & ALEWOOD, P.\***

Novel natriuretic peptides from the venom of the inland taipan (*Oxyuranus microlepotus*): isolation, chemical and biological characterisation.

*Biochemical and Biophysical Research Communications*, **327**, 1011-1015, 2005. (Impact Factor 2.836)

**GIBBS, M.E. & HERTZ, L.\***

Importance of glutamate-generating metabolic pathways for memory consolidation in chicks.  
*Journal of Neuroscience Research*, **81**, 293-300, 2005. (Impact Factor 3.374)

**GIBBS, M.E. & JOHNSTON, G.A.R.\***

Opposing roles for GABA<sub>A</sub> and GABA<sub>C</sub> receptors in short-term memory formation in young chicks.  
*Neuroscience*, **131**, 567-576, 2005. (Impact Factor 3.601)

**GIBBS, M.E. & SUMMERS, R.J.**

Contrasting roles for  $\beta_1$ ,  $\beta_2$ , and  $\beta_3$  adrenoceptors in memory formation in the chick.  
*Neuroscience*, **131**, 31-42, 2005. (Impact Factor 3.601)

**GUDE, N.M.\*, STEVENSON, J.L.\*, MURTHI, P.\*, ROGERS, S.\*, BEST, J.D.\*, KALIONIS, B.\* & KING, R.G.**

Expression of GLUT12 in the fetal membranes of the human placenta.  
*Placenta*, **26**, 67-72, 2005. (Impact Factor 2.706)

**HALLS, M.L., BOND, C.P., SUDO, S.\*, KUMAGAI, J.\*, FERRARO, T.\*, LAYFIELD, S.\*, BATHGATE, R.A.D.\* & SUMMERS, R.J.**

Multiple binding sites revealed by interaction of relaxin family peptides with native and chimeric relaxin family peptide receptors 1 and 2 (LGR7 & LGR8).  
*Journal of Pharmacology and Experimental Therapeutics*, **313**, 677-687, 2005. (Impact Factor 4.337)

**HART, A.J., SMITH, A.I.\*, REEVE, S.\* & HODGSON, W.C.**

Isolation and characterisation of acanmyotoxin-2 and acanmyotoxin-3, myotoxins from the venom of the death adder *Acanthophsis* sp. seram  
*Biochemical Pharmacology*, **70**, 1807-1813. (Impact Factor 3.436)

**HUTCHINSON, D.S., SATO, M., EVANS, B.A., CHRISTOPOULOS, A.\* & SUMMERS, R.J.**

Evidence for pleiotropic signaling at the mouse  $\beta_3$ -adrenoceptor revealed by SR59230A [3-(2-Ethylphenoxy)-1-[(1S)-1,2,3,4-tetrahydronaph-1-ylamino]-2S-2-propanol Oxalate].  
*The Journal Of Pharmacology and Experimental Therapeutics*, **312**, 1064-1074, 2005. (Impact Factor 4.337)

**INGRAM, N.\*, MARTIN, S.\*, WANG, J.H.\*, VAN DER LAAN, S.\*, LOIACONO, R.E. & VAN DEN BUUSE, M.\***

Interaction of corticosterone and nicotine in regulation of prepulse inhibition in mice.  
*Neuropharmacology*, **48**, 80-92, 2005. (Impact Factor 3.801)

**KAIRUZ, E.M.\*, BARBER, M.N., ANDERSON, C.R.\*, KANAGASUNDARAM, M.\*, DRUMMOND, G.R. & WOODS, R.L.\***

C-type natriuretic peptide (CNP) suppresses plasminogen activator inhibitor-1 (PAI-1) in vivo.  
*Cardiovascular Research*, **66**, 574-582, 2005. (Impact Factor 5.164)

**KIRCHENGAST, M.\*, WITTE, K.\*, STOLPE, K.\*, SCHILLING, L.\*, NEDVETSKY, P.I.\*, SCHMIDT, H.H.H.W. & LEMMER, B.\***

Effects of chronic endothelin ET<sub>A</sub> receptor blockade on blood pressure and vascular formation of cyclic guanosine-3',5'-monophosphate in spontaneously hypertensive rats.  
*Arzneimittel-Forschung Drug Research*, **55**, 498-504, 2005. (Impact factor 0.654)

**KURUPPU, S., FRY, B.G.\* & HODGSON, W.C.**

Presynaptic neuromuscular activity of venom from the brown-headed snake (*Glyphodon Tristis*).  
Department of Pharmacology, Monash University

*Toxicon*, **45**, 383-388, 2005. (Impact Factor 2.020)

**KURUPPU, S., ISBISTER, G.K. & HODGSON, W.C.**

Phospholipase A<sub>2</sub>-dependent effects of the venom from the New Guinea small-eyed snake *Micropechis Ikaheka*.

*Muscle and Nerve*, **32**, 81-87, 2005. (Impact Factor 2.432)

**KURUPPU, S., REEVE, S.\*, SMITH, A.\* & HODGSON, W.C.**

Isolation and pharmacological characterisation of papuatoxin-1, a postsynaptic neurotoxin from the venom of the Papuan black snake (*Pseudechis Papuanus*).

*Biochemical Pharmacology*, **70**, 794-800, 2005. (Impact factor 3.436)

**KURUPPU, S., REEVE, S.\*, BANERJEE, Y.\*, KINI, R.M.\*, SMITH, A.I.\* & HODGSON, W.C.**

Isolation and pharmacological characterisation of cannitoxin, a presynaptic neurotoxin from the venom of the Papuan taipan (*Oxyuranus scutellatus canni*).

*Journal of Pharmacology and Experimental Therapeutics*, **315**, 1196-1202, 2005. (Impact Factor 4.337)

**LAUDE, K.\*, CAI, S., FINK, B.\*, HOCH, N.\*, WEBER, D.S.\*, MCCANN, L.\*, KOJDA, G.\*, FUKAI, T.\*, SCHMIDT, H.H.H.W., DIKALOV, S.\*, RAMASAMY, S.\*, GAMEZ, G.\*, GRIENGLING, K.K.\* & HARRISON, D.G.\***

Hemodynamic and biochemical adaptations to vascular smooth muscle overexpression of p22<sup>phox</sup> in mice  
*American Journal of Physiology, Heart and Circulatory Physiology*, **288**, H7-H12, 2005. (Impact Factor 3.539)

**LAWRENCE, A.J.\*, PARISH, C.L.\*, CHEN, F.\*, LODGE, D.J., KRSTEW, E.V.\*, CARD, K., FINKELSTEIN, D.I. & HORNE, M.K.\***

Chronic corticotropin-releasing factor type 1 receptor antagonism with antalarmin regulates the dopaminergic system of fawn-hooded rats.

*Journal of Neurochemistry*, **94**, 1523-34, 2006. (Impact Factor 4.604)

**LUMSDEN, N.G., FRY, B.G.\*, VENTURA, S.\*, KINI, R.M.\* & HODGSON, W.C.**

Pharmacological characterisation of a neurotoxin from the venom of *Boiga Dendrophila* (mangrove catsnake).

*Toxicon*, **45**, 329-334, 2005. (Impact Factor 2.020)

**LUMSDEN, N.G., VENTURA, S.\*, DAUER, R.\* & HODGSON, W.C.**

A biochemical and pharmacological examination of *Rhamphiophis Oxyrhynchus* (rufous beaked snake) venom.

*Toxicon*, **45**, 219-231, 2005. (Impact Factor 2.020)

**MATTER, H.\*, KUMAR, H.S.\*, FEDOROV, R.\*, FREY, A.\*, KOTSONIS, P.\*, HARTMANN, E.\*, FROHLICH, L.G.\*, REIF, A.\*, PFLEIDERER, W.\*, SCHEURER, P.\*, GHOSH, D.K.\*, SCHLICHTING, I.\* & SCHMIDT, H.H.H.W.**

Structural analysis of isoform-specific inhibitors targeting the tetrahydrobiopterin binding site of human nitric oxide synthases.

*Journal of Medicinal Chemistry*, **48**, 4783-4792, 2005. (Impact factor 5.076)

**MCDUGALL, S., LAWRENCE, A.J. & WIDDOP, R.E.**

Differential cardiovascular responses to stressors in hypertensive and normotensive rats.

*Experimental Physiology*, **90**, 141-150, 2005. (Impact Factor 1.220)

**MCDUGALL, S.J.\*, WIDDOP, R.E. & LAWRENCE, A.J.\***

Central autonomic integration of psychological stressors: focus on cardiovascular modulation.  
*Autonomic Neuroscience: Basic and Clinical*, 123, 1-11, 2005. **(Impact Factor 1.311)**

**MCDUGALL, S., WIDDOP, R.E. & LAWRENCE, A.J.**

Differential gene expression in WKY and SHR brain following acute and chronic air-puff stress.  
*Molecular Brain Research*, 133, 329-336, 2005. **(Impact Factor 2.107)**

**MERCER, L.D., KELLY, B., HORNE, M.K. & BEART, P.M.**

Dietary polyphenols protect dopamine neurons from oxidative insults and apoptosis: investigations in primary rat mesencephalic cultures.  
*Biochemical Pharmacology*, 69, 339-345, 2005. **(Impact Factor 2.993)**

**MILLER, A.A.\*; DRUMMOND, G.R.; SCHMIDT, H.H.H.W. & SOBEY, C.G.\***

NADPH Oxidase Activity and Function Are Profoundly Greater in Cerebral Versus Systemic Arteries.  
*Circulation Research*, 97, 1055-1062, 2005. **(Impact Factor 9.972)**

**PATAK, E., PINTO, F.M.\*, STORY, M.E., PINTADO, C.O.\*, FLEMING, A., PAGE, N.M.\*,  
PENNEFATHER, J.N.\* & CANDENAS, M.L.\***

Functional and molecular characterization of tachykinins and tachykinin receptors in the mouse uterus.  
*Biology of Reproduction*, 72, 1125-1133, 2005. **(Impact Factor 3.646)**

**PUNG, Y.F.\*, WONG, P.T.H.\*, KUMAR, P.P.\*, HODGSON, W.C. & KINI, R.M.**

Ohanin, a novel protein from king cobra venom induces hypolocomotion and hyperalgesia in mice.  
*The Journal of Biological Chemistry*, 280, 13137-13147, 2005. **(Impact Factor 6.482)**

**RAMASAMY, S., FRY, B.G.\* & HODGSON, W.C.**

Neurotoxic effects of venoms from seven species of Australasian black snakes (*Pseudechis*): efficacy of black and tiger snake antivenoms.  
*Clinical and Experimental Pharmacology and Physiology*, 32, 7-12, 2005. **(Impact Factor 1.744)**

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.\* & HODGSON, W.C.**

Pharmacologically distinct cardiovascular effects of Box jellyfish (*Chironex Fleckeri*) venom and a tentacle-only extract in rats.  
*Toxicology Letters*, 155, 219-226, 2005. **(Impact Factor 2.224)**

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.\* & HODGSON, W.C.**

The *in vivo* cardiovascular effects of Irukandji jellyfish (*Carukia Barnesi*) nematocyst venom and a tentacle extract in rats.  
*Toxicology Letters*, 155, 135-141, 2005. **(Impact Factor 2.224)**

**RAMASAMY, S., ISBISTER, G.K., SEYMOUR, J.\* & HODGSON, W.C.**

The *in vivo* cardiovascular effects of an Australian box jellyfish (*Chirosalmus sp.*) venom in rats.  
*Toxicon*, 45, 321-327, 2005. **(Impact Factor 2.020)**

**REDDROP, C.\*, MOLDRICH, R.X., BEART, P.M.\*, FARSO, M., LIBERATORE, G.T.\*,  
HOWELLS, D.W.\*, PETERSON, K.-U.\*, SCHLEUNING, W.-D.\* & MEDCALF, R.L.\***

Vampire bat salivary plasminogen activator (desmoteplase) inhibits tissue-type plasminogen activator-induced potentiation of excitotoxic injury  
*Stroke*, 36, 1241-1246, 2005. **(Impact Factor 5.748)**

**ROULSTON, C.L., LAWRENCE, A.J., WIDDOP, R.E. & JARROTT, B.**

Minocycline treatment attenuates microglia activation and non-angiotensin II [125I] CGP42112 binding in brainstem following nodose ganglionectomy

*Neuroscience*, **135**, 1241-1253, 2005. (Impact Factor 3.456).

**SATO, M. HUTCHINSON, D.S.\*, BENGTTSSON, T.\*, FLOREN, A.M.\*, LANGEL, U.\*, HORINOUCI, T., EVANS, B.A. & SUMMERS, R.J.**

Functional domains of the mouse  $\beta$ 3-adrenoceptor associated with differential G protein coupling

*Journal of Pharmacology and Experimental Therapeutics*, **315**, 1354-1361, 2005. (Impact Factor 4.337)

**STORY, M.E. & MERCER, A.\***

Selection of medical students: an Australian perspective.

*Internal Medicine Journal*, **35**, 647-649, 2005. (Impact Factor 1.037).

**TOUKHSATI, S.R.\*, RICKARD, N.S.\*, PERINI, E.\*, NG, K.T.\* & GIBBS, M.E.**

Noradrenaline involvement in the memory-enhancing effects of exposure to a complex rhythm stimulus Following discriminated passive avoidance training in the young chick.

*Behavioural Brain Research*, **159**, 105-111, 2005. (Impact Factor 2.817)

**WALTERS, P.E., GASPARI, T.A. & WIDDOP, R.E.**

Angiotensin (1-7) acts as a vasodepressor agent via angiotensin II type 2 receptors in conscious rats.

*Hypertension*, **45**, 960-966, 2005. (Impact Factor 5.630)

**WEN, S.\*, WILSON, D.T.\*, KURUPPU, S., KORSINCZKY, M.L.\*, HEDRICK, J.\*, PANG, L.\*, SZETO, T.\*, HODGSON, W.C., ALEWOOD, P.\* & NICHOLSON, G.M.\***

Discovery of an mit-like atracotoxin family: spider venom peptides that share sequence homology but not pharmacological properties with avit family proteins.

*Peptides*, **26**, 2412-2426, 2005. (Impact Factor 2.511)

**YAO, S.T. & LAWRENCE, A.J.**

A comparative autoradiographic study of the density of [<sup>3</sup>H] SR95531, [<sup>3</sup>H]MK-801 and [<sup>3</sup>H]cGMP binding in the locus coeruleus and central pontine grey of spontaneously hypertensive and Wistar-Kyoto rats.

*Naunyn-Schmiedeberg's Archives of Pharmacology*, **371**, 434-439, 2005 (Impact Factor 1.963)

**YAO, S.T., & LAWRENCE, A.J.**

Purinergic modulation of cardiovascular function in the rat locus coeruleus.

*British Journal of Pharmacology*, **145**, 342-352, 2005. (Impact Factor 3.611)

**YOU, D.\*, LOUFRANI, L.\*, BARON, C.\*, LEVY, B.I.\*, WIDDOP, R.E. & HENRION, D.\***

High blood pressure reduction reverses angiotensin II type 2 receptor-mediated vasoconstriction into vasodilation in spontaneously hypertensive rats.

*Circulation*, **111**, 1006-1011, 2005. (Impact Factor 11.164)

## **REFEREED CONFERENCE PROCEEDINGS**

**BATHGATE, R.A.\*, IVELL, R.\*, SANBORN, B.M.\*, SHERWOOD, O.D.\* & SUMMERS, R.J.**

Receptors for relaxin family peptides.

*Annals New York Academy of Sciences*, **1041**, 61-76, 2005. (Impact Factor 1.789)

**BOND, C.P., PATTY, L.J.\*, SAMUEL, C.S.\*, GEHRING, H.N.\*, LEDERMAN, F.L.\*,**

Department of Pharmacology, Monash University

5/10/2006

Page 65 of 71

**ROGERS, P.A.W.\* & SUMMERS, R.J.**

Increased expression of the relaxin receptor (LGR7) in human endometrium during the secretory phase of the menstrual cycle.

*Annals New York Academy of Sciences*, **1041**, 136-143, 2005. (Impact Factor 1.789)

**HALLS, M.L., BATHGATE, R.A.D.\*, ROCHE, P.J.\* & SUMMERS, R.J.**

Signaling pathways of the LGR7 and LGR8 receptors determined by receptor genes.

*Annals New York Academy of Sciences*, **1041**, 292-295, 2005. (Impact Factor 1.789)

**HALLS, M.L., BATHGATE, R.A.D.\*, SUDO, S.\*, KUMAGAI, J.\*, BOND, C.P. & SUMMERS, R.J.**

Identification of binding sites with differing affinity and potency for relaxin analogues on LGR7 and LGR8 receptors.

*Annals New York Academy of Sciences*, **1041**, 17-21, 2005. (Impact Factor 1.789)

**HALLS, M.L., BATHGATE, R.A.D.\* & SUMMERS, R.J.**

Signal switching after stimulation of LGR7 receptors by human relaxin 2.

*Annals New York Academy of Sciences*, **1041**, 288-291, 2005. (Impact Factor 1.789)

**SAMUEL, C.S.\*, ZHAO, C.\*, BATHGATE, R.A.D.\*, DU, X.-J.\*, SUMMERS, R.J., AMENTO, E.P.\*, WALKER, L.L.\*, MCBURNIE, M.\*, ZHAO, L.\* & TREGEAR, G.W.\*.**

The relaxin gene-knockout mouse. A model of progressive fibrosis.

*Annals New York Academy of Sciences*, **1041**, 173-181, 2005. (Impact Factor 1.789)

**TREGEAR, G.W.\*, BATHGATE, R.A.D.\*, LAYFIELD, S.\*, FERRARO, T.\*, GUNDLACH, A.\*, MA, S.\*, LIN, F.\*, HANSON, N.F.\*, SUMMERS, R.J., ROSENGREN, J.\*, CRAIK, D.J.\* & WADE, J.D.\*.**

The chemistry and biology of human relaxin-3.

*Annals New York Academy of Sciences*, **1041**, 40-46, 2005. (Impact Factor 1.789)

**VAN DER WESTHUIZEN, E.T., SEXTON, P.M.\*, BATHGATE, R.A.D.\* & SUMMERS, R.J.**

Responses of GPCR135 to human gene 3 (H3) relaxin in CHO-K1 cells determined by microphysiometry.

*Annals New York Academy of Sciences*, **1041**, 332-337, 2005. (Impact Factor 1.789)

**ABSTRACTS**

**BROWN, L.A. & LOIACONO, R.E.**

Investigation of inflammatory-mediated damage in a mouse model of Parkinson's disease.

*Proceedings of the Australian Neuroscience Society*, **16**, 133 (Pos-Tues-324), 2005.

**CAMERON, J.\*, SRITHARAN, M.\*, ZULLI, A.\*, WIDDOP, R.E., BUXTON, B.F.\*, BURRELL, L.M.\* & HARE, D.L.\***

Evidence for a functional role for angiotensin (1-7), angiotensin IV and the angiotensin II type 2 receptor in human blood vessels – a pilot study.

*Heart Lung and Circulation*, **14 Supplement 1**, S13 (Abstract 28), 2005.

**COWEN, M.S.\*, ADAMS, C. & LAWRENCE, A.J.\***

Acamprosate as an anti-craving drug: behavioural and neurochemical studies.

*Proceedings of the Australian Neuroscience Society*, **16**, 34 (Oral-07-07), 2005.

**D'AMORE, A.\*, JONES, E.S., WIDDOP, R.E. & BLACK, M.J.\***

Effect of AT<sub>1</sub> and AT<sub>2</sub> receptor antagonism on capillarisation in hypertensive hearts.

Department of Pharmacology, Monash University

5/10/2006

Page 66 of 71

*First International Conference on Frontiers in Vascular Medicine*, 90 (Poster P12), 2005.

**DEILE, M.\*, IBARRA-ALVARDO, C.\*, NEDVETSKY, P.I.\*, MÜLLER, H.\*, KEMP-HARPER, B.K., STASCH, J.-P.\* & SCHMIDT, H.H.H.W.**

Effects of nitric oxide on sGC redox states.

*First International Conference on Frontiers in Vascular Medicine*, 95 (Poster P17), 2005.

**DEILE, M.\*, IBARRA-ALVARDO, C.\*, NEDVETSKY, P.I.\*, MÜLLER, H.\*, KEMP-HARPER, B.K., STASCH, J.-P.\* & SCHMIDT, H.H.H.W.**

Effects of nitric oxide on sGC redox states.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Poster 13, 2005.

**DJOUMA, E. & LAWRENCE, A.J.\***

MTEP, an mGluR5 receptor antagonist, modulates ethanol consumption in Fawn-hooded (FH) rats.

*Proceedings of the Australian Neuroscience Society*, **16**, 33 (Oral-07-04), 2005.

**DRUMMOND, G.R., HALMOS, L.R., PANEBIANCO, L. & SELEMIDIS, S.**

A role for NADPH oxidase and NOX4 in superoxide production and proliferation in human endothelial cells.

*First International Conference on Frontiers in Vascular Medicine*, 20 (Oral 0 3), 2005.

**DUMITRASCU, R.\*, WEISSMANN, N.\*, GHOFrani, H.A.\*, BEUERLEIN, K.\*, SCHMIDT, H.H.H.W., STASCH, J.-P.\*, GNOTH, M.J.\*, SEEGER, W.\*, GRIMMINGER, F.\* & SCHERMULY, R.T.\***

Activation of soluble guanylate cyclase reverses pulmonary vascular remodeling induced by hypoxia in mice.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Poster 16, 2005.

**DUSTING, G.J.\*, JIANG, F.\*, DRUMMOND, G.R. & SELEMIDIS S.**

Suppression of NADPH oxidase activity in vascular disease and reperfusion injury.

*First International Conference on Frontiers in Vascular Medicine*, 21 (Oral 0 4), 2005.

**FEATHERBY, T.\*, MCPHERSON, C. & LAWRENCE, A.J.\***

Consequences of amphetamine use in juvenile rats: persistence into adulthood.

*Proceedings of the Australian Neuroscience Society*, **16**, 116 (Pos-Tues-256), 2005.

**GASPARI, T.A., VINH, A., DILLEY, R.J.\* & WIDDOP, R.E.**

Potential role of angiotensin peptide fragments in atherosclerosis.

*First International Conference on Frontiers in Vascular Medicine*, 34 (Oral 0 17), 2005.

**GIBBS, M.E., CAMM, E.J.\*, RODRICKS, C.L.\* & SUMMERS, R.J.**

Stress during embryonic life results in memory impairment in the chick: role of noradrenergic receptors.

*Twentyninth International Ethological Conference*, 84, 2005.

**GIBBS, M.E. & SUMMERS, R.J.**

Spatial and temporal control of memory formation by adrenoceptors.

*Avian Brain Conference*, 24, 2005.

**GIBBS, M.E. & SUMMERS, R.J.**

Spatial and temporal control of memory formation by adrenoceptors.

*Twentyninth International Ethological Conference*, 84, 2005.

**HALLS, M.L., BATHGATE, R.A.D.\* & SUMMERS, R.J.**

Analysis of two phases of C-AMP accumulation in response to activation of relaxin family peptide receptor 1 (RXFP1, LGR7).

*British Pharmacological Society, Fourth Focused Meeting on Cell Signalling*, Poster P024, 2005.

**HERTZ, L.\* & GIBBS, M.E.**

Inhibition of glycogenolysis at specific time points abolishes learning in day-old chick.

*Journal of Neurochemistry*, **94 (Supplement 1)**, 66 (Abstract W04-06), 2005.

**HODGSON, W.C.**

The pharmacology of Australasian venomous creature: once bitten dead?

*Venoms to Drugs*, Session 1 – Back to the Future-II, 2005.

**HUTCHINSON, D.S., SATO, M., EVANS, B.A., CHRISTOPOULOS, A.\* & SUMMERS, R.J.**

Signalling pathways activated by SR59230A in CHO-K1 cells stably expressing the mouse  $\beta_3$ -adrenoceptor.

*British Pharmacological Society, Fourth Focused Meeting on Cell Signalling*, Poster P071, 2005.

**INGRAM, N. & LOIACONO, R.E.**

Nicotine and antipsychotic drugs regulate nicotinic receptors in rat brain.

*Proceedings of the Australian Neuroscience Society*, **16**, 126 (Pos-Tues-295), 2005.

**IRVINE, J.C, WIDDOP, R.E. & KEMP-HARPER, B.K.**

The nitroxyl anion ( $\text{NO}^-$ ) is not susceptible to tolerance development *in vitro*.

*First International Conference on Frontiers in Vascular Medicine*, 98 (Poster P20), 2005.

**JONES, E.S., BLACK, M.J.\* & WIDDOP, R.E.**

Angiotensin  $\text{AT}_2$  receptor contributes to cardiovascular remodelling of aged SHR during chronic  $\text{AT}_1$  receptor blockade.

*First International Conference on Frontiers in Vascular Medicine*, 91 (Poster P13), 2005.

**JONES, E.S., BLACK, M.J.\* & WIDDOP, R.E.**

Angiotensin  $\text{AT}_2$  receptor stimulation enhances cardiovascular effects of chronic  $\text{AT}_1$  receptor blockade in SHR.

*Heart Lung and Circulation*, **14 Supplement 1**, S176 (Abstract 35), 2005.

**KEMP-HARPER, B.K. & FAVALORO, J.L.**

The nitroxyl anion ( $\text{NO}^-$ ): a novel regulator of sGC and vascular tone.

*First International Conference on Frontiers in Vascular Medicine*, 41 (Oral O24), 2005.

**KEMP-HARPER, B.K. & FAVALORO, J.L.**

The nitroxyl anion ( $\text{NO}^-$ ): a novel regulator of sGC and vascular tone.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Oral 3 Session 5, 2005.

**KENNON, F.E. & LOIACONO, R.E.**

Regulation of apolipoprotein E (APOE) and APOE receptors in an in vivo model of early Alzheimer's disease neurodegeneration.

*Proceedings of the Australian Neuroscience Society*, **16**, 133 (Pos-Tues-323), 2005.

**KIRSCH, M.\*, WEISSMANN, N.\*, BARBARA KEMP-HARPER, B.K., GRIMMINGER, F.\* & SCHMIDT, H.H.H.W.**

The phosphodiesterase 5 inhibitor, sildenafil, further augments the compensatory upregulation of NO-cGMP signalling in hypoxic pulmonary hypertension.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Poster 26, 2005.

**LUMSDEN, N.G.\*, KURUPPU, S.D. & HODGSON, W.C.**

Pharmacological characterisation of a neurotoxin isolated from the colubrid venom of *Rhamphiophis Oxyrhynchus*.

*Venoms to Drugs*, Poster 11, 2005.

**MCPHERSON, C. & LAWRENCE, A.J.\***

Sensitisation to amphetamine in periadolescent rats: behaviour and functional neuroanatomy.

*Proceedings of the Australian Neuroscience Society*, **16**, 116 (Pos-Tues-255), 2005.

**MILLER, A.A.\*, DRUMMOND, G.R. & SOBEY, C.G.\***

NADPH-oxidase activity and function is suppressed in the female cerebral circulation: role of estrogen.

*First International Conference on Frontiers in Vascular Medicine*, 82 (Poster P4), 2005.

**NEDVETSKAYA, T.Y.\*, NEDVETSKY, P.I.\*, SONAR, S.S.\*, MÜLLER, H.\*, SICKMANN, A.\*, SCHMIDT, P.M.\*, KRONICH, P.\*, STASCH, J.-P.\* & SCHMIDT, H.H.H.W.**

Formation of quasi-covalent sGC a 1 / b 1 -heterodimers by ODQ-induced oxidation of the prosthetic heme moiety.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Poster 40, 2005.

**ROBINSON, S. & LOIACONO, R.E.**

An investigation into the neuroprotective effects of anadamide and related cannabinoids.

*Proceedings of the Australian Neuroscience Society*, **16**, 138 (Pos-Tues-343), 2005.

**SATO, M., HUTCHINSON, D.S., BENGTSSON, T.\*, FLOREN, A.\*, LANGEL, U.\*, EVANS, B.A. & SUMMERS, R.J.**

Functional domains of the mouse  $\beta_3$ -adrenoceptor associated with differential G-protein coupling..

*British Pharmacological Society, Fourth Focused Meeting on Cell Signalling*, Poster P072, 2005.

**SCHMIDT, P.M., NEDVETSKAYA, T.Y.\*, NEDVETSKY, P.I.\*, SONAR, S.S.\*, MÜLLER, H.\*, SICKMANN, A.\*, KRONICH, P.\*, STASCH, J.P.\* & SCHMIDT, H.H.H.W.**

Identification of an unexpected ODQ-induced quaternary structure of sGC.

*First International Conference on Frontiers in Vascular Medicine*, 101 (Poster P23), 2005.

**SCHMIDT, P.M., ROTHKEGEL, C.\*, STOLL, F.\*, WUNDER, F.\*, SCHRÖDER, H.\* & STASCH, J.P.\***

Residues involved in the coordination of the heme moiety of the no sensor soluble guanylate cyclase

*First International Conference on Frontiers in Vascular Medicine*, 102 (Poster P24), 2005.

**SELEMIDIS, S., DUSTING, G.J.\*, PESHAVARIYA, H.\*, GUZIK, T.\*, CHANNON, K.\* & DRUMMOND, G.R.**

Suppression of NADPH oxidase-dependent superoxide production by nitric oxide in human endothelial cells and arteries.

*First International Conference on Frontiers in Vascular Medicine*, 66 (Oral O49), 2005.

**SOBEY, C.G.\*, DRUMMOND, G.R., & MILLER, A.A.\***

NADPH oxidase activity and function is profoundly greater in cerebral versus systemic arteries.  
*First International Conference on Frontiers in Vascular Medicine*, 62 (Oral O45), 2005.

**SOBEY, C.G.\*, DRUMMOND, G.R. & MILLER, A.A.\***

NADPH-oxidase activity and function is enhanced in the cerebral circulation and influenced by gender.  
*Journal of Cerebral Blood Flow and Metabolism*, **25**, S205, 005

**SOBEY, C.G.\*, DRUMMOND, G.R. & PARAVICINI, T.M.\***

Flow-induced cerebral vasodilatation involves activation of PI3-kinase and production of reactive oxygen species.

*Journal of Cerebral Blood Flow and Metabolism*, **25**, S162, 005

**SONAR, S.S.\*, EUCKER, T.\* & SCHMIDT, H.H.H.W.**

The elusive b 2 subunit of sGC.

*Second International Conference on cGMP: Generators, Effectors and Therapeutic Implications*, Poster 53, 2005.

**STASCH, J.P.\*, ROTHKEGEL, C.\*, KUMAR, A.H.S., WUNDER, F.\*, SCHRÖDER, H.\*, SCHMIDT, H.H.H.W. & SCHMIDT, P.M.**

NO- and heme-independent activation of soluble guanylate cyclase: biochemical and pharmacological opportunities.

*First International Conference on Frontiers in Vascular Medicine*, 38 (Oral O21), 2005.

**VAN DER WETHUIZEN, E.T., SEXTON, P.M.\* & SUMMERS, R.J.**

ERK 1/2 activation by H3 (human gene 3) relaxin acting on the relaxin family peptide receptor 3 (RXFP3; GPCR135).

*British Pharmacological Society, Fourth Focused Meeting on Cell Signalling*, Poster P076, 2005.

**VINH, A., GASPARI, T.A., WIDDOP, R.E. & DEAR, A.E.\***

Novel inhibitors of matrix metalloproteinase attenuate abdominal aortic aneurysm formation in Angiotensin II-infused Apolipoprotein E-deficient mice.

*First International Conference on Frontiers in Vascular Medicine*, 122 (Poster P44), 2005.

**VINH, A., WIDDOP, R.E. & GASPARI, T.A.**

Chronic treatment with the hexapeptide angiotensin IV improves endothelial dysfunction in apolipoprotein e-deficient mice.

*First International Conference on Frontiers in Vascular Medicine*, 60 (Oral), 2005.

**VINH, A., WIDDOP, R.E. & GASPARI, T.A.**

Chronic treatment with the hexapeptide angiotensin IV improves endothelial dysfunction in apolipoprotein e-deficient mice.

*American Heart Association Scientific Sessions 2005*, (Oral 1586), 2005.

*Published in Supplement to Circulation Vol 112, No. 17 October 25, 2005 II-314-II-315 page II-315 abstract 1586*

**WANG, K.\*, GAO, X.M.\*, MOORE, X.L.\*, GIBBS, M.E., DART, A.M.\*, DU, X.J.\* & KIRIAZIS, H.\***

Prevention of pressure overload hypertrophy with preserved function by  $\beta_1$  and  $\beta_2$  -adrenoceptor disruption.  
*Heart Lung and Circulation*, **14 Supplement 1**, S174 (Abstract 29), 2005.

**WIDDOP, R.E., WALTERS, P., WELUNGODA, I., GASPARI, T.A. & JONES, E.S.**

Are angiotensin peptide fragments endogenous AT<sub>2</sub> receptor ligands in vasculature?

*First International Conference on Frontiers in Vascular Medicine*, 33 (Oral O16), 2005.

**2004 PUBLICATIONS NOT INCLUDED IN VOLUME 25, 2004.**

**JARROTT, B.**

Contributions to drug design and development.

*Chemistry in Australia*, **April issue**, 14-17, 2004.