

COLLEGE OF SCIENCES

Animal Nutrition and Physiology

Journal Article - Research

Fox, M. T., Reynolds, G. W., Scott, I., Simcock, D. C., Simpson, H. V. (2005). Vagal and splanchnic afferent nerves are not essential for anorexia associated with abomasal parasitism in sheep. *Veterinary Parasitology*, Available online November 23, 2005 Article In Press - Corrected proof <http://dx.doi.org/10.1016/j.vetpar.2005.10.015>.

Huang, K., Ravindran, V., Li, X., Bryden, W. L. (2005). Influence of age on the apparent ileal amino acid digestibility of feed ingredients for broiler chickens. *British Poultry Science*, 46 (2), 236-245 April.

King, M. R., Ravindran, V., Morel, P. C H., Thomas, D. V., Birtles, M. J., Pluske, J. (2005). Effects of spray-dried colostrum and plasmas on the performance and gut morphology of broiler chickens. *Australian Journal of Agricultural Research*, 56 811-817.

Matuschek, M. C., Hendriks, W., McGhie, T. K., Reynolds, G. W. (2005). The jejunum is the main site of absorption for anthocyanins in mice. *Journal of Nutritional Biochemistry*, unpagged August 10 Article in press <http://dx.doi.org/10.1016/j.jnutbio.2005.04.005>.

Morel, P. C H., Lee, T. S., Moughan, P. J. (2005). Effect of feeding level, liveweight and genotype on the apparent faecal digestibility of energy and organic matter in the growing pig. *Animal Feed Science and Technology*, 126 63-74.

Morel, P. C H., Melai, J., Eady, S. L., Coles, G. D. (2005). Effect of non-starch polysaccharides and resistant starch on mucin secretion and endogenous amino acid losses in pigs. *Asian-Australasian Journal of Animal Science*, 18 (11), 1634-1641.

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Przemeck, S., Huber, A., Brown, S., Pedley, K. C., Simpson, H. V. (2005). Excretory/secretory products of sheep abomasal nematode parasites cause vacuolation and increased neutral red uptake by HeLa cells. *Parasitology Research*, 95 (3), 213-217.

Ravindran, V., Hendriks, W., Thomas, D. V., Morel, P. C H., Butts, C. A. (2005). Comparison of the ileal digestibility of amino acids in meat and bone meal for broiler chickens and growing rats. *International Journal of Poultry Science*, 4 (4), 192-196.

Ravindran, V., Hew, L. I., Ravindran, G., Bryden, W. L. (2005). Apparent ileal digestibility of amino acids in dietary ingredients for broiler chickens. *Animal Science*, 81 85-97.

Rutherford, K. J., Rogers, Q. R., Hendriks, W. (2005). Mammalian isovalthine metabolism. *Journal of Animal Physiology and Animal Nutrition*, 89 (1-2), 1-10.

Rutherford, S. M., Moughan, P. J. (2005). Digestible reactive lysine in selected milk-based products. *Journal of Dairy Science*, 88 (1), 40-48.

Simcock, D. C., Brown, S., Neale, J. D., Przemeck, S M C., Simpson, H. V. (2006). L₃ and adult *Ostertagia (Teladorsagia) circumcincta* exhibit cyanide sensitive oxygen uptake. *Experimental Parasitology*, 112 (1), 1-7 <http://dx.doi.org/10.1016/j.exppara.2005.08.005>.

Simcock, D. C., Lawton, D. E. B., Scott, I., Simpson, H. V. (2005). Abomasal bacteria produce an inhibitor of gastrin secretion in vitro. *Research in Veterinary Science*, December 13 In press, corrected proof.

Sirisatien, D., Wood, G., Morel, P. C H., Siriwithananukul, Y. (2005). Designing an optimal pig feeding schedule in Southern Thailand. *Kasetsart Journal: Natural Science*, 39 (5), 8-15.

Thomas, D. V., Ravindran, V. (2005). Comparison of layer performance in cage and barn systems. *Journal of Animal and Veterinary Advances*, 4 (5), 554-556.

Torbatinejad, N., Rutherford, S. M., Moughan, P. J. (2005). Total and reactive lysine contents in selected cereal-based food products. *Journal of Agricultural and Food Chemistry*, 53 (11), 4454-4458.

Ugarte, C. E., O'Flaherty, K. (2005). The use of a medetomidine, butorphanol and atropine combination to enable blood sampling in young pigs. *New Zealand Veterinary Journal*, 53 (4), 249-252.

Ugarte, C. E., Thomas, D. G., Gasser, R. B., Hu, M., Scott, I., Collett, M. G. (2005). *Spirometra erinacei* / *S erinaceieuropaei* in a feral cat in Manawatu with chronic intermittent diarrhoea. *New Zealand Veterinary Journal*, 53 (5), 347-351 Clinical Communication.

Conference Contribution - Full Paper In Published Proceedings- Book

Amerah, A., Ravindran, R., Lentle, R. G., Thomas, D. G. (2005). Influence of whole wheat feeding on the performance, gizzard size and carcass characteristics of broiler chickens. (pp. 63-68). In V. Ravindran (Ed.) (ed(s)). *Advancing Poultry Production: Massey Technical Update Conference*, May 7-8, Massey University, Palmerston North, NZ. Palmerston North, NZ: Massey University.

Brookes, I. M., Horne, D. J. (2005). Modelling Urine Nitrogen Production and Leaching Losses for three Contrasting Dairying Systems. (pp. 180-185). In L.D. Currie and J.A. Hanly (ed(s)). *Developments in fertiliser application technologies and nutrient management: Proceedings of the 18th Annual Workshop held by the Fertilizer and Lime Research Centre*, February 9-10, Massey University, Palmerston North, NZ. Palmerston North, NZ: Massey University, Fertilizer and Lime Research Centre.

Cumarasamy, S., Corrigan, V. K., Hedderley, D. I., Hendriks, W. H., Janz, J. A M., Morel, P. C H., Purchas, R. W., Seah, E., Wilkinson, B. H P. (2005). Sensory profile of pork is not affected by animal byproducts. (pp. 11- In J. E. Paterson (Ed.) (ed(s)). *10th Biennial Conference of the Australasian Pig Science Association*, November 27-30, Christchurch, NZ. Werribee, VIC: Australasian Pig Science Association.

Janz, J. A M., Morel, P. C H., Purchas, R. W., Wilkinson, B. H P., Hendriks, W. H. (2005). Feedstuff effects on quality and fatty acid profile of pork. (pp. 283-283). In J. E. Paterson (Ed.) (ed(s)). *10th Biennial Conference of the Australasian Pig Science Association (Inc.) (APSA)*, November 27-30, Christchurch, NZ. Werribee, VIC: Australasian Pig Science Association.

McNaughten, K. L., Morel, P. C H., Coad, J. (2006). Dietary intakes and iron status of non vegetarian women aged 18-40 years living in the Manawatu region. (pp. 115-119). In C.S. Brennan & G.P. Savage (ed(s)). *40th Annual Conference of the Nutrition Society of New Zealand*, December, Massey University, Palmerston North, NZ. Massey University, Palmerston North, NZ: Nutrition Society of New Zealand Inc.

Morel, P. C H. (2005). Particle size influences the incidence of stomach ulcers but has no effect on performance in barley-based diets for pigs. (pp. 147-147). In J. E. Paterson (Ed.) (ed(s)). *10th Biennial Conference of the Australasian Pig Science Association (Inc.) (APSA)*, November 27-30, Christchurch, NZ. Werribee, VIC: Australasian Pig Science Association.

Morel, P. C H., Janz, J. A M., Purchas, R. W., Wilkinson, B. H P., Hendriks, W. H. (2005). Pig growth performance and carcass quality is not affected by feedstuff source. (pp. 282-282). InJ. E. Paterson (Ed.) (ed(s)). *10th Biennial Conference of the Australasian Pig Science Association (Inc.) (APSA)*, November 27-30, Christchurch, NZ. Werribee, VIC: Australasian Pig Science Association.

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Conference Contribution - Full Paper In Published Proceedings- Journal

Morel, P. C H., Wood, G. R. (2005). Optimisation of nutrient use to maximize profitability and minimise nitrogen excretion in pig meat production systems. (pp. 269-275). InM. L. A. T. M. Hertog, & B. M. Nicolai (Eds.) (ed(s)). *Acta Horticulturae*, May 29-June 2, Leuven, Belgium. Leuven, Belgium: International Society for Horticultural Science (ISHS).

Ravindran, V., Sands, J S., Hruby, M., Partridge, G G. (2005). Influence of Phyzyme™ XP phytase on nutrient utilization in broilers fed diets containing graded levels of phytate. (pp. 238-241). *proceedings of the Australian Poultry Science Symposium*, February 7-9, Sydney, NSW.

Selle, P. H., Ravindran, V., Ravindran, G., Bryden, W. L. (2005). Amino acid digestibility and growth performance interactions to phytase and lysine supplementation of lysine-deficient broiler diets. (pp. 234-237). *Proceedings of the Australian Poultry Science Symposium*, February 7-9, Sydney, NSW.

Conference Contribution - Full Abstract in Published Proceedings - Book

Brookes, I. M., Gray, D. I. (2005). A farmer-based decision support system for managing pasture quality on hill country (910-910). In F. P. O'Mara, R. J. Wilkins, L. 't Mannelje, D. K. Lovett, P. A. M. Rogers, & T. M. Boland (ed(s)). *20th International Grassland Congress*, 26 June-1 July, University College Dublin, Dublin, Ireland, UK. Wageningen Academic Publishers.

Brookes, I. M., Horne, D. J. (2005). Modelling urine nitrogen production and leaching losses for pasture-based dairying systems (748-748). In F.P. O'Mara, R. J. Wilkins, L. 't Mannelje, D. K. Lovett, P. A. M. Rogers, & T. M. Boland (Eds.) (ed(s)). *20th International Grassland Congress*, June 26-July 1, University College Dublin, Dublin, Ireland, UK. Wageningen Academic Publishers.

Hendriks, W., Rutherford-Markwick, K. J., Ugarte, C. E., Rogers, Q. R. (2005). Feline excretion is modulated by testosterone (33 *WALTHAM International Nutritional Sciences Symposium*, September 15-18, Washington, DC, WA. WALTHAM.

Minson, C J., Potter, M. A., Lentle, R. G., Birtles, M. J., Thomas, D. V., Hendriks, W. (2005). Kiwi caeca - fermentative function in an insectivore (40-40). *Proceedings of the 22nd Annual Conference of the Australian and New Zealand Society for Comparative Physiology and Biochemistry (ANZSCPB)*, December 9-11, University of Otago/Otago Museum, Dunedin, NZ. Australian and New Zealand Society for Comparative Physiology.

Morel, P. C H., Coad, J. (2006). A simple nutrient partitioning model to simulate weight changes in human adults (180-180). In C.S. Brennan & G.P. Savage (ed(s)). *40th Annual Conference of the Nutrition Society of New Zealand*, December, Massey University, Palmerston North, NZ. Nutrition Society of New Zealand Inc.

Morel, P. C H., Wildbore, B. L., Brookes, I. M., Kenyon, P. R., Purchas, R. W., Ramaswami, S. (2005). A model to evaluate buying and selling policies for growing lambs on pasture (916-916). In F. P. O'Mara, R. J. Wilkins, L. 't Mannelje, D. K. Lovett, P. A. M. Rogers, & T. M. Boland (Eds.) (ed(s)). *20th International Grassland Congress*, June 26 -July 1, University College, Dublin, Ireland, UK. Wageningen Academic Publishers.

Morel, P. C H., Wildbore, B. L., Brookes, I. M., Kenyon, P. R., Purchas, R. W., Ramaswami, S. (2005). Sensitivity analysis of a growth simulation for finishing lambs (915-915). In F. P. O'Mara, R. J. Wilkins, L. 't Mannelje, D. K. Lovett, P. A. M. Rogers, & T. M. Boland (Eds.) (ed(s).). *20th International Grassland Congress*, June 26-July 1, University College Dublin, Dublin, Ireland, UK. Wageningen Academic Publishers.

Thomas, D. G., Hendriks, W., Weidgraaf, K., Cook, C. J. (2005). A novel non-invasive technology (electrosonophoresis) to measure plasma glucose levels in cats (63-63). *The WALTHAM International Nutritional Sciences Symposium*, September 15-18, Omni Shoreham Hotel, Washington DC. WALTHAM Centre for Pet Nutrition.

Wester, T. J., Morel, P. C H., Shilton, A. N. (2005). Reducing nitrogen and phosphorus excretion through diet manipulation (231-232). In J. E. Patterson (Ed.) (ed(s).). *10th Biennial Conference of the Australasian Pig Science Association*, November 27-30, Christchurch, NZ. Australasian Pig Science Association.

Conference Contribution - Full Abstract in Published Proceedings - Journal

Green, L. K., Simcock, D. C., Simpson, H. V., Page, R. A. (2005). The cloning of glutamate dehydrogenase in third-stage *Ostertagia circumcincta* (286 *New Zealand Journal of Zoology*, November 2-3, 2004, Palmerston North, NZ. The Royal Society of New Zealand.

Huber, A., Walker, L. R., Simpson, H. V., Pedley, K. C. (2004). Vacuolating effects of ES products from larval and adult *Haemonchus contortus* (279-279). *New Zealand Journal of Zoology*, November 2-3, Massey University, Palmerston North. The Royal Society of New Zealand.

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Ravindran, R., Wu, Y. B., Thomas, D. G., Thomas, D. V. (2005). Influence of whole wheat feeding on the performance and digestive tract development of broiler chickens (63-64). *Australian Poultry Science Symposium*, February 7-9, Sydney, NSW. Poultry Research Foundation.

Ravindran, V., Rutherford, S. M., Thomas, D. V. (2005). Influence of dietary peptide levels on endogenous nitrogen flow in broiler chickens (296-297). *Proceedings of Australian Poultry Science Symposium*, February 7-9, Sydney, NSW. Available from: <http://www.vetsci.usyd.edu.au/apss/Documents/APSS2005.pdf>.

Simcock, D. C., Walker, L. R., Neale, J. D., Brown, S., Simpson, H. V. (2005). Energy metabolism in *Ostertagia circumcincta*: The TGA cycle (278 *New Zealand Journal of Zoology*, November 2-3, 2004, Massey University, Palmerston North, NZ.

Thomas, D. V., Ravindran, R., Thomas, D. G. (2005). Performance, digestive tract measurements and gut morphology in broiler chickens fed diets containing maize, wheat or sorghum (61-62). *Australian Poultry Science Symposium*, February 7-9, Sydney, NSW. Poultry Research Foundation.

Walker, L. R., Simcock, D. C., Brown, S., Simpson, H. V. (2005). Energy metabolism in *Ostertagia circumcincta*: Glycolysis (278 *New Zealand Journal of Zoology*, November 2-3, 2004, Massey University, Palmerston North, NZ.

Conference Contribution - Edited Proceedings - Journal

Brookes, I. M. (2005). Proceedings of the 3rd Dairy3 Conference. (pp. 3-195). , April 11-13, Palmerston North, NZ.

Conference Contribution - Poster

Morel, P. C H., Coad, J. (2005). A simple nutrient partitioning model to simulate weight changes in human adults. *2005 Nutrition Society of New Zealand Conference*, December 6-7, , Massey University, Palmerston North, NZ.

Muhamad, N., Brown, S., Simcock, D. C., Pedley, K. C., Simpson, H. V. (2005). Glutamate metabolism in L3 *Ostertagia Circumcincta* . *20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, October 16-20, *RichText*, Christchurch, NZ.

Walker, L. R., Simcock, D. C., Pedley, K. C., Simpson, H. V., Brown, S. (2005). *Ostertagia circumcincta* phosphofructokinase: Regulatory kinetic properties. *20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, October 16-20, , Christchurch, NZ.

Conference Contribution - Oral Presentation

Amerah, A., Ravindran, R., Lentle, R. G., Thomas, D. G. (2005). Influence of whole wheat feeding on the performance, gizzard size and carcass characteristics of broiler chickens. *2005 Nutrition Society of New Zealand Conference*, December 6-7, , Massey University, Palmerston North, NZ.

Amerah, A., Ravindran, R., Lentle, R. G., Thomas, D. G. (2005). Influence of whole wheat feeding on the performance, gizzard size and carcass characteristics of broiler chickens. *Nutrition today: Health tomorrow: 2005 Nutrition Society of New Zealand Conference*, December 6-7, , Massey University, Palmerston North, NZ.

Amerah, A., Ravindran, R., Lentle, R. G., Thomas, D. G. (2005). Influence of whole wheat feeding on the performance, gizzard size and carcass characteristics of broiler chickens. *Advanced Poultry Production: Massey Technical Update Conferene*, May 7-8, , Massey University, Palmerston North, NZ.

Darragh, A. J., Lowry, D., Rutherford, S. M., Prosser, C. G., Hendriks, W. (2005). Protein quality of dairy goat milk for inclusion in infant formulas. *9th Annual Congress, Perinatal Society of Australia and New Zealand*, March 13-16, *Perinatal Society of Australia and New Zealand, 9th Annual Congress*, Adelaide, SA.

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Scott, I., Pernthaner, A., Hein, W. R., Simpson, H. V. (2005). Abomasal pH and tissue cytokine expression in sheep infected with *Ostertagia circumcincta*: the effect of dexamethasone. , October 16-20, *RichText*, Christchurch, NZ.

Simcock, D. C., Walker, L. R., Pedley, K. C., Simpson, H. V., Brown, S. (2005). Carbohydrate metabolism in *Ostertagia circumcincta* . *20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, October 16-20, *RichText*, Christchurch, NZ.

Simpson, H. V., Reinhardt, S., Scott, I. (2005). Eosinophil and neutrophil chemotactic factors in excretory/secretory products of sheep abomasal nematodes. *20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, October 16-20, *The 20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, Christchurch, NZ. Christchurch, NZ.

Thomas, D. G. (2005). Looking ahead: Companion animal nutrition. *Nutrition today: Health Tomorrow: 2005 New Zealand Nutrition Society's Conference*, December 6-7, , Massey University, Palmerston North, NZ.

Thomas, D. V., Ravindran, R., Thomas, D. G. (2005). Performance, digestive tract measurements and gut morphology in broiler chickens fed diets containing maize, wheat or sorghum. *17th Annual Australian Poultry Society Symposium*, February 7-9, , Sydney, NSW.

Walker, L. R., Simcock, D. C., Pedley, K., Simpson, H. V., Brown, S. (2005). *Ostertagia circumcincta* phosphofructokinase: Regulatory kinetic properties. *20th International Conference of the World Association for the Advancement of Veterinary Parasitology*, October 16-20, RichText, Christchurch, NZ.

Williams, P. A., Hodgkinson, S. M., Rutherford, S. M., Hendriks, W. (2005). Lysine content in commercial canine growth and maintenance diets can be severely heat damaged. *The Waltham International Nutritional Sciences Symposium*, September 15-18, *Innovations in Companion Animal Nutrition Abstracts*, Washington, DC.

Report for External Body-Commissioned

Thomas, D. G., Hendriks, W., Cook, C. J. (2005). Electrosonophoresis: A low invasive, alternative method to blood sampling in cats?. Report on a study aimed to validate the technique in cats. Ruakura Research Centre, Hamilton, NZ. Report for: HortResearch. 0 pp.

Oral Presentation - Professional

Simcock, D. C., Walker, L. R., Pedley, K. C., Simpson, H. V., Brown, S. (2005). *The lifestyle of Ostertagia circumcincta* . Presented to: RichText, School of Life Sciences, University of Tasmania, Launceston, TAS. August 26. .

Centre for Functional Genomics

Journal Article - Research

Concha, M. C., Monardes, A., Even, Y., Morin, V., Puchi, M., Imschenetzky, M., Genevriere, A M. (2005). Inhibition of cysteine protease activity disturbs DNA replication and prevents mitosis in the early mitotic cell cycles of sea urchin embryos. *Journal of Cellular Physiology*, 204 693-703
<http://www3.interscience.wiley.com/cgi-bin/jissue/110503072>.

Concha, M. C., Morin, V., Bustos, P., Genevriere, A M., Heck, M. M S., Puchi, M., Imschenetzky, M. (2005). The cysteine protease involved in male chromatin remodeling after fertilization co-localizes with α -tubulin at mitosis. *Journal of Cellular Physiology*, 202 602-607
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Takemoto, D., Jones, D. A. (2005). Membrane release and destabilization of *Arabidopsis* RIN4 following cleavage by *Pseudomonas syringae* AvrRpt2. *Molecular Plant-Microbe Interactions*, 18 (12), 1258-1268.

Conference Contribution - Full Abstract in Published Proceedings - Book

Morin, V., Concha, M. C., Puchi, M., Genevriere, A M., Imschenetzky, M. (2005). Localization of CDK2/Cyclin E after fertilization in zygotes treated with 3 amino-benzamide (3 ABA) (83 *2nd Latin-American Symposium Materno-Fetal Interaction and Placenta: From Basic to Clinical Research; and 19th Annual Meeting of the Chilean Physiological Society Joint Meeting*, November 6-9, Santiago, Chile.

Conference Contribution - Poster

May, K., Bryant, M., Zhang, X., Ambrose, B. A., Scott, B. B. (2005). Spatial and temporal In Planta expression of a bioprotective metabolite gene from *Epichloe festucae* using the GUS reporter gene. *XXIII Fungal Genetics Conference*, March 15-20, *RichText*, Asilomar Conference Center, CA.

Conference Contribution - Oral Presentation

Sarkar, A., Atapattu, A., Belikoff, E., Scott, M. J. (2005). Organization and expression of a cluster of female specific genes in the Australian sheep blowfly, *Lucilia cuprina*. *Second Research Co-ordination Meeting on the Co-ordinated Research Project: Molecular technologies to improve the effectiveness of SIT*, May 14-17, *RichText*, Vienna, Austria.

Tanaka, A. (2005). Reactive oxygen species generated by a fungal NADPH oxidase regulate hyphal differentiation and growth in *Epichloe festucae*, a mutualistic symbiont of temperate grasses. *23rd Fungal Genetics Conference*, March 15-20, , Pacific Grove, CA.

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Other - Media Interviews - Broadcast

Anderson, I. L. (2005). Analysis of DNA in individual livestock is eliminating livestock diseases from the national flocks and herds. *Rural Report*. RDN: National Radio September 5

Food

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Shadbolt, N. M., Martin, S. (Eds.). (2005). *Farm management in New Zealand*. South Melbourne, VIC: Oxford University Press.

Book - Chapter In, Research

Martin, S., Shadbolt, N. M. (2005). Conclusion. (385-387). In N. Shadbolt & S. Martin (Eds.). *Farm Management in New Zealand*. Melbourne, VIC: Oxford University Press.

Martin, S., Shadbolt, N. M. (2005). Strategic management. (95-122). In N. Shadbolt & S. Martin (Eds.). *Farm Management in New Zealand*. Melbourne, VIC: Oxford University Press.

Nicolai, B. M., Lammertyn, J., Schotsmans, W. C R., Verlinden, B. E. (2005). Gas exchange properties of fruit and vegetables. (645-677). In M.A. Rao, S.S.H. Rizvi & A.K. Datta (Eds.). *Engineering Properties of Foods*. (3rd ed.). Boca Raton, FL: CRC Press.

Shadbolt, N. M., Bywater, T. (2005). The dimensions of management. (23-41). In N. Shadbolt & S. Martin (Eds.). *Farm Management in New Zealand*. Melbourne, VIC: Oxford University Press.

Journal Article - Research

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Garnevska, E., Edwards, J., Vaughan, R. (2005). Farm diversification opportunities in Bulgaria: The perceptions of farmers in the Plovdiv region. *Journal of International Farm Management*, 3 (2), December Edition 1-14 <http://www.ifmaonline.org/pdf/journals/Garnevska%20et%20al.pdf>.

Goh, K G. T., Haisman, D. R., Archer, R. H., Singh, H. (2005). Evaluation and modification of existing methods for the quantification of exopolysaccharides in milk-based media. *Food Research International*, 38 (6), 605-613.

Goh, K G. T., Haisman, D. R., Singh, H. (2005). Development of an improved procedure for isolation and purification of exopolysaccharides produced by *Lactobacillus delbrueckii* subsp. *bulgaricus* NCFB 2483. *Applied Microbiology and Biotechnology*, 67 (2), 202-208.

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Goh, K G. T., Hemar, Y., Singh, H. (2005). Viscometric and static light scattering studies on an exopolysaccharide produced by *Lactobacillus delbrueckii* subspecies *bulgaricus* NCFB 2483. *Biopolymers*, 77 (2), 98-106.

Goh, K G. T., Ye, A., Dale, N. (2005). Characterisation of ice cream containing flaxseed oil. *International Journal of Food Science and Technology*, In press.

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Wong, M. (2005). Making new functional foods. *New Trends in Functional Foods*, November 17, , Takapuna, Auckland, NZ.

Conference Contribution - Other

Shadbolt, N. M. (2005). Working group: What matters to dairy farmers most? - 2. South America, Oceania (AR, BR, CL, PE, NZ, AU) International Farm Comparison Network: For a Better Understanding of Milk Production World-Wide May 30-June 1

Report for External Body-Commissioned

Purchas, R. W. (2005). Nutritive characteristics of venison: A literature review. Massey University, Institute of Food, Nutrition and Human Health, Palmerston North, NZ. Report for: Mat Moyes, Venison Marketing Services Manager, Deer Industry New Zealand. 26 pp.

Wham, C. A., Wall, C. R. (2005). A review of the recommendations for the introduction of complementary foods to infants. Report for Ministry of Health. Ministry of Health, Wellington, NZ. Report for: Ministry of Health. 27 pp.

Winger, R. J. (2005). A study into the level of value-added products in New Zealand food and beverage exports: 2005 update. Massey University, Institute of Food, Nutrition and Human Health, Palmerston North, NZ. Report for: New Zealand Trade and Enterprise. 21 pp.

Oral Presentation - Community

Clarke, R., Paterson, T. H J., Foster, K. D. (2005). *The effect of particle size on caking in sugar*. Presented to: NZ Sugar, Auckland, NZ. May 24. .

McIntyre, L. (2003). *Foodborne illness*. Presented to: NZFSA Consumer Forum, Wellington, NZ. March 19. .

Oral Presentation - Professional

Goh, K G. T. (2005). *Ice cream and recombining*. Presented to: International Flavours and Fragrances, Massey University, Palmerston North, NZ. August 3. .

Goh, K G. T. (2005). *Ice cream practical*. Presented to: International Flavours and Fragrances, Massey University, Palmerston North, NZ. August 4. .

Goh, K G. T., Matia-Merino, L. L. (2005). *Texture, viscosity, food formulation*. Presented to: International Flavours and Fragrances, Massey University, Palmerston North, NZ. August 2. This lecture was given twice throughout a short course.

Kelly, T. C., Holmes, C. W., Shadbolt, N. M., Kemp, P. D., Harrington, K. C., Palmer, A. S., Horne, D. J., Thatcher, A. R., Evans, G. D., Butcher, N. R., Chandler, D. J., Chesterfield, M. L., Mitchell, B. D. (2005). *Organic-Conventional dairy system trial*. Presented to: Fonterra Organic Fieldays, Palmerston North, NZ. December 7. .

Kenyon, P. R., Burke, J. L., Shadbolt, N. M. (2005). *Research in beef and dairy cattle and sheep; farm business management*. Presented to: Teagasc, Agriculture Research and Extension, Boardroom, Level 3, IVABS, Massey University. December 15. .

Lee, S J. J. (2005). *Microencapsulation: Using whey protein as wall materials*. Presented to: Massey University, Institute of Food, Nutrition and Human Health, Palmerston North, NZ. February 15. .

Matia-Merino, L. (2005). *Stabilisers, emulsifiers and acidified milks*. Presented to: IFF Dairy Products Course, Massey University, Palmerston North, NZ. August 1-5. .

McIntyre, L. (2003). *The rapid detection of enteric bacteria in foods: Small solutions to big problems*. Presented to: Environmental Science and Research Soapbox Science Seminar Series, Wellington, NZ. October 28. .

Ravindran, R. (2005). *The truth about trans-fatty acids*. Presented to: Massey University, Institute of Food and Human Health, Massey University, Palmerston North, NZ. October 19. .

Sangam, V. (2005). *Education and training is an investment and not a cost: And benefits both employer and employees*. Presented to: Northern Section of the Chartered Institute of Logistics and Transport (NZ), Western Springs, NZ. July 27. .

Shadbolt, N. M. (2005). *Equity partnerships in New Zealand farming*. Presented to: Australia / New Zealand Co-operative Leaders, Christchurch, NZ. April 5-6. .

Shadbolt, N. M. (2005). *KPIs of dairying in New Zealand and challenges for the industry*. Presented to: Uruguay Farmers and Consultants, Palmerston North, NZ. August 26. .

Shadbolt, N. M. (2005). *Principles of milk production in New Zealand*. Presented to: EMBRAPA Dairy Cattle Research Center, Minas Gerais, Brazil. August 22. .

Shadbolt, N. M. (2005). *Strategic management of New Zealand Farms*. Presented to: Royal Agriculture College, Gloucestershire, UK. November 9. .

Shadbolt, N. M. (2005). *The balanced scorecard & strategic management of New Zealand farms*. Presented to: Danish Research Institute of Food Economics, Denmark. November 8. .

Winger, R. J. (2005). *ICC [Independent Compliance Committee]*. Presented to: New Zealand Juice and Beverage Association, Waiheke Island, NZ. October 6-8. .

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Other - Concise Publications

Shadbolt, N. M. (2005). Comparison challenges. *Team Talk*. Fielding, NZ: DairyTeam Office

Trinh, K. T. (2005). CIP of solids handling equipment. *Encyclopedia of Agricultural, Food, and Biological Engineering*. New York, NY: Marcel Dekker 0824709381
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Other -Extension Activities

Schotsmans, W. C R. (2005). Ripe and ready. . Manawatu Standard Author of article (Staying Alive section) Wednesday, August 17

Thesis - Doctoral

Goh, K G. T. (2004). Isolation and characterisation of bacterial exopolysaccharides produced by *Lactobacillus delbrueckii* subsp. *bulgaricus* NCFB 2483 and *Sphingomonas elodea* ATCC 31461. Massey University, Palmerston North, NZ. 0

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Journal Article - Research

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Brennan, C. S., Cleary, L. J. (2005). The potential use of cereal (1→3,1→4) α -D-glucans as functional food ingredients. *Journal of Cereal Science*, 42 (1), 1-13.

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Rutherford-Markwick, K. J., Gill, H. S. (2005). Immunomodulating activity of protein concentrates derived from bovine milk whey in mice. *Nutritional Research*, 25 157-166.

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Simcock, D. C., Brown, S., Neale, J. D., Przemec, S M C., Simpson, H. V. (2005). L₃ and adult *Ostertagia (Teladorsagia) circumcincta* exhibit cyanide sensitive oxygen uptake. *Experimental Parasitology*, 112 (1), 1-7 Available online 29 September 2005.

Wangcharoen, W., Ngamsak, T., Wilkinson, B. H P. (2005). Influences of region, age, and gender on consumer preferences: A case study of commercial snack products. *Songklanakarin Journal of Social Sciences and Humanities*, 11 (1), 17-26.

Zhou, J. S., Rutherford, K. J., Gill, H. S. (2005). Inability of probiotic bacterial strains *Lactobacillus rhamnosus* HN001 and *Bifidobacterium lactis* HN019 to induce human platelet aggregation in vitro. *Journal of Food Protection*, 68 (11), 2459-2464.

Journal Contribution - Research - Review

Rutherford-Markwick, K. J., Rogers, Q. R., Hendriks, W. H. (2005). Mammalian isovalthine metabolism. *Journal of animal physiology and animal nutrition*, 89 1-10.

Conference Contribution - Full Paper In Published Proceedings- Book

Cleary, L. J., Brennan, C. S. (2005). The behaviour and susceptibility to degradation of barley beta-glucan in a pasta. (pp. 86-92). In C.S. Brennan & G.P. Savage (ed(s)). *Proceedings of the Nutrition Society of New Zealand: 40th Annual Conference*, December, Massey University, Palmerston North, NZ. Palmerston North, NZ: Nutrition Society of New Zealand (Inc.).

Pinnamaneni, S. K., Brennan, C. S., Nils-Asp, G. (2005). Effect of inulin and sucrose esters on reducing sugar levels of breads. (pp. 60-65). In C.S. Brennan & G.P. Savage (ed(s)). *Proceedings of the Nutrition Society of New Zealand: 40th Annual Conference*, December, Massey University, Palmerston North, NZ. Palmerston North, NZ: Nutrition Society of New Zealand (Inc.).

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Amerah, A., Ravindran, V., Lentle, R. G., Thomas, D. G. (2005). Feeding of whole wheat for broilers: Influence on performance, gizzard size and carcass characteristics. (pp. 164-169). *Proceedings of the Nutrition Society of New Zealand*, December 6-7, Palmerston North, NZ. Dunedin, NZ: Nutrition Society of New Zealand.

Brennan, C. S., Matia-Merino, M. L., Ravindran, G., Goh, K. T. (2005). The implication of fenugreek incorporation into foods on the potential glycaemic response of fenugreek fortified breads. (pp. 75-79). *Proceedings of the Nutrition Society of New Zealand*, December 6-7, Massey University, Palmerston North, NZ. Dunedin, NZ: Nutrition Society of New Zealand.

Selle, P. H., Ravindran, V., Ravindran, G., Bryden, W. L. (2005). Amino acid digestibility and growth performance interactions to phytase and lysine supplementation of lysine-deficient broiler diets. (pp. 234-237). *Proceedings of the Australian Poultry Science Symposium*,

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Perrin, C. L., Chaimbalin, J., Fuller, M. P., Brennan, C. S. (2005). The role of grain tempering in optimising the milling performance of wheat blends (561-562). In S.P. Cauvain, S.S. Salmon, & L.S. Young (Eds.) (ed(s)). *Using Cereal Science and Technology for the Benefit of Consumers: 12th International ICC Cereal and Bread Congress*, May 23-26 (2004), Harrogate, UK. Woodhead Publishers.

Samaan, J., Brennan, C. S., El-Khayat, G. H. (2005). Durum wheat pasta quality: Comparison of flour pasting and starch characteristics of new syrian *triticum durum* cultivars (568). In S.P. Cauvain, S.S. Salmon, & L.S. Young (Eds.) (ed(s)). *12th International ICC Cereal and Bread Congress: Using Cereal science and technology for the benefit of consumers*, May 23-26 (2004), Harrogate, UK. Woodhead Publishers.

Symons, L. J., Brennan, C. S. (2005). The potential of barley beta-glucans in raising the nutritional value of white wheat breads (573-574). In S.P. Cauvain, S.S. Salmon, & L.S. Young (Eds.) (ed(s)). *Using Cereal Science and Technology for the Benefit of Consumers: 12 International ICC Cereal and Bread Congress: Proceedings*, May 23-26 (2004), Harrogate, UK. Woodhead Publishing.

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Conference Contribution - Poster

Diesch, T. J., Johnson, C. B., Mellor, D. J., Lentle, R. G. (2005). Marsupial brain development: EEG in the tammar wallaby (*Macropus eugenii*). *Compassion in World Farming Trust International Conference*, March 17-18, RichText, London, UK.

Pinnamaneni, S. K., Brennan, C. S., Ravindran, G., Nils-Asp, G. (2005). The physico-chemical and nutritional implications of fenugreek additions to breads. *New Zealand Institute of Food Science and Technology Annual Conference 2005*, June 28 -30, , Christchurch, NZ.

Conference Contribution - Oral Presentation

Diesch, T. J., Johnson, C. B., Mellor, D. J., Lentle, R. G. (2005). EEG in the developing tammar wallaby (*Macropus eugenii*). *22nd Annual Conference of the Australian and New Zealand Society for Comparative Physiology and Biochemistry*, December 9-11, RichText, University of Otago and the Otago Museum, Dunedin, NZ. University of Otago, Dunedin, NZ.

Oral Presentation - Professional

Rutherford-Markwick, K. J. (2005). *Fermentation and health in monogastric animals through the use of nutraceuticals*. Presented to: Wageningen Business School, Wageningen, The Netherlands. September 30. .

Rutherford-Markwick, K. J. (2005). *The use of pre- and probiotics in the diets of cats and dogs to modulate fermentation*. Presented to: Wageningen Business School, Wageningen, The Netherlands. September 30. .

Other - Concise Publications

Ravindran, G., Bryden, W. L. (2005). Determination of tryptophan in proteins and feedstuffs by ion exchange chromatography. *Scientific Reviews*. Feedinfo News Service 17775566

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Edited Book - Research

Parry, D. A D., Squire, J. M. (Eds.). (2005). *Fibrous proteins: Coiled-coils, collagen and elastomers*. San Francisco, CA: Elsevier Academic Press.

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Book - Chapter In, Research

Parker, E. J., Scott, B. B. (2005). Indole-diterpene biosynthesis in ascomycetous fungi. (405-426). In Z. An (Eds.). *Handbook of Industrial Mycology*. New York, NY: Marcel Dekker.

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Whiting, S. N., Reeves, R. D., Richards, D. G., Johnson, M. S., Cooke, J. A., Malaisse, F., Paton, A., Smith, A. C., Angle, J. S., Chaney, R. L., Ginocchio, R., Jaffre, T., Johns, B., McIntyre, T., Purvis, O. W., Salt, D. E., Schat, H., Zhao, F. J., Baker, A. J M. (2005). Use of plants to manage sites contaminated with metals. (287-308). In M.R. Broadley & P.J. White (Eds.). *Plant Nutritional Genomics*. Oxford, UK: Blackwell Publishing.

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Ahn, M., Pietersma, A. L., Schofield, L. R., Parker, E. J. (2005). Mechanistic divergence of two closely related aldol-like enzyme-catalysed reactions. *Organic and Biomolecular Chemistry*, 3 (22), 4046-4049 Communication.

Ainscough, E. W., Brodie, A. M., Chaplin, A. B., O'Connor, J. M., Otter, C. A. (2005). Gold(I) and platinum(II) complexes with a new diphosphine ligand based on the cyclotriphosphazene platform. *Dalton Transactions*, unpaginated December 23 Advance article <http://dx.doi.org/10.1039/b517309b>.

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Turner, M. A., Cronin, S. J., Bebbington, M. S., Stewart, R. B., Neall, V. E., Smith, I. (2005). Working toward a high-precision record of Mt Taranaki eruptions and ash falls, New Zealand. *Geological Society of New Zealand 50th Annual Conference*, 28 November - 1 December, , Kaikoura NZ.

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- Barraclough, R. K., Brunton, D. H. (2005). A comparison between distance sampling, counts per unit area, and a closed population capture/recapture model for estimating bird abundances. *3rd Biennial Australasian Ornithological Conference*, December 6-10, , St Mary's Parish Centre, Blenheim, NZ.
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- Bolan, N. S. (2005). Manipulating bioavailability to manage remediation of metal contaminated soils. *Frontiers in Environmental Sciences and Engineering in India (FESEI'05)*, September 15-17, , Bharathiar University, Coimbatore, Tamil, Nadu, India.
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- Brunton, D. H. (2005). Intra-sexual selection and the role of sex-specific singing behaviours of New Zealand's bellbirds (*Anthornis melanura*). *Australasian Society for the Study of Animal Behaviour Conference 2005*, March 30 - April 2, *RichText*, Palmerston North, NZ.
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- Castro, I. C. (2005). Kiwi in the Hauraki Gulf. *Wildlife Society of the New Zealand Veterinary Association Conference*, December 1-4, , Great Barrier Island (Aotea), NZ.
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- Gray, D. I. (2005). Summer management on hill contry: insights into an "expert's" decision making. *New Zealand Grassland Association Inc 67th Annual Conference*, October 11-13, *RichText*, New Plymouth, NZ.
- Gsell, A. C., Castro, I. C. (2005). Scent-marking in birds: Is this another island story?. *XIX Annual Meeting of the Society for Conservation Biology*, July 15-19, , University of Brasilia, Brazil.
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- Holland, J. D. (2005). Satellite telemetry study of New Zealand falcon from 2002. *Raptor Workshop*, October 23, , Rotorua, NZ.
- Holmes, P., Stewart, T. M., Cavallari, B., Galea, V. J. (2005). Scenario-based e-learning using PBL-Interactive: A novel approach to problem based learning. *Effective Teaching And Learning Conference 2005*, November 3-4, , University of Queensland, St Lucia, QLD.
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- Phipps, R. A. (2005). *An interventional study*. Presented to: Clean Air Society of Australia and New Zealand Pre Conference Workshop, Hobart, TAS. Hobart, TAS, May 3. .
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- Sims, R. E H. (2005). *Combating climate change-and saving money too*. Presented to: Citizens Advice Bureau AGM, Palmerston North, NZ. August 16. .
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- Sims, R. E H. (2005). *The transition to renewable energy: Germany leads the way*. Presented to: New Zealand German Business Association, Wellington, NZ. September 21. NZGBA breakfast: 'Renewable energy in Germany'.
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