

# ANIMAL HEALTH and FOOD SCIENCES UNIT PUBLICATIONS

## Publications Animal Health and Food Sciences Unit 2005-2006

### Refereed Journal Publications

1. **Berg, T.**, Tesoriero, L and Hailstones, D.L. (2006) A multiplex real-time PCR assay for detection of *Xanthomonas campestris* from brassicas. *Letters in Applied Microbiology* 42: 624-630.
  2. **Berg, T.**, Tesoriero, L., & Hailstones, D. (2005). PCR-based detection of *Xanthomonas campestris* pathovars in *Brassica* seed. *Plant Pathology*, 54:416-27.
  3. Mohler, V.L., Heitoff, D.M., Mahan, M.J., Walker, K.H., **Hornitzky, M.**, McConnell, C.S, Shum, L.W.C.. and House, J.K. (2006) Cross-protective immunity in calves conferred by a DNA adenine methylase deficient *Salmonella enterica* serovar *Typhimurium* vaccine. *Vaccine* 24(9): 1339-1345.
  4. **Hornitzky, M** and Ghalayini, A (2006) Honey produced from genetically modified (GM) canola (*Brassica napus*) nectar will not need to be labelled as a GM food under current Australian guidelines. *Australian Journal of Experimental Agriculture* 46: 1101-1104.
  5. **Berg, T.**, Morrice, G., Suddes, H. and **Hornitzky, M** (2006) Comparison of PCR, culture and microscopy of blood smears for the diagnosis of anthrax in sheep and cattle. *Letters in Applied Microbiology* (Published on-line)
  6. **Levot, G.W. and Haque, N.M.M.** (2006). Insecticidal control of adult Small Hive Beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae) in laboratory trials. *General and Applied Entomology* 35, 1-5.
  7. **Levot, G.W. and Haque, N.M.M.** (2006). Insecticides applied to soil for the control of Small Hive Beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae) larvae. *General and Applied Entomology* 35, 23-27.
  8. **Levot, G.W. and Haque, N.M.M.** (2006). Scientific note: Disinfestation of Small Hive Beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae) infested stored honey comb by phosphine fumigation. *General and Applied Entomology* 35, 13-14.
  9. Batterham, P., Hill-William, A., **Levot, G.**, **Sales, N.** and McKenzie, J. (2006). The genetic bases of high-level resistance to diflubenzuron and low-level resistance to cyromazine in a field strain of the Australian sheep blowfly, *Lucilia cuprina* (Wiedemann)(Diptera: Calliphoridae). *Australian Journal of Entomology* 45, 87-90.
  10. Jenkins, C., **Wilton J.**, Minion, F.C., **Falconer, L.**, Walker, M.J. and **Djordjevic, S.P.** Two domains within the *Mycoplasma hyopneumoniae* cilium adhesin bind heparin". *Infection and Immunity*, Jan 2006.
  11. Burnett, T.A., Dinkla, K., Rhode, M., Chhatwal, G.S., Uphoff, C., Srivastava, M., Cordwell, S.J., Geary, S., Liao, X., Minion, F.C., Walker, M.J. and **Djordjevic, S.P.** "P159 is a proteolytically processed, surface adhesin of *Mycoplasma hyopneumoniae*: defined domains of P159 bind heparin and promote adherence to eukaryote cells". *Molecular Microbiology*, 2006.
  12. **Levings, R.S.**, Lightfoot, D., Hall, R.M. and **Djordjevic, S.P.** "Aquariums as reservoirs for multi-drug resistant *Salmonella* Paratyphi B". *Emerging Infectious Diseases*, March 2006.
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13. **Levings, R.S.**, Lightfoot, D., Elbourne, L.D.H., **Djordjevic, S.P.** and Hall, R.M.. "New Integron associated gene cassette encoding a trimethoprim resistant DfrB-type dihydrofolate reductase". *Antimicrobial Agents and Chemotherapy*, August 2006.
14. **Marsh, I.B.**, Bannantine, J.P., Paustian, M.L., Tizard, M.L. Kapur, V. and Whittington, R.J. 2006. Genomic comparison of *Mycobacterium avium* subsp. *paratuberculosis* sheep and cattle strains by microarray hybridization. *Journal of Bacteriology* 188:2290-3.
15. **Marsh, I.B.** and Whittington, R.J. 2006. Genomic diversity in *Mycobacterium avium*: single nucleotide polymorphisms between the S and C strains of *M. avium* subsp. *paratuberculosis* and with *M. a. avium*. *Molecular and Cellular Probes*. Accepted.
16. Whittington, R. J., Crockford M., **Jordan, D** and Jones, B. (2007). Herpesvirus that caused epizootic mortality in 1995 and 1998 in pilchard *Sardinops sagax neopilchardus* (Steindachner) in Australia is now endemic. *Journal of Fish Diseases*, accepted.
17. Batterhan, P., Hill-Williams, A., **Levot, G.W.**, **Sales, N.** and McKenzie, J.A. (in press). The genetic bases of high level resistance to diflubenzuron and low level resistance to cyromazine in a field-strain of the Australian sheep blowfly, *Luciilia cuprina* (Wiedemann)(Diptera: Calliphoridae). *Australian Journal of Entomology*:
18. **Berg T.**, D.L Hailstones and L. Tesoriero. 2005. PCR detection of *Xanthomonas campestris* in Brassica seed. *Plant Pathology* 54: 416-427.
19. **Berg T.**, Tesoriero L. and Hailstones D.L. "A multiplex real-time PCR assay for detection of *Xanthomonas campestris* pathovars from brassicas". In Press. *Letters in Applied Microbiology* 2005.
20. Cole, J. N., Ramirez, R. D., Currie, B. J., Cordwell, S. J., **Djordjevic, S. P.** and Walker, M. J. 2005. Surface analysis and immune reactivity of major cell-wall associated proteins of group A streptococcus. *Infect. Immun.* 73:3137-3146.
21. Eppleston J, **Reddacliff L**, Links I. 2005. Preliminary observations on the prevalence of sheep shedding *Mycobacterium avium* subsp. *paratuberculosis* after 3 years of a vaccination program for ovine Johne's disease (OJD). *Australian Veterinary Journal* 83: 637-638
22. **Haque, N.M.M. and Levot, G.W.** (2005). An improved method for laboratory rearing of the Small Hive Beetle, *Aethina tumida* Murray (Coleoptera: Nitidulidae). *General and Applied Entomology* **34**: 29-31.
23. Holm-Martin, M., **Levot, G.W. and Dawson, K.L.** (in press). Control of endoparasites of horses with a gel containing moxidectin and praziquantel. *Veterinary Record*.
24. **Hornitzky, M.A.**, Mercieca, K., Bettelheim, K. A., and **Djordjevic, S. P.** (2005). Bovine faeces from animals with gastrointestinal infections are a source of serologically diverse atypical enteropathogenic *Escherichia coli* and Shiga toxin-producing *E. coli* that commonly possess intimin. *Appl. Environ. Microbiol* 71:3405-3412.
25. **Jordan ,D.**, S.G. Morris, P. Gill, L.M. Andersen, A. Chowdhury, A.E. Stevenson, and S.A. Spence. 2005. Mass screening for antimicrobial resistant *Escherichia coli* in dairy cows in northern New South Wales. *Australian Veterinary Journal*. 83: 688-694.
26. La, T., **Collins, A.M.**, Philips, N.D., Oksa, A. and Hampson, D.J. 2005. Development of a multiplex PCR for rapid detection of *Lawsonia intracellularis*, *Brachyspira hyodysenteriae* and *B.pilosicoli* in porcine faeces. *Lett Appl. Micro.* (in-press LAM-2005-0148).
27. **Levings, R. S**, Partridge, S. R., Lightfoot, D., Hall, R. M., and **Djordjevic, S. P.** (2005). A new integron-associated gene cassette encoding a 3-N-aminoglycoside acetyltransferase. *Antimicrob. Agents Chemother.* 49:1238-1241.

28. **Levings, R. S.**, D. Lightfoot, S. R. Partridge, R. M. Hall and **S. P. Djordjevic** (2005). The genomic island SGI1 containing the multiple antibiotic resistance region of *Salmonella enterica* var. Typhimurium DT104 or variants of it is widely distributed in other *S. enterica*. *J. Bacteriol.* 187:4401-4409.
29. Lund, R.D., **Levot, G.W.** and Black, R. (in press). Changes in diazinon and diflubenzuron concentration during shower and plunge dipping of merino sheep. *Australian Journal of Experimental Agriculture*.
30. **Marsh, I. B.** and R. J. Whittington. 2005. Deletion of an mmpL gene and multiple associated genes from the genome of the S strain of *Mycobacterium avium* subsp. *paratuberculosis* identified by representational difference analysis and *in silico* analysis. *Mol Cell Probes*. IN PRESS.
31. **Marsh, I. B.**, J. P. Bannantine, M. L. Paustian, M. L. Tizard, V. Kapur, and R. J. Whittington. 2005. Genomic comparison of *Mycobacterium avium* subsp. *paratuberculosis* sheep and cattle strains by microarray hybridization. *J. Bacteriology* Submitted.
32. McLean, C., K.A. Bettelheim, A. Kuzevski, **L. Falconer** and **S.P. Djordjevic** (2005). Isolation of *Escherichia coli* O5:H-possessing genes for Shiga toxin 1, intimin-b and enterohemolysin from an intestinal biopsy from an adult case of bloody diarrhoea; evidence for two distinct O5:H-pathotypes. *J. Med. Microbiol.* 54:605-607.
33. Rathsam C., R.E. Eaton, C.L. Simpson, G.V. Browne, H.M. Dalton, **T. Berg**, D.W.S. Harty and N.A. Jacques. 2005. Up-regulation of competence- but not stress-responsive-proteins accompany an altered metabolic phenotype in *Streptococcus mutans* biofilms. *Microbiology* 151: 1823-1837.
34. **Reddacliff LA**, Beh K, McGregor H, Whittington RJ. 2005 A preliminary study of possible genetic influences on the susceptibility of sheep to Johne's disease. *Australian Veterinary Journal* 435-431
35. **Saunders V, Berg T, Reddacliff LA, Hornitzky M.** Multiplex PCR for the Detection of *Brucella ovis*, *Actinobacillus seminis* and *Histophilus somni* in ram semen. *Australian Veterinary Journal*. submitted Sept 2005.
36. Whittington, R. J., **I. B. Marsh, and L. A. Reddacliff**. 2005. Survival of *Mycobacterium avium* subsp. *paratuberculosis* in dam water and sediment. *Appl Environ Microbiol* 71:5304-8.
37. **Wu, X., Chin, J., Ghalayini, A and Hornitzky, M** (2005) Pulsed-field gel electrophoresis typing and oxytetracycline sensitivity of *Paenibacillus larvae* subsp. *Larvae* isolates of Australian origin and those recovered from honey imported from Argentina. *Journal of Apicultural Research* 44(2): 87-92.
38. **Jordan, D.**, D. Phillips, J. Sumner, S. Morris, and I. Jenson. (2007). Relationships between the density of different indicator organisms on sheep and beef carcasses and in frozen beef and sheep meat. *Journal of Applied Microbiology*, 102: 57-64.
39. Phillips, D., **D. Jordan**, S. Morris, I. Jenson, and J. Sumner. (2006). Microbiological quality of Australian sheep meat in 2004. *Meat Science*, 74: 261-266.
40. **Jordan, D.**, S. G. Morris, P. Gill, L. M. Andersen, A. Chowdhury, A. E. Stevenson, and S. A. Spence. (2005). Mass screening for antimicrobial resistant *Escherichia coli* in dairy cows in northern New South Wales. *Australian Veterinary Journal* 83: 688-694.
41. Phillips, D., **D. Jordan**, S. Morris, I. Jenson, and J. Sumner. (2005). A national survey of the microbiological quality of beef carcasses and frozen boneless beef in Australia. *Journal of Food Protection* 69:1113-1117.
42. Pointon, A., I. Jenson, **D. Jordan**, P. Vanderlinde, J. Slade, and J. Sumner. 2006. A risk profile of the Australian red meat industry: Approach and management. *Food Control* 17:712-718.

43. Sumner, J., S. Cameron, **D. Jordan**, T. Ross, A. Tan, P. Vanderlinde, and A. Pointon. 2005. A risk profile of the Australian red meat industry: hazard identification. *Food Australia* 57:333-336.
44. **Jordan, D.**, Morris, S.G., Gill, P., Andersen, L.M., Chowdhury, A., Stevenson, A.E. and Spence, S.A. (2005). Mass screening for antibiotic resistant *Escherichia coli* in dairy cows in northern New South Wales. *Australian Veterinary Journal*, 83: 688-694.
45. **Jordan, D.** (2005). Simulating the sensitivity of pooled-sample herd tests for fecal *Salmonella* in cattle. *Preventive Veterinary Medicine*, 70: 59-73.
46. **Jordan, D.**, Vancov, T. Chowdhury, A, Andersen, L.M., Jury, K., Stevenson, A.E., Morris, S.G. (2004). The relationship between concentration of a dual marker strain of *Salmonella* Typhimurium in bovine faeces and its probability of detection by immunomagnetic separation and culture. *Journal of Applied Microbiology*, 97: 1054-1062.
47. Xi-Yang Wu, Mark Walker, **Barbara Vanselow**, Ri-Liang Chao, James Chin (accepted 2006) Characterization of Mesophilic Bacilli in Faeces of Feedlot Cattle. *Journal of Applied Microbiology*. The manuscript reference number is: JAM-2005-1394.R1
48. **Vanselow, B.A.**, Krause, D.O. and McSweeney, C.S. (2005) The Shiga toxin-producing *Escherichia coli*, their ruminant hosts, and potential on-farm interventions: a review. *Australian Journal of Agricultural Research* 56: 219-244
49. Burow, L.C., Gobius, K.S., **Vanselow, B.A.** and Klieve, A.V. (2005) Rumen protozoa do not appear to act as hosts of Shiga-toxin producing *Escherichia coli* (STEC). *Letters in Applied Microbiology* 40: 117-122.
50. **Vanselow, B.A.**, Hum, S., Hornitzky, M.A., Eamens, G.J., and Quinn, K. (In press) *Salmonella* Typhimurium persistence in a Hunter Valley dairy herd. Submitted to *The Australian Veterinary Journal* Dec 2005 Accepted.
51. **Vanselow, B.A.**, Hornitzky M.A., Walker, K.H., Eamens, G.J., Bailey, G.D., Gill, P.A., Coates, K., Corney, B., Cronin, J.P., and Renilson, S. (In press) *Salmonella* serovars and on-farm risk factors in healthy slaughter-age cattle and sheep in eastern Australia. Submitted to *The Australian Veterinary Journal* Nov 2005 Accepted.

### **Book Chapters**

- McEwen, S. A., F. M. Aarestrup, and **D. Jordan**. (2005). Monitoring of antimicrobial resistance in animals: principles and practices. In F. M. Aarestrup (ed.), *Antimicrobial Resistance in Bacteria of Animal Origin. Veterinary and Public Health Aspects*, vol. 2005. American Society of Microbiology.

### **Conference proceedings**

1. Holyoake, P.K. and **Collins, A.** Proliferative Enteritis, have we learnt anything? *Proceedings of the Australian Association of Pig Veterinarians, 2005 – Gold Coast Conference*, pp141-145.
2. Kerr, C.A., Briscoe, S., **Eamens, G.E.** and Giles, L.R. 2005. Stress gene expression in growing pigs following respiratory disease challenge. *Proceedings of the 10<sup>th</sup> Biennial Conference of the Australasian Pig Science Association*. (In press).
3. **Collins, A.M.** Proliferative Enteropathy, where to from here? *Proceedings of the Australian Association of Pig Veterinarians, 2005- Gold Coast Conference*, pp 146-150.
4. Giles, L.R., James, K.J., Barker, L.J. and **Eamens, G.J.** 2005. Use of computer tomography in live pigs as an alternative to chemical carcass assessment. *Proceedings of the 10<sup>th</sup> Biennial Conference of the Australasian Pig Science Association*. (In press).

5. **Levot, G.W.** (2006). Insecticidal control of Small Hive Beetle. 8th Asian Australasian Apicultural Conference, Perth 20-24th March 2006.
6. **Levot, G.W.** (2006). Recent progress towards a refuge trap for Small Hive Beetle. NSW Apiarists' Association Conference, Forster 25-27th May 2006.
7. **Levot, G.W.** (2006). Recent progress towards a refuge trap for Small Hive Beetle. Victorian Apiarists' Association Conference, Bairnsdale 1-3rd June 2006.
8. **Levot, G.W.** (2006). Life after diazinon - what happened? NSW DPI Sheep and Wool Conference, Orange 20-21st June 2006.
9. **Jenkins, C.,** Geary, S., Gladd, M. and **Djordjevic, S.P.** 2006 IOM (International Organisation of Mycoplasmaology) Conference (Cambridge, UK) (July) "The *Mycoplasma gallisepticum* OsmC-like Protein MG1142 Resides on the Cell Surface and Binds Heparin".
10. Bazun, A.T., Burnett, T.A., **Jenkins, C.,** Walker, M.J., Minion, F.C. and **Djordjevic, S.P.** 2006 IOM (International Organisation of Mycoplasmaology) Conference (Cambridge, UK) (July) "P109 (Mhp384) is a Heparin-Binding P102 Paralog of *Mycoplasma hyopneumoniae*".
11. **Jenkins, C.** Australian Society of Microbiology, Qld, June 2006. Invited guest speaker – "Mycoplasma hyopneumoniae and Mycoplasma gallisepticum – parasites that interact with components of the host extracellular matrix".
12. Miller, Y., Holyoake, P.K., **Collins, A.** and Smits, R. 2006. Improving the performance of gilt progeny. *Proceedings of the Australian Pig Veterinarians* (in press).
13. Nielsen L.R., **Jordan D.** Modelling transmission of Salmonella Dublin. Proceedings of the DubPar Seminar, Technical University of Denmark, Copenhagen, 23 March 2007. Paper and presentation by lead author.
14. **Jordan D.** Realising the potential: Enhancing the impact of veterinary epidemiology in current and emerging food safety issues. Proceedings of the 11<sup>th</sup> Symposium of the International Society for Veterinary Epidemiology and Economics, Cairns, Australia, August 2006. **Invited lead presentation, refereed abstract and paper.**
15. Ogburn, D., **Jordan, D.** Application of epidemiological methods to evaluate faecal pollution indicators in an oyster quality assurance program. Proceedings of the 11<sup>th</sup> Symposium of the International Society for Veterinary Epidemiology and Economics, Cairns, Australia, August 2006. **Refereed abstract and paper.**
16. Whittington, R., Crockford, M., **Jordan, D.,** Jones B. Survey for herpesvirus in pilchard, a marine pelagic finfish, in Australia. Proceedings of the 11<sup>th</sup> Symposium of the International Society for Veterinary Epidemiology and Economics, Cairns, Australia, August 2006. **Refereed abstract and paper.**
17. **Jordan D.** Modelling Salmonella Dublin in the Danish dairy cattle population. Seminar presented at the Danish Institute of Food and Veterinary Research, Copenhagen, Denmark, 8 June 2006. **Invited presentation.**
18. **Jordan, D.** Antimicrobial resistant bacteria in the food supply: appraising the risk and relevance to public health. Second International Symposium on Food Safety Risk Assessment, Australian Institute of Food Science and Technology Conference, Sydney Australia, February 2006. **Invited review paper and refereed abstract.**
19. Freeman, P. and **Jordan, D.** A thirty year history of the epidemiology, diagnosis and eradication of bovine paratuberculosis in a sub-tropical environment. Control of bovine paratuberculosis. Proceedings of the 8<sup>th</sup> International Colloquium on Paratuberculosis, Copenhagen, Denmark, August 2005. **Refereed abstract and paper.**
20. **Vanselow B.A.** (2005) Human Food Safety. *E. coli, Salmonella* and *Campylobacter* in ruminants. Annual Conference of the Association of District Veterinarians of NSW. Tamworth September, 2005

21. **Vanselow, Barbara, Hornitzky Michael**, and Bailey Graham (2006) Intensification of Cattle Production Increases the Risk of Zoonotic Campylobacteriosis. **Accepted** International Symposium on Veterinary Epidemiology and Economics. August 2006 Cairns
22. **Vanselow, Barbara** (2005) *E. coli* bacteria toxic to humans: their biology and control in cattle. NSW Department of Primary Industries and CRC for Cattle and Beef Quality – Moving from Research to Industry Adoption. Coffs Harbour May 2005
23. **Vanselow, Barbara** (2005) Some thoughts on what researchers want from extension officers in the changing government work environment. NSW Department of Primary Industries and CRC for Cattle and Beef Quality – Moving from Research to Industry Adoption. Coffs Harbour May 2005
24. **Vanselow, Barbara** (2007) The Loaves and the fishes. The modern day human dietary imbalance of omega-3 and omega-6 fatty acids and the input from animal production methods. NSW DPI Beef Conference 20-23 March 2007.
25. Dukkupati VSR, Blair HT, Murray A, Garrick DJ, Whittington, RJ, **Reddacliff LA**, Eppleston J, Windsor, P. Extensive polymorphism at nine immunologically significant microsatellite marker loci in merino sheep. Third International Symposium on Genetics of Animal Health, Iowa State University, 2005, p106.
26. Eppleston J, **LA Reddacliff**, PA Windsor, RJ Whittington, S Jones. Efficacy of a killed *Mycobacterium paratuberculosis* vaccine for the control of OJD in Australian sheep flocks. Meat and Livestock Australia, Harvest Year Conference, Adelaide, Australia, December 8-9, 2005.
27. **Finlaison, D., P. Kirkland**, R. Cook and M. Srivastava. 2005. Porcine myocarditis syndrome – an update. *Proceedings of the Australian Association of Pig Veterinarians 2005-Gold Coast Conference*. pp 167-171.
28. Jensen S.O., **T. Berg**, R.A. Skurray and N. Firth. 2005. Coordinate regulation of a conjugative staphylococcal multiresistance plasmid by a global transcriptional regulator. Australian Society for Microbiology. Canberra, Australia.
29. **Levot, G. W., Young, P. Bate, I., Carrus, R.**, Michalski, W. and Shiell, B. (2005). The quest to develop a test to detect lice on sheep at shearing. *Proceedings of the NSW Department of Primary Industries Sheep and Wool Conference*, Dubbo 12-14<sup>th</sup> April 2005.
30. **Levot, G.W. and Sales, N.** (2005). Resistance to insect growth regulators in field populations of the Australian sheep blowfly, *Lucilia cuprina*. *Proceedings of the Australian Veterinary Association Scientific Conference*, Gold Coast 16-20<sup>th</sup> May 2005.
31. **Levot, G.W., Haque, N.M.M. and Hornitzsky, M.** (2005). DAN215A Using temperature manipulation to control Small Hive Beetle. RIRDC Honey bee research conference Canberra, May 2005).
32. **Levot, G.W., Haque, N.M.M. and Hornitzsky, M.** (2005). DAN216A Insecticidal control of the Small Hive Beetle. RIRDC Honey bee research conference Canberra, May 2005).
33. **Marsh I.** Review of the Molecular Biology, Microbiology, and Culture section of the 8ICP. Meat and Livestock Australia, Harvest Year Conference, Adelaide, Australia, December 8-9, 2005.
34. **Marsh I.** Whittington, R., **Reddacliff, L. and Eamens, G.** Hybridisation capture PCR and direct PCR on pooled faecal samples. Meat and Livestock Australia, Harvest Year Conference, Adelaide, Australia, December 8-9, 2005.
35. **Marsh, I. B. J. P.** Bannantine, M. L. Tizard, and R. J. Whittington. Genomic and proteomic comparative study of the sheep and cattle strains of *Mycobacterium avium* subsp. *paratuberculosis*. 8th International Colloquium on Paratuberculosis, Copenhagen, Denmark, August 8-14, 2005.

36. **Marsh, I. B.**, J. P. Bannantine, M. L. Tizard, and R. J. Whittington. Genomic and proteomic comparative study of the sheep and cattle strains of *Mycobacterium avium* subsp. *paratuberculosis*. Meat and Livestock Australia, Harvest Year Conference, Adelaide, Australia, December 8-9, 2005.
37. **Reddacliff L.**, J Eppleston, P Windsor, R Whittington, S Jones. Efficacy of a killed *Mycobacterium paratuberculosis* vaccine for the control of OJD in Australian sheep flocks. Meat and Livestock Australia, Harvest Year Conference, Adelaide, Australia, December 8-9, 2005.
38. **Reddacliff LA.** Grazing management and Ovine Johne's disease: insights from recent research into pathogenesis and epidemiology. Proceedings of the Australian Sheep Veterinary Society, Gold Coast Conference 2005;15:134-9.
39. **Reddacliff, L., Eamens, G. and Marsh I.** Improving the direct PCR test for *M. a. paratuberculosis* from sheep faeces. New South Wales, Department of Primary Industries, Sheep Conference, Dubbo, Australia, April 12-14, 2005.
40. **Reddacliff, L., Eamens, G. and Marsh I.** Improving the direct PCR test for *M. a. paratuberculosis* from sheep faeces. New South Wales, Department of Primary Industries, Sheep Conference, Dubbo, Australia, April 12-14, 2005.
41. **Saunders V, Berg T, Reddacliff LA, Hornitzky M.** Multiplex PCR for the Detection of *Brucella ovis*, *Actinobacillus seminis* and *Histophilus somni* in ram semen. Australian Veterinary Journal. submitted Sept 2005.
42. Whittington, R. J., **I. B. Marsh, and L. A. Reddacliff.** 2005. Survival of *Mycobacterium avium* subsp. *paratuberculosis* in dam water and sediment. Appl Environ Microbiol 71:5304-8.
43. **Finlaison, D., P. Kirkland, R. Cook,** M. Srivastava and P. Canfield. 2005. Investigation of porcine myocarditis syndrome by intrafoetal inoculation of pigs. *Proceedings of the University of Sydney, Faculty of Veterinary Science 2005 Post Graduate Conference.* p45.
44. **Hornitzky, M** (2005) Some important diseases and pests of honey bees and their diagnosis in Australia. *OIE Symposium "Diagnosis of Bee Diseases"* 19<sup>th</sup> -20<sup>th</sup> August 2005, Dublin, Ireland
45. **Marsh, I. B.** J. P. Bannantine, M. L. Tizard, and R. J. Whittington. Genomic and proteomic comparative study of the sheep and cattle strains of *Mycobacterium avium* subsp. *paratuberculosis*. University of Sydney, Faculty of Veterinary Science, Post Graduate Conference, Cobbitty, Australia, October 31 – November 1, 2005.
46. **Seaman, J T** (2005) The eradication of footrot in New South Wales via a Footrot Strategic Plan – almost complete. 6<sup>th</sup> International Sheep Veterinary Congress, 17-21 June 2005, Hersonissos, Crete. Pg 280-282.
47. **Scott-Orr H and Seaman J** (2006) The New South Wales Footrot Strategic Plan – a long-term successful disease control program. 11<sup>th</sup> International Symposium on Veterinary Epidemiology and Economics, Cairns 2006. Pg 201
48. **Seaman JT** (2006) The New South Wales footrot control program.. Proc Aust Sheep Veterinarians, No 16, Wagga Wagga 2006. Pg 68-70

## **Extension & Other Publications**

1. **Hornitzky, M** (2005) American foulbrood research. *Australian Bee Journal* 86(5): 10-12.
2. **Hornitzky, M** (2005) *Nosema apis* – a literature review and survey of honey bees in Australia. *Produced for the Rural Industries Research and Development Corporation.* March 2005
3. **Hornitzky, M** (2005) *Nosema* Disease – Part 1. *Honeybee News* 6(4): 30-35.
4. **Hornitzky, M** (2005) *Nosema* Disease – Part 2. *Honeybee News* 6(5): 28-30

5. **Hornitzky, M** (2005) Oxytetracycline sensitivity of *Paenibacillus larvae* subsp. *larvae* isolates. *Honeybee News* 6(2): 24
6. **Hornitzky, M** (2005) Pollen content of canola honey. *Australian Bee Journal* 86(4): 12.
7. King S. and **Hutchinson GW**. 2005. Hydatids can affect you. Agfact A0.9.43, second edition, NSW DPI, Orange, NSW, pp1-14.
8. **Levot, G.W.** (2005). Small Hive Beetle Control. Final report for DAN215A *Using temperature manipulation to control Small Hive Beetle* and DAN216A *Insecticidal control of the Small Hive Beetle*. RIRDC April 2005.
9. **Reddacliff LA**, Eppeleston J. Field evaluation of OJD control using Gudair™ vaccine. Project OJD.009. Final report. National Ovine Johne's Disease Control and Evaluation Program. Meat and Livestock Australia. April 2005.
10. **Hornitzky, M.** (2006) Literature review and survey of *Nosema apis* on honeybees in Australia. *The Australasian Beekeeper* 107(7): 295.
11. **Collins, A.** (2006). Eradication of proliferative enteropathy - Current limitations in knowledge. Proceedings of the *Australian Pig Veterinarians* (in press).
12. **Marsh, I.B.** (2006). Genomic and proteomic comparative study of the sheep and cattle strains of *Mycobacterium avium* subsp. *paratuberculosis*. University of Sydney, Faculty of Veterinary Science. Accepted subject to typographical corrections 23<sup>rd</sup> June 2006.
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