



# Faculty Member Profile

**Sheila M. Andrew**

**Associate Professor**

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ANSC 291 Animal Science Travel Course: New England Regional Dairy Travel Course

ANSC 296 Professional Internship

ANSC 298 Techniques in Dairy Farm Evaluation

ANSC 333 Current Topics in Ruminant Nutrition

SAAS 006 Principles of Animal Nutrition and Feeding

SAAS 091 Animal Science Travel Course: New England Regional Dairy Travel Course

SAAS 096 Dairy Internships

## **Awards Received:**

- 2001 - Junior Faculty Award of Merit

## **Research Interests:**

My current research program is focused in two areas: dairy cattle nutrition and milk quality. Research in the area of dairy cattle nutrition involves developing feeding systems that optimize the use of dietary energy and protein for growth and milk production, including the use of by-product feeds and evaluating methods to measure dietary adequacy. Research in the area of milk quality focuses on critical issues that affect the quality of milk at the farm level. Presently, I am evaluating the performance of antibiotic residue screening tests for the detection of antibiotic residues in milk.

Future research in the area of nutrition is to investigate the effect of breed of cattle (Holstein versus Jersey cattle) on the utilization of energy and protein for milk production. In the area of milk quality, I am planning to conduct epidemiological studies on trends in mastitis and udder health and focus research in the area of mastitis prevention.

## **Recent Publications:**

Rezamand P., T. A. Hoagland, K. M. Moyes, L. K. Silbart, and S. M. Andrew. 2007. Energy Status, Lipid-Soluble Vitamins, and Acute Phase Proteins in Periparturient Holstein and Jersey Dairy Cows with or without Sub-Clinical Mastitis. *J. Dairy Sci.* 90: 5097-5107.

Rezamand, P., S. M. Andrew, and T. A. Hoagland. 2007. The Feeding Value of Extruded Corn Grain in a Corn-silage Based Ration for High Producing Holstein Cows and Heifers during Mid-lactation. *J. Dairy Sci.* (in press)

Borm, A. A., L.K. Fox, K. E. Leslie, J. S. Hogan, S. M. Andrew, K. M. Moyes, S.P. Oliver, Y.H. Schukken, D.D. Hancock, C. T. Gaskins, W. E. Owens and C. Norman. 2006. Effects of prepartum intramammary antibiotic therapy on udder health, milk production, and reproductive performance in dairy heifers. *J. Dairy Sci.* 89:2090-2098.

Steinman, K.J., S. M. Andrew, A. A. Borm, L.K. Fox, K. E. Leslie, J.S. Hogan, S.P. Oliver, Y.H. Schukken, W. E. Owens and C. Norman. 2005. Prepartum intramammary antibiotic therapy: Effect on risk of antibiotic residues in milk from dairy heifers. Pp. 688-693 In: *Mastitis in Dairy Production*, Ed. H. Hogeveen, Wageningen Academic Publishers, The Netherlands.

A. A. Borm ., , L.K. Fox, K. E. Leslie, J.S. Hogan S. M. Andrew, S.P. Oliver, Y.H. Schukken, and D. D. Hancock, C.T. Gaskins, W.E. Owens, and C. Norman. 2005. Prepartum intramammary antibiotic therapy: Effects on udder health, milk production and reproductive performance in dairy heifers. Pp. 364-369 In: *Mastitis in Dairy Production*, Ed. H. Hogeveen, Wageningen Academic Publishers, The Netherlands.

Tian, XC, Kubota C, Sakashita K, Izaike Y, Okano R, Tabara N, Curchoe C, Jacob L, Zhang Y, Smith S, Bormann C, Xu J, Andrew S, Yang X. 2005. Meat and milk compositions of bovine clones. *Proc. Natl. Acad. Sci. USA* 102:6261-6266.

Scheifele, PM, Andrew S, Cooper, RA, Darre, M, Musiek, FE and Max, L. 2005. Indication of a Lombard vocal response in the St. Lawrence River Beluga. *J. Acoust. Soc. Am.* 117:1486-1492.

Fox, L.K., A.A. Borm, K.E. Leslie, J.H. Hogan, S.M. Andrew S.P. Oliver, Y.H. Schukken, W.E. Owens, and C. Norman. 2004. Effect of prepartum antibiotic therapy in heifers on milk production and mastitis postpartum. P. 114-121, In *Proceedings of the 43th Annual National Mastitis Council Meeting*, Charlotte, NC.

Andrew, S. M. 2002. Antibiotic Residues in Animal-Based Foods. *In: Current Topics in Food Safety in Animal Agriculture*, Iowa State University Press, Ames, IA.

Rastani, R. R., S. M. Andrew, S. A. Zinn and C. J. Sniffen. 2001. Body composition and energy balance in Jersey and Holstein dairy cows. *J. Dairy Sci.* 84:1050-1060.

Andrew, S.M. 2001. Effect of composition of colostrum and transition milk from Holstein heifers on specificity rates of antibiotic residue tests. *J. Dairy Sci.* 84:100-106

Andrew, S.M. 2000. Effect of fat and protein content of milk from individual cows on the specificity rates of antibiotic residue screening tests. *J. Dairy Sci.* 83:2992-2997.

Andrew, S.M. 1997. Antibiotic residue tests for individual cows - An update. *Proc. 36th Annual Meeting of the National Mastitis Council*, Feb 16-19. p 191-201.

Andrew, S. M., R. A. Frobish, M. J. Paape and L. J. Maturin. 1997. Evaluation of selected antibiotic residue screening tests for milk from individual cows and examination of factors affecting the probability of false positive outcomes. *J. Dairy Sci.* 80:3050-3057.