

Michael A. Ballou, Ph.D.

Department of Animal and Food Sciences
Texas Tech University
Lubbock, Texas 79409-2141

Phone: (806) 742-2805 x253; Fax: (806) 742-4003; E-mail: michael.ballou@ttu.edu

Education: B.S. in Animal Science, University of California at Davis – 2002; Ph.D. in Nutritional Biology with an Immunology emphasis, University of California at Davis – 2007.

Present Position: Assistant Professor of Animal Nutrition and Immunology, Department of Animal and Food Sciences – Texas Tech University (2007 – Present).

Professional Service: Advancement Committee, Department of Animal Science, University of California at Davis (September 2005 – June 2007); Ad hoc Reviewer - Journal of Dairy Science, Journal of Animal Science, and Livestock Science.

Professional Affiliations: American Society of Nutritional Sciences, American Society of Animal Science, American Dairy Science Association, American Registry of Professional Animal Scientists, and Comparative Nutrition Society.

Instruction:

Associate Instructor, University of California, Davis Department of Animal Science
January 2007 – March 2007

- Dairy Marketing and Processing

Instructor, Texas Tech University, Department of Animal and Food Sciences
August 2007 - Present

- Applied Animal Nutrition (undergraduate)
- Principles of Nutrition (undergraduate)
- Nutritional Biochemistry (graduate)

Publications:

Ballou, M.A., G.D. Cruz, W. Pittroff, D.H. Keisler, and E.J. DePeters. 2008. Modifying the acute phase response of Jersey calves by supplementing milk replacer with omega-3 fatty acids from fish oil. *J. Dairy Sci.* 91:3478-3487.

Ballou, M.A. and E.J. DePeters. 2008. Supplementing milk replacer with omega-3 fatty acids from fish oil on immunocompetence and health of Jersey calves. *J. Dairy Sci.* 91:3488-3500.

Ballou, M.A., E.J. DePeters, H. Perez-Monti, S.J. Taylor, and J.W. Pareas. 2008. Effect of saturation ratio of supplemental dietary fat on production performance of lactating Holstein cows in early lactation. *Prof. Anim. Sci.* 24:120-127.

Santos, J.E.P, R.L.A. Cerri, **M.A. Ballou**, G.E. Higginbotham, and J.H. Kirk. 2004. Effect of timing of first clinical mastitis occurrence on lactational and reproductive performance of Holstein dairy cows. *J. Anim. Repro.* 80:31-45.

In Review

Ballou, M.A., R.C. Gomes, and E.J. DePeters. Effects of dietary fish oil on immune competence and the pathophysiological response to an intramammary infusion of endotoxin in peripartum multiparous cows. *J Dairy Res.*

Ballou, M.A., R.C. Gomes, S.O. Juchem, and E.J. DePeters. Effects of supplemental fish oil during the peripartum period on blood metabolites and hepatic fatty acid compositions and total triacylglycerol concentrations of multiparous Holstein cows. *J. Dairy Sci.*

Abstracts and Manuscripts In Preparation

Ballou, M.A., J.G. Fadel, and E.J. DePeters. 2007. Modeling fatty acid kinetics in plasma and peripheral blood mononuclear cell phospholipids of neonatal calves fed increasing levels of fish oil. *J. Dairy Sci.* 90 Suppl. 1:M372 (Abstr.)

Oliveira, R., C. Narciso, R. Bisinotto, **M.A. Ballou**, and J.E.P. Santos. 2008. Effect of feeding polyphenols on growth, health, nutrient digestion, and immunocompetence of calves. *ASAS/ADSA.* W221 (Abstr.)

Gomes, R.C., **M.A. Ballou**, R.F. Siqueira, T.R. Stella, J.A. Negrão, R.D. Sainz, and P.R. Leme. 2008. Blood cell profiles and plasma concentrations of glucose and cortisol of Nellore steers and bulls selected for low and high residual feed intake before and following a mild stressor. *ASAS/ADSA.* TH214 (Abstr.)

Grants

Funded

Ballou, M.A., M.L. Galyean, and J.A. Carroll. 2008. Influence of energy source and level on immune status of receiving cattle. Texas Cattle Feeders Association (\$10,000; 75% contribution).

In Review

Not Funded

Ballou, M.A. 2008. Restoring vaccine efficacy of malnourished subjects through administering slow released cytokine preparations that expand peripheral dendritic cell populations (\$100,000 Bill and Melinda Gate Foundation; 100% contribution)

Ballou, M.A. and M.L. Galyean. 2008. Influence of energy source and level on immune competence and performance of preconditioning, receiving, and respiratory virus-challenged cattle (\$356,480 USDA-NRI Animal Protection and Biosecurity; 75% contribution)