

PEER REVIEWED RESEARCH ARTICLES

1. Tacoma, R., S. L. Gelsinger, Y. W. Lam, R. A. Scuderi, D. B. Ebenstein, A. J. Heinrichs, and **S. L. Greenwood**. 2017. Exploration of the bovine colostrum proteome and effects of heat treatment time on colostrum protein profile. *J. Dairy Sci.* DOI: <https://doi.org/10.3168/jds/2017-13211>.
2. Tacoma, R., J. Fields, D. B. Ebenstein, Y.-W. Lam, and **S. L. Greenwood**. 2017. Ratio of dietary rumen degradable protein to rumen undegradable protein affects nitrogen partitioning but does not affect the bovine milk proteome produced by mid-lactation Holstein dairy cows. *J. Dairy Sci.* In press. <https://doi.org/10.3168/jds.2017-12647>.
3. Bryant, R. H., M. E. Miller, **S. L. Greenwood**, and G. R. Edwards. 2017. Milk yield and nitrogen excretion of dairy cows grazing binary and multispecies pastures. *Grass Forage Sci.* 00:1-12. Doi:10.1111/gfs.12274.
4. Murdoch, B. M., G. K. Murdoch, **S. Greenwood**, and S. McKay. 2016. Nutritional influence on epigenetic marks and effect on livestock production. *Front Genet.* 7: 182.
5. Tacoma, R., J. Fields, D. Ebenstein, Y-W. Lam, and **S. L. Greenwood**. 2016. Characterization of the bovine milk proteome in early-lactation Holstein and Jersey breeds of dairy cows. *J. Proteomics.* 130: 200-210.
6. Tacoma, R., J. Fields, D. Ebenstein, Y-W. Lam, and **S. L. Greenwood**. 2016. Comparative proteomics dataset of skimmed milk samples from Holstein and Jersey dairy cattle. *Data Brief.* 6: 843-846.
7. Al-marashdeh, O., P. Gregorini, **S. L. Greenwood**, and G. Edwards. 2015. The effect of feeding maize silage 1 h or 9 h before the herbage meal on dry matter intake, milk production, nitrogen partitioning and rumen function of lactating dairy cows. *Anim. Prod. Sci.* DOI: <http://dx.doi.org/10.1071/AN14790>
8. Crookenden, M. A., K. S. Mandok, T. M. Grala, C. V. Phyn, J. K. Kay, **S. L. Greenwood**, and J. R. Roche. 2015. Source of metabolizable energy affects gene transcription in metabolic pathways in adipose and liver tissue of nonlactating, pregnant dairy cows. *J. Anim. Sci.* doi: 10.2527/jas2014-7978
9. Mandok, K. S., J. K. Kay, **S. L. Greenwood**, J. P. McNamara, M. Crookenden, R. White, S. Shields, G. R. Edwards, and J. R. Roche. 2014. Efficiency of use of metabolizable energy for body weight gain in pasture-based, nonlactating dairy cows. *J. Dairy Sci.* 97: 4639-4648.
10. Laarman, A. H., L. Dionissopoulos, O. AlZahal, **S. L. Greenwood**, M. A. Steele, and B. W. McBride. 2013. Butyrate and subacute ruminal acidosis affect abundance of membrane proteins involved with proton and short chain fatty acid transport in the rumen epithelium of dairy cows. *Am. J. Anim. Vet. Sci.* 8: 220-229.
11. Laarman, A. H., L. Dionissopoulos, O. AlZahal, M. A. Steele, **S. L. Greenwood**, J. C. Matthews and B. W. McBride. 2013. Butyrate supplementation affects mRNA abundance of genes involved in glycolysis, oxidative phosphorylation and lipogenesis in the rumen epithelium of Holstein dairy cows. *Am. J. Anim. Vet. Sci.* 8: 239-245.
12. Steele, M. A., O. AlZahal, **S. L. Greenwood**, J. C. Matthews, and B. W. McBride. 2013. Technical note: use of laser capture microdissection for the localization of tissue specific global gene expression in rumen papillae. *J. Dairy Sci.* 96: 7748-7752.
13. Priest, N. V., S. McDougall, C. R. Burke, J. R. Roche, M. Mitchell, K. L. McLeod, **S. L. Greenwood**, and S. Meier. 2013. The responsiveness of subclinical endometritis to a nonsteroidal anti-inflammatory drug in pasture-grazed dairy cows. *J. Dairy Sci.* 96: 4323-4332.
14. Mandok, K. S., J. K. Kay, **S. L. Greenwood**, G. R. Edwards, and J. R. Roche. 2013. Requirements for zero energy balance of nonlactating, pregnant dairy cows fed fresh autumn pasture are greater than currently estimated. *J. Dairy Sci.* 96: 4070-4076.

15. Dionissopoulos, L., A. H. Laarman, O. AlZahal, **S. L. Greenwood**, M. A. Steele, J. C. Plaizier, J. C. Matthews, and B. W. McBride. 2013. Butyrate-mediated genomic changes involved in non-specific host defenses, matrix remodeling and the immune response in the rumen epithelium of cows afflicted with subacute ruminal acidosis. *Am. J. Anim. Vet. Sci.* 8: 1-20.
16. Totty, V. K., **S. L. Greenwood**, R. H. Bryant, and G. R. Edwards. 2013. Nitrogen partitioning and milk production of dairy cows grazing simple and diverse pastures. *J. Dairy Sci.* 96: 141-149.
17. **Greenwood, S. L.**, G. R. Edwards, R. Harrison. 2012. Short communication: Supplementing grape marc to cows fed a pasture-based diet as a method to alter nitrogen partitioning and excretion. *J. Dairy Sci.* 95:755-758.
18. Steele, M. A., **S. L. Greenwood**, J. Croom, and B. W. McBride. 2012. An increase in dietary non-structural carbohydrate alters the structure and metabolism of the rumen epithelium in lambs. *Can. J. Anim. Sci.* 92: 123-130.
19. **Greenwood, S. L.**, O. AlZahal, N. G. Purdie, K. C. Swanson, and B. W. McBride. 2010. Plasma amino acid concentrations and mRNA expression of components related to protein degradation in lambs with nutritionally induced metabolic acidosis. *Can. J. Anim. Sci.* 90: 537-546.
20. **Greenwood, S. L.**, M. Steele, O. AlZahal, S. E. Hook, K. C. Swanson, and B. W. McBride. 2010. Differential regulation of components of the apoptotic and ubiquitin-mediated proteolytic pathway in red and white muscle type in lambs receiving increasing amounts of dietary non-structural carbohydrate. *Can. J. Anim. Sci.* 90: 421-428.
21. AlZahal, O., M. M. Or-Rashid, **S. L. Greenwood**, and B. W. McBride. 2010. Effect of subacute ruminal acidosis on milk fat concentration, yield and fatty acid profile of dairy cows receiving soybean oil. *J. Dairy Res.* 77: 376-384.
22. Xue, Y., S. F. Liao, K. W. Son, **S. L. Greenwood**, B. W. McBride, J. A. Boling, and J. C. Matthews. 2010. Metabolic acidosis in sheep alters expression of renal and skeletal muscle amino acid enzymes and transporters. *J. Anim. Sci.* 88: 707-717.
23. **Greenwood, S. L.**, O. AlZahal, K. C. Swanson, J. C. Matthews, and B. W. McBride. 2009. Influence of glutamine infusion on ubiquitin, caspase-3, cathepsins L and B, and m-calpain expression in sheep with nutritionally induced metabolic acidosis. *J. Anim. Sci.* 87:2073-2079.
24. **Greenwood, S. L.**, T. C. Wright, N. G. Purdie, J. Doelman, J. P. Cant, and B. W. McBride. 2009. Lactation induces upregulation of the ubiquitin-mediated proteolytic pathway in skeletal muscle of dairy cows but does not alter hepatic expression. *Can. J. Anim. Sci.* 89: 309-313.
25. Odongo, N. E., **S. L. Greenwood**, M. Or-Rashid, D. Radford, O. AlZahal, A. K. Shoveller, M. I. Lindinger, J. C. Matthews, and B. W. McBride. 2009. Effects of nutritionally induced metabolic acidosis with or without glutamine infusion on acid-base balance, plasma amino acids and plasma non-esterified fatty acids in sheep. *J. Anim. Sci.* 87: 1077-1084.
26. AlZahal, O., M. Or-Rashid, **S. L. Greenwood**, M. S. Douglas, and B. W. McBride. 2009. The effect of dietary fiber level on milk fat concentration and fatty acid profile of cows fed diets containing low levels of polyunsaturated fatty acids. *J. Dairy Sci.* 92: 1108-1116.
27. **Greenwood, S. L.**, N. E. Odongo, O. AlZahal, K. C. Swanson, A. K. Shoveller, J. C. Matthews, and B. W. McBride. 2008. Plasma amino acid profile and expression of the ubiquitin-mediated proteolytic pathway in lambs with induced metabolic acidosis. *J. Anim. Sci.* 86: 2651-2656.