

LIVESTOCK GENTEC PUBLICATIONS 2010 – 2014

(alphabetical)

1. Aalhus, J.L., López-Campos, Ó., Prieto, N., Rodas-Gonzalez, A.R., Dugan, M.E.R., Uttaro, B., Juárez, M. (2014) Review: Canadian Beef Grading – Opportunities to identify carcass and meat quality traits valued by consumers. *Canadian Journal of Animal Science* 94: 1-12.
2. Abo-Ismael, M.K., Kelly, M., Squires, J., Swanson, K., Bauck, S., Miller, S.P. (2013) Identification of single nucleotide polymorphisms in genes involved in digestive and metabolic processes associated with feed efficiency and performance traits in beef cattle. *Journal of Animal Science* 91: 2512-2529.
3. Abo-Ismael, M.K., Vander Voort, G., Squires, J.J., Swanson, K.C., Mandell, I.B., Liao, X., Stothard, P., Moore, S., Plastow, G., Miller, S.P. (2014) Single nucleotide polymorphisms for feed efficiency and performance in crossbred beef cattle. *BMC Genetics* 15: 14.
4. Akanno, E.C., Plastow, G., Woodward, B.W., Bauck, S., Okut, H., Wu, X.L., Sun, C., Aalhus, J.L., Moore, S.S., Miller, S.P., Wang, Z., Basarab, J.A. (2014) Reliability of molecular breeding values for Warner-Bratzler shear force and carcass traits of beef cattle-An independent validation study. *Journal of Animal Science* 92: 2896-2904.
5. Almeida, L.M., Basu, U., Khaniya, B., Taniguchi, M., Williams, J.L., Moore, S.S., Guan, L.L. (2011) Gene Expression in the Medulla Following Oral Infection of Cattle with Bovine Spongiform Encephalopathy. *Journal of Toxicology and Environmental Health A* 74: 110-126.
6. Almeida, L.M., Basu, U., Williams, J.L., Moore, S.S., Guan, L.L. (2011) Microarray analysis in caudal medulla of cattle orally challenged with bovine spongiform encephalopathy. *Genetics and Molecular Research* 10: 3948-62.
7. Anand-Ivell, R., Hiendleder, S., Viñoles, C., Martin, G.B., Fitzsimmons, C., Eurich, A., Hafen, B., Ivell, R. (2011) INSL3 in the Ruminant: A Powerful Indicator of Gender- and Genetic-Specific Feto-Maternal Dialogue. *PLoS ONE* 6: e19821.
8. Andersson, L., Plastow, G. (2011) Molecular Genetics of Coat Colour Variation p38-50 in The genetics of the pig. Ed. Rothschild, M.F., Ruvinsky, A. CABI.
9. Archile-Contreras, A.C., Cha, M.C., Mandell, I.B., Miller, S.P., Purslow, P.P. (2010) Vitamins E and C may increase collagen turnover by intramuscular fibroblasts. Potential for improved meat quality. *Journal of Agricultural and Food Chemistry* 59: 608-614.
10. Arthur, P.F., Herd, R.M., Basarab, J.A. (2010) The role of cattle genetically efficient in feed utilization in an Australian carbon trading environment. *Farm Business & Farming Systems Management* 7: 5-14.
11. Awda, B.J., Miller, S.P., Montanholi, Y.R., Vander Voort, G., Caldwell, T., Buhr, M.M., Swanson, K.C. (2013) The relationship between feed efficiency traits and fertility in young beef bulls. *Canadian Journal of Animal Science* 93: 185-192.

12. Bao, H., Kommadath, A., Plastow, G.S., Tuggle, C.K., Guan, L.L., Stothard, P. (2014) MicroRNA buffering and altered variance of gene expression in response to Salmonella infection. *PLoS ONE* 9: e94352.
13. Bao, H., Kommadath, A., Sun, X., Meng, Y., Arantes, A.S., Plastow, G.S., Guan, L.L., Stothard, P. (2013) Expansion of ruminant-specific microRNAs shapes target gene expression divergence between ruminant and non-ruminant species. *BMC Genomics* 14: 609.
14. Baron, V.S., Aasen, A., Oba, M., Dick, C.A., Salmon, D.F., Basarab, J.A., Stevenson, C.F. (2012) Swath-grazing potential for small-grain species with a delayed planting date. *Agronomy Journal* 104: 393-404.
15. Basarab, J.A., Baron, V.S., López-Campos, O., Aalhus, J., Haugen-Kozyra, K., Okine, E. (2012) Greenhouse gas emissions from calf-fed and yearling-fed beef production systems, with and without the use of growth promotants. *Animals* 2: 195-220.
16. Basarab, J.A., Beauchemin, K.A., Baron, V.S., Ominski, K.H., Guan, L.L., Miller, S.P., Crowley, J.J. (2013) Reducing GHG emissions through genetic improvement for feed efficiency: effects on economically important traits and enteric methane production. *Animal* 7 Suppl 2: 303-315.
17. Basarab J., Fitzsimmons, C., Whisnant, S., Wettemann, B. (2012) Interactions with other Traits: Reproduction and Fertility. In *Feed Efficiency in the Beef Industry* (ed. R.A. Hill) pp123-144 Wiley-Blackwell, Ames, Iowa, USA.
18. Basu, U., Almeida, L.M., Dudas, S., Graham, C.E., Czub, S., Moore, S.S., Guan, L.L. (2012) Gene expression alterations in Rocky Mountain Elk infected with Chronic Wasting Disease. *Prion* 6: 282-301.
19. Basu, U., Almeida, L.M., Olson, N.E., Meng, Y., Williams, J.L., Moore, S.S., Guan, L.L. (2011) Transcriptome analysis of the medulla tissue from cattle in response to bovine spongiform encephalopathy using digital gene expression-tag profiling. *Journal of Toxicology and Environmental Health Part A* 74: 127-137.
20. Basu, U., Guan, L.L., Moore, S.S. (2012) Functional genomics approach for identification of molecular processes underlying neurodegenerative disorders in prion diseases. *Current Genomics* 13: 369-378.
21. Basu, U., Romao, J.M., Guan, L.L. (2013) Adipogenic transcriptome profiling using high throughput technologies. *Journal of Genomics* 1: 22-28.
22. Berjanskii, M., Liang, Y., Zhou, J., Tang, P., Stothard, P., Zhou, Y., Cruz, J., MacDonell, C., Lin, G., Lu, P., Wishart, D.S. (2010) PROSESS: a protein structure evaluation suite and server. *Nucleic Acids Research* 38: W633-W640.
23. Berry, D.P., Coffey, M.P., Pryce, J.E., de Haas, Y., Løvendahl, P., Krattenmacher, N., Crowley, J.J., Wang, Z., Spurlock, D., Weigel, K., Macdonald, K., Veerkamp, R.F. (2014)

International genetic evaluations for feed intake in dairy cattle through the collation of data from multiple sources. *Journal of Dairy Science* 97: 3894-3905.

24. Berry, D.P., Crowley, J.J. (2013) Genetics of feed efficiency in dairy and beef cattle. *Journal of Animal Science* 91: 1594-1613.
25. Berry, D.P., Crowley, J.J. (2012) Residual intake and gain: a new measure of efficiency in growing cattle. *Journal of Animal Science* 90: 109-115.
26. Borowiec, A.M., Sydora, B.C., Doyle, J., Guan, L.L., Churchill, T.A., Madsen, K., Fedorak, R.N. (2012) Small bowel fibrosis and systemic inflammatory response after ileocolonic anastomosis in IL-10 null mice. *Journal of Surgical Research* 178: 147-154.
27. Canavez, F.C., Luche, D.D., Stothard, P., Leite, K.R.M., Sousa-Canavez, J.M., Plastow, G., Meidanis, J., Souza, M.A., Feijao, P., Moore, S.S., Camara-Lopes, L.H. (2012) Genome sequence and assembly of *Bos indicus*. *Journal of Heredity* 103: 342-348.
28. Case, L.A., Wood, B.J., Miller, S.P. (2012) Investigation of body surface temperature with infrared imaging and its correlation to feed efficiency in the turkey (*Meleagris gallopavo*). *Journal of Thermal Biology* 37: 397-401.
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30. Case, L.A., Wood, B.J., Miller, S.P. (2012) The investigation of ultrasound technology to measure breast muscle depth as a correlated trait to breast meat yield in turkey (*Meleagris gallopavo*). *Journal of Animal Science* 90: 3410-3417.
31. Charavaryamath, C., Fries, P., Gomis, S., Bell, C., Doig, K., Guan, L.L., Potter, A., Napper, S., Griebel, P. (2011) Mucosal changes in a long-term bovine intestinal segment model following removal of ingesta and microflora. *Gut Microbes* 2: 134-44.
32. Chen, L., Li, C., Miller, S., Schenkel, F. (2014) Multi-population genomic prediction using a multi-task Bayesian learning model. *BMC Genetics* 15: 53.
33. Chen, L., Schenkel, F., Vinsky, M., Crews Jr, D. H., Li, C. (2013) Accuracy of predicting genomic breeding values for residual feed intake in Angus and Charolais beef cattle. *Journal of Animal Science* 91: 4669-4678.
34. Chen, Y., Oba, M., Guan, L.L. (2012) Variation of bacterial communities and expression of Toll-like receptor genes in the rumen of steers differing in susceptibility to subacute ruminal acidosis. *Veterinary Microbiology* 159: 451-459.
35. Chen, Y., Penner, G.B., Li, M., Oba, M., Guan, L.L. (2011) The epithelial tissue associated bacterial diversity changes in the rumen of beef cattle during dietary transition to high grain diets. *Applied and Environmental Microbiology* 77: 5770-81.

36. Choi, J-W., Lee, K., Liao, X., Stothard, P., An, H., Ahn, S., Lee, S., Lee, S., Moore, S.S., Kim, T. (2013) Genome-wide copy number variation in Hanwoo, Black Angus and Holstein cattle. *Mammalian Genome* 24: 151-163.
37. Choi, J., Liao, X., Stothard, P., Chung, W., Jeon, H., Miller, S.P., Choi, S., Lee, J., Yang, B., Lee, K., Han, K., Kim, H., Jeong, D., Oh, J., Kim, N., Kim, T., Lee, H., Lee, S. (2014) Whole-genome analyses of Korean native and Holstein cattle breeds by massively parallel sequencing. *PLoS ONE* 9: e101127.
38. Choi, J., Liao, X., Park, S., Jeon, H., Chung, W., Stothard, P., Park, Y., Lee, J., Lee, K., Kim, S., Oh, J., Kim, N., Kim, T., Lee, H., Lee, S. (2013) Massively parallel sequencing of Chikso (Korean Brindle cattle) to discover genome-wide SNPs and InDels. *Molecules and Cells* 36: 203-211.
39. Chung, Y.H, Zhou, M., Holtshausen, L., Alexander, T.W., McAllister, T.A., Guan, L.L., Oba, M, Beauchemin, K.A. (2012) A fibrolytic enzyme additive for lactating Holstein cow diets: ruminal fermentation, rumen microbial populations and enteric methane emissions. *Journal of Dairy Science* 95: 1419-1427.
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41. Clark, M.S., Thorne, M.A.S., Toullec, J-V., Meng, Y., Guan, L.L., Seear, P., Tarling, G.A., Peck, L.S., Moore, S.S. (2011) Krill 454 pyrosequencing reveals chaperone and stress transcriptome. *PLoS ONE* 6: e15919.
42. Cruz, J., Liu, Y., Liang, Y., Zhou, Y., Wilson, M., Dennis, J.J., Stothard, P., Van Domselaar, G., Wishart, D.S. (2012) BacMap: an up-to-date electronic atlas of annotated bacterial genomes. *Nucleic Acids Research* 40: D599-D604.
43. Daetwyler, H.D., Capitan, A., Pausch, H., Stothard, P., van Binsbergen, R., Brøndum, R.F., Liao, X., Djari, A., Rodriguez, S.C., Grohs, C., Esquerré, D., Bouchez, O., Rossignol, M.N., Klopp, C., Rocha, D., Fritz, S., Eggen, A., Bowman, P.J., Coote, D., Chamberlain, A.J., Anderson, C., VanTassell, C.P., Hulsegge, I., Goddard, M.E., Guldbrandtsen, B., Lund, M.S., Veerkamp, R.F., Boichard, D.A., Fries, R., Hayes, B.J. (2014) Whole-genome sequencing of 234 bulls facilitates mapping of monogenic and complex traits in cattle. *Nature Genetics* 46: 858-865.
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48. Dodson, M.V., Hausman, G.J., Guan, L.L., Du, M., Rasmussen, T.P., Poulos, S.P., Mir, P., Bergen, W.G., Fernyhough, M.E., McFarland, D.C., Rhoads, R.P., Soret, B., Reecy, J.M., Velleman, S.G., Jiang, Z. (2010) Lipid metabolism, adipocyte depot physiology and utilization of meat animals as experimental models for metabolic research. *International Journal of Biological Science* 6: 682-690.
49. Dodson, M.V., Jiang, Z., Chen, J., Hausman, G.J., Guan, L.L., Novakofski, J., Tompson, D.P., Lorenzen, C.L., Fernyhough, M.E., Mir, P.S., Reecy, J.M. (2010) Allied industry approaches to alter intramuscular fat content and composition in beef animals. *Journal of Food Science* 75: R1-8.
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